California State University, Fullerton Master Plan Update

Draft Environmental Impact Report

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prepared for

California State University, Fullerton
800 North State College Boulevard
Fullerton, California 92081

prepared with the assistance of

Rincon Consultants, Inc.
250 East 1st Street, Suite 1400
Los Angeles, California 90012

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rincon
RINCON CONSULTANTS, INC.
Environmental Scientists | Planners | Engineers
rinconconsultants.com

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Acronyms and Abbreviations

Xxxx	xxxx
C	degrees Celsius
°F	degrees Fahrenheit
AASHTO	American Association of State Highway Transportation Officials
AB	Assembly Bill
ACUPCC	American College and University Presidents' Climate Commitment
ADT	average daily traffic
AEP	Association of Environmental Professionals
AF	acre-feet
AFY	acre-feet per year
APLU	Airport Land Use Commission
APCD	Air Pollution Control District
AQMP	Air Quality Management Plan
BACT	best available control technology
BCE	Before the Common Era
bgs	below the ground surface
BMP	best management practice
BRAM	Biological Resources Assessment Memorandum
Btu	British thermal unit
BUG	Backlight, Uplight, and Glare
CAAQS	California Ambient Air Quality Standards
CalEEMod	California Emissions Estimator Model
CalEPA	California Environmental Protection Agency
CAL FIRE	California Department of Forestry & Fire Protection
CalGreen	California Green Building Standards Code
Cal OSHA	State of California Occupational Safety and Health Administration
CalRecycle	California Department of Resources Recycling and Recovery
Caltrans	California Department of Transportation
CAP	Climate Action Plan
CAPCOA	California Air Pollution Control Officers Association
CARB	California Air Resources Board

CBC	California Building Code
CCA	Clean Air Act
CCAR	California Climate Action Registry
CCR	California Code of Regulations
CDFW	California Department of Fish and Wildlife
CEC	California Energy Commission
CEQA	California Environmental Quality Act
CERT	Community Emergency Response Team
CFRI	Complete Facility Replacement Indicated
CGS	California Geological Survey
CH4	methane
CHRIS	California Historical Resource Information System
CIWMA	California Integrated Waste Management Act
CNDDB	California Natural Diversity Data Base
CNEL	Community Noise Equivalent Level
CNPS	California Native Plant Society
CNRA	California Natural Resources Agency
CO	carbon monoxide
CO2	carbon dioxide
CO2e	carbon dioxide equivalent
CPTED	Crime Prevention Through Environmental Design
CPUC	California Public Utilities Commission
CRHR	California Register of Historic Resources
CSO	Community Service Officer
CSU	California State University
CSUF	California State University Fullerton
CWA	Clean Water Act
dB	decibels
dBA	A-weighted decibels
DOC	Department of Conservation
DOE	U.S. Department of Energy
DOF	Department of Finance
DPM	diesel particulate matter

DSA	Division of the State Architect
DTSC	Department of Toxic Substances Control
DWR	Department of Water Resources
EAP	California Energy Action Plan
EIA	Energy Information Administration
EIR	Environmental Impact Report
EMFAC	Emissions Factor
EO	Executive Order
EOP	Emergency Operations Plan
EV	electric vehicle
EUI	Energy Use Index
FCNI	Facility Condition Needs Index
FEMA	Federal Emergency Management Agency
FFD	City of Fullerton Fire Department
FHWA	Federal Highway Administration
FPD	City of Fullerton Police Department
FSD	Fullerton School District
FTA	Federal Transit Administration
FTE	Full-Time Equivalent
FUJHSD	Fullerton Unified Joint High School District
GBCI	Green Business Certification, Inc.
GHG	greenhouse gas
GGRP	Greenhouse Gas Reduction Program
GPD	gallons per day
gsf	gross square feet
GWh	gigawatt hours
GWP	global warming potentials
GWRS	Groundwater Replenishment System
HCM	Highway Capacity Manual
HFC	hydrofluorocarbons
HRSR	Historic Resources Survey Report
HVAC	heating, ventilation, and air conditioning
Hz	hertz

I-CAN	Integrating Culinary, Agriculture, and Nutrition
ICE	Immigration and Customs Enforcement
ICSUAM	Integrated California State University Administrative Manual
IPCC	Intergovernmental Panel on Climate Change
ITE	Institute of Transportation Engineers
JPA	Joint Exercise Powers Agreement
kWh	kilowatt hours
Lbs/day	pounds per day
LED	light emitting diode
LEED	Leadership in Energy and Environmental Design
Leq	equivalent noise level
Ldn	Day-Night Average Level
LEV	Low Emission Vehicle
LID	low impact development
LOFT	Library of the Future
LOS	level of service
LLC	living learning community
LSAT	Land-Surface Air Temperature
LST	Localized Significance Threshold
MBtu	million British thermal unit
MCFA	Metro Cities Fire Authority
MERV	Minimum Efficiency Reporting Value
MGD	million gallons per day
MLD	Most Likely Descendent
MMRP	Mitigation Monitoring and Reporting Program
MM	Mitigation Measure
MMT	million metric tons
MMthm	million therms
MOU	Memorandum of Understanding
MPAH	Master Plan of Arterial Highways
MPO	Metropolitan Planning Organization
mpg	miles per gallon
MS4	Municipal Separate Storm Sewer System

MSDS	Material Safety Data Sheets
MTCO2e	metric tons carbon dioxide equivalent
MW	megawatt
MWD	Metropolitan Water District of Southern California
MWELO	Model Water Efficient Landscape Ordinance
NAAQS	National Ambient Air Quality Standards
NAHC	Native American Heritage Commission
NHMLAC	National History Museum of Los Angeles County
NHPA	National Historic Preservation Act
NPS	National Park Service
N2O	nitrous oxides
NO2	nitrogen dioxide
NOP	Notice of Preparation
NOx	nitrogen oxides
NPDES	National Pollutant Discharge Elimination System
NRCS	Natural Resources Conservation Service
NRHP	National Register of Historic Places
NWI	National Wetland Inventory
OCFCD	Orange County Flood Control District
OCGB	Orange County Groundwater Basin
OCPL	Orange County Public Libraries
OCR	Orange County Register
OCSCD	Orange County Sheriff-Coroner Department
OCSD	Orange County Sanitation District
OCTA	Orange County Transit Authority
OCTAM	Orange County Regional Travel Model
OCWD	Orange County Water District
O/D	Origin/Destination
OEHHA	Office of Environmental Health Hazard Assessment
OLLI	Osher Lifelong Learning Institute
OPR	Office of Planning and Research
Pb	Lead
PCAD	Pacific Coast Architecture Database (PCAD)

PFC	perfluorocarbons
PHF	peak hour factor
PM2.5	particulate matter less than 2.5 micrometers in diameter
PM10	particulate matter less than 10 micrometers in diameter
Ppm	parts per million
PPV	Peak Particle Velocity
PRA	Paleontological Resources Assessment
PRC	Public Resources Code
PRMP	Paleontological Resources Mitigation Plan
PSD	Prevention of Significant Deterioration
Qa	alluvial deposits

Executive Summary

This Executive Summary is provided in accordance with the California Environmental Quality Act (CEQA) Guidelines Section 15123. It contains an overview of the programmatic analysis of the California State University, Fullerton, (CSUF) Physical Master Plan (Campus Master Plan). As stated in the State CEQA Guidelines Section 15123(a), "[a]n EIR shall contain a brief summary of the proposed actions and its consequences. The language of the summary should be as clear and simple as reasonably practical." CEQA Guidelines Section 15123(b) states, "[t]he summary shall identify: (1) each significant effect with proposed mitigation measures and alternatives that would reduce or avoid that effect; (2) areas of controversy known to the Lead Agency, including issues raised by agencies and the public; and (3) issues to be resolved including the choice among alternatives and whether or how to mitigate the significant effects." Accordingly, this summary includes a brief synopsis of the Campus Master Plan and identified plan alternatives, environmental impacts and mitigation, areas of known controversy, and issues to be resolved during environmental review. Table ES-3 (at the end of this section) summarizes potential environmental impacts from implementation of the Campus Master Plan, mitigation measures that could reduce significant impacts, and the levels of significance following the implementation of mitigation measures.

Project Synopsis

This EIR has been prepared to examine the potential environmental effects of the Campus Master Plan. The following is a summary of the full project description, which can be found in Section 2.0, *Project Description*.

Project Location

The project site is the campus of CSUF, which is located at 800 North State College Boulevard in the City of Fullerton, Orange County, California. The campus is bounded by Yorba Linda Boulevard to the north, Nutwood Avenue to the south, State Route 57 (SR 57) (the Orange Freeway) to the east, and North State College Boulevard to the west. Three smaller areas are also part of the campus immediately to the north, south, and west of the main campus. The campus is located in the northern portion of Orange County and in the eastern portion of the City of Fullerton, about 1,000 feet west of the Placentia city limit, two miles northeast of downtown Fullerton, and 3.25 miles northeast of downtown Anaheim. The campus encompasses approximately 240 acres. The area surrounding the campus is developed with residential uses, educational institutions, and mixed commercial uses. The campus is bisected by Gymnasium Campus Drive and is characterized by a central core of academic buildings in its southern half, with athletic facilities, residential housing, the Fullerton Arboretum, and parking areas located primarily in the northern portion of the campus.

Background and Project Need

The original CSUF campus was founded in 1957 and officially became part of the California State University (CSU) system in June 1972 (CSUF 2017). Today, CSUF is the second largest university in the CSU system (CSU 2019) with total full-time equivalency students (FTES) increasing from 25,000 to 32,000 by 2039 at an increasing rate of one percent annually. The footprint of the university has expanded over time to accommodate an exponential increase in student enrollment, with several

facilities developed in the last decade. The 2003 Master Plan, currently in effect, is now outdated and inadequate for the university's growing student enrollment. The Campus Master Plan provides a framework for managing future campus growth and needs, as well as the campus's relationship with the City.

Many of the current facilities on campus are overdue for renovations and improvements to fit the needs of the growing campus population. The Campus Master Plan will provide a guideline for improving existing facilities and guiding new construction through 2040, including the improvement of recreational facilities and academic buildings, the addition of on campus housing, and improvement of multi-modal circulation. Through gradual phased development, the goal of the Campus Master Plan is to create an enjoyable experience for students, staff, and visitors.

Project Goals and Objectives

The Campus Master Plan focuses on CSUF's commitment to student success while guiding the physical growth on campus needed to accommodate an expanding and thriving campus population. CSUF's commitment to its students is underlined in the Campus Master Plan through the inclusion of the following overarching goals:

- Serve the future of society by providing a robust and relevant education.
- Improve graduation rates.
- Support problem-based learning.
- Promote research as learning and basic research as vital components of this knowledge-based community.
- Promote cross discipline collaboration.
- Increase quality student/professional interaction.
- Build community connection and support.

To accomplish these goals, the Campus Master Plan presents strategies that balance programmatic and behavioral needs with the physical identify for the campus and its built environment, to educate a future student enrollment of 32,000 FTES. The following project objectives have been established in support of the larger goals:

- Enable the university to accommodate incremental planned enrollment growth in the future as required by the CSU.
- Construct new academic facilities that can house programs to fulfill the pedagogic needs of the future and contribute to meeting demand created by planned enrollment growth.
- Improve the connectivity and cohesion of physical spaces on campus and with improved linkages to Downtown Fullerton and public transit.
- Enable the campus to function as a 24-hour hub for student life through increased building density with amenities and access to goods and services in the campus core, the addition of student beds, informal and after-hours work spaces for students, and improved nighttime security.
- Restore the Green Loop that circumnavigates the campus to better function as an organizing feature for academic facilities and open space.
- Increase the density of academic facilities in the campus core to support program growth and change and enable cross-disciplinary collaboration in a space-efficient manner.

- Develop an Innovation Hub that allows students to experiment with processes and prototypes for the future, to serve all sectors of society.
- Establish an event center on campus for daily use by the entire campus community.
- As the campus resumes primary responsibility for management of the Arboretum, balance preservation of its natural and historic resources, protection of its function as a place of solitude and reflection for campus and community members, and enhancement of its use for academic purposes.
- Provide an additional 2,400 student beds and a range of residential options and associated amenities on campus, to support improved rates of retention and graduation for freshman and other students.
- Provide 350 units of faculty housing.
- Improve alternative, multimodal access to campus and reduce reliance on personal vehicle use and parking demand.
- Replace and improve storm management infrastructure to reduce the incidence of flooding.
- Incorporate resilience into the Campus Master Plan through emergency management planning and established locations for emergency operation centers and material storage.

Project Characteristics

Development under the Campus Master Plan would include approximately 3,000 new student beds (600 of which are part of a separate project not included in the Campus Master Plan and are not analyzed in this EIR), and 350 residential units for faculty/staff. This equates to approximately 803,880 gross square feet (gsf) of new residential housing and 539,000 gsf of faculty/staff housing. In addition, the Campus Master Plan would add approximately 881,526 gsf of academic administrative and support space, 40,000 gsf of non-academic support space, two additional parking structures totaling approximately 1,677,374 gsf, and a 6,000-seat event center. A full description of all components included in the Campus Master Plan is included in Section 2, *Project Description*.

Alternatives

CEQA Guidelines Section 15126.6, as amended, mandates that all EIRs include a comparative evaluation of the proposed plan with alternatives to the plan that can attain most of the plan's basic objectives but would avoid or substantially lessen any of the significant effects of the plan. CEQA requires an evaluation of a "range of reasonable" alternatives, including the "no project" alternative. The following provides brief descriptions of the alternatives evaluated in this EIR.

- Alternative 1: No Project – No Development
- Alternative 2: Reduced Enrollment and Academic Space
- Alternative 3: Increased Student Housing

Alternative 1 (No Project) would continue implementation of the 2003 Master Plan. Planned development as expressed in the 2003 Master Plan, primarily new academic/administrative space, would continue up to its planed capacity. This alternative would assume the same student growth rate as projected in the Campus Master Plan.

Alternative 2 (Reduced Academic Space Alternative) would not alter the components of the Campus Master Plan, except for a 25 percent reduction in square footage of constructed academic space.

Alternative 3 (Increased Student Housing Alternative) would not alter the components of the Campus Master Plan but would double the number of planned student beds from 3,000 to 6,000. The additional 3,000 beds would be implemented by increasing the number of floors in three of the housing clusters. The number of proposed staff/faculty housing units would remain in the same as the Campus Master Plan.

Based on the analysis discussed in Section 6.0, *Alternatives,* in this EIR, Alternative 1 (No Project-No Development) would result in the fewest potential environmental impacts and is considered the environmentally superior alternative. As required by the CEQA Guidelines (California Code of Regulations Section 15126.6 [e][2]), because the environmentally superior alternative was identified as the No Project Alternative, another environmentally superior alternative must be identified among the other alternatives considered. Alternatives 2 and 3 would result in environmental effects, of varying degrees of severity in relation to those of the Campus Master Plan. The environmental impact differences between these two alternatives are not substantial enough that one is clearly superior to the other.

Areas of Known Controversy

CSUF circulated a Notice of Preparation (NOP) of the EIR for a 30-day agency and public review period starting on August 30, 2019 and ending on October 3, 2019. CSUF distributed the NOP to the State Clearinghouse, responsible agencies, and other interested parties. CSUF held an EIR Public Scoping Meeting on September 19, 2019, to provide information about the Campus Master Plan and the CEQA process to members of public agencies, interested stakeholders, and residents/community members.

CSUF received comments during the Public Scoping Meeting, via email, and letters from four public agencies. Appendices A and B of this EIR present the NOP and all comments received during the 30-day review period. Information on how each comment is addressed in the EIR is summarized in Section 1.0, *Introduction*.

Comments focused on the following areas of concern:

- Traffic congestion on local streets and SR 57
- Multi-modal transportation planning and accommodations
- Transportation connections to/from campus
- Lack of on-campus parking and impacts on nearby residential streets
- Age/deterioration of campus buildings
- Water conservation
- Lack of shade on campus
- Removal of existing trees to facilitate development
- Heat island effect (rising outdoor temperature due to increasing building density and impervious surfaces)
- Impact of the Event Center on nearby residential neighborhoods
- Prioritization of student housing

- Planning for utility upgrades to serve increased number of students
- Access to campus facilities for aging population and those with mobility issues

Summary of Impacts and Mitigation Measures

Table ES-1 the environmental impacts of the Campus Master Plan, mitigation measures, and residual impacts (the impact after application of mitigation, if required). Impacts are categorized as follows:

- **Significant and Unavoidable.** An impact that cannot be reduced to below the threshold level given reasonably available and feasible mitigation measures. Such an impact requires a Statement of Overriding Considerations to be issued if the Campus Master Plan is approved, per Section 15093 of the CEQA Guidelines.
- **Less than Significant with Mitigation Incorporated.** An impact that can be reduced to below the threshold level given reasonably available and feasible mitigation measures. Such an impact requires findings under Section 15091 of the CEQA Guidelines.
- **Less than Significant.** An impact that may be adverse but does not exceed the threshold level and does not require mitigation measures. However, mitigation measures that could further lessen the adverse environmental effect may be suggested if readily available and easily achievable.
- **No Impact:** The Campus Master Plan would have no effect on environmental conditions or would reduce existing environmental problems or hazards.

Table ES-1 Summary of Environmental Impacts, Mitigation Measures, and Residual Impacts

Impact	Mitigation Measure (s)	Residual Impact
Aesthetics		
Impact AES-1. Development of the Campus Master Plan would alter the visual character of the vacant subject site by introducing a cluster of multi-story buildings that differ from the suburban, industrial, and commercial forms on adjacent parcels. While the change would be substantial, the existing visual character and quality of the site and its surroundings would not be substantially degraded because of Campus Master Plan implementation. The proposed buildings and landscaping would adhere to the City's design guidelines and contribute to the city policies related to aesthetics, bringing about an improvement to existing unmaintained parcels. Impacts would be less than significant.	None required.	Less than significant.

Impact	Mitigation Measure (s)	Residual Impact
Impact AES-2. Development of the Campus Master Plan would not substantially damage scenic resources, including but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway.	None required.	Less than significant.
Impact AES-3. Development of the Campus Master Plan would not substantially degrade the existing visual character or quality of public views of the site and its surroundings. Additionally, the Campus Master Plan would not conflict with applicable zoning and other regulations governing scenic quality?	None required.	Less Than significant.
Agriculture and Forestry		
Impact AGR-1. The Campus Master Plan would not convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use. The campus does not contain Farmland, Unique Farmland, or Farmland of Statewide Importance.	None required.	No Impact.
Impact AGR-2. Development of the Campus Master Plan would not conflict with existing zoning for agricultural use or a Williamson Act contract. There are no active Williamson Act contracts associated with the campus.	None required.	No impact.
Impact AGR-3. The Campus Master Plan would not conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code Section 12220(g)); timberland (as defined by Public Resources Code Section 4526); or timberland zoned Timberland Production (as defined by Government Code Section 51104(g).	None required.	No impact.

Impact	Mitigation Measure (s)	Residual Impact
Impact AGR-4. Development of the Campus Master Plan would not result in the loss of forest land or conversion of forest land to non-forest use.	None required.	No impact.
Impact AGR-5. The Campus Master Plan does not involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland to non-agricultural use or conversion of forest land to non-forest use.	None required.	No impact.
Air Quality		
Impact AQ-1. Implementation of the Campus Master Plan would not generate population, housing, or employment growth exceeding forecasts used in the development of the 2016 AQMP. However, operation would exceed the SCAQMD thresholds for ozone precursors (ROG and NOX) that the AQMP provides strategies and measures to reach attainment with. With implementation of mitigation measures, the Campus Master Plan would still exceed SCAQMD thresholds for these pollutants. Therefore, impacts are significant and unavoidable.	**AQ-1 Green Cleaning Production Education Program.** CSUF shall develop a Green Cleaning Product education program to be made available at housing offices, educational areas, and/or on websites. The education program is intended for students and institutional consumers and consists of: (1) provision of educational materials in housing offices, educational areas, and/or on websites, about low ROG/VOC consumer products for planned housing and academic uses, (2) educational materials addressing the use of detergents; cleaning compounds; polishes; floor finishes; cosmetics; personal care products; home, lawn and garden products; disinfectants; sanitizers; aerosol paints; automotive specialty products; low ROG/VOC paints and architectural coatings; and low emission landscape equipment, and (3) Educational materials on the importance of recycling and purchasing recycled material.	With implementation of mitigation, operation would still exceed SCAQMD thresholds for ozone precursors (ROG and NO_X). Therefore, the Campus Master Planwould result in significant and unavoidable impacts.
Impact AQ-2. Construction would not generate pollutants in quantities that exceed SCAQMD significance thresholds. Operation would exceed SCAQMD thresholds for ROG and NO_X. With implementation of mitigation, the Campus Master Plan would still exceed SCAQMD thresholds for these pollutants. Therefore, impacts are significant and unavoidable.	See Mitigation Measure AQ-2 under Impact AQ-1.	Implementation of Mitigation Measure AQ-1 would provide educational information to residents of the campus to decrease their use of consumer products to benefit the air quality of the basin.
Impact AQ-3. The Campus Master Plan would not expose sensitive receptors to substantial pollutant concentrations from CO Hotspots or TAC's.	None Required.	Less than significant.

Impact	Mitigation Measure (s)	Residual Impact
Impact AQ-4. The Campus Master Plan would not result in other emissions (such as those leading to odors) adversely affecting a substantial number of people. For construction activities, odors would be short-term in nature and are subject to SCAQMD Rule 402 *Nuisance* (SCAQMD 1976). Construction activities would be temporary and transitory and associated odors would cease upon construction completion.	None required.	Less than significant.
Biological Resources		
Impact Bio-1. The Campus Master Plan would not have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service. No special-status plant or wildlife species were observed during the field reconnaissance survey.	None required.	Less than significant.
Impact Bio-2. Development of the Campus Master Plan would not have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations or by the California Department of Fish and Game or US Fish and Wildlife Service.	None required.	Less than significant.
Impact Bio-3. Development of the Campus Master Plan would not have a substantial adverse effect on state or federally protected wetlands (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means.	None required.	Less than significant.

Impact	Mitigation Measure (s)	Residual Impact
Impact Bio-4. Development of the Campus Master Plan would not interfere with the migratory movement of any fish or wildlife species. The San Gabriel Mountains, located approximately 18 miles north of the CSUF campus, serves as the closest essential wildlife corridor connectivity area. A natural landscape block is located approximately three miles northeast of the campus in Chino Hills. Given the distance to these two areas, the campus does not serve as a migratory wildlife corridor and implementation of the Campus Master Plan would not substantially interfere with the movement of any native wildlife species. Reference Section 4.13 for further discussion.	None required.	Less than significant.
Impact Bio-5. Implementation of the Campus Master Plan would not conflict with any local policies or ordinances protecting biological resources such as tree preservation. The Campus Master Plan states that a mature tree canopy would be maintained along the perimeter of campus to maintain a clear boundary between campus and neighboring residential areas and SR 57. Existing trees along the perimeter of campus would remain and additional trees would be planted where needed. If trees within the City's ROW are proposed to be altered in any way as part of the Campus Master Plan, a service request shall be submitted to the City of Fullerton Landscape Division. Reference Section 4.13 for further discussion.	None required.	Less than significant.
Impact Bio-6. The Campus Master Plan would not conflict with the provisions of an adopted Habitat Conservation Plan or Natural Community Conservation Plan. The City of Fullerton does not have jurisdiction over CSUF; however, CSUF considers aspects of local plans and policies for the communities surrounding the campus when it is appropriate and	None required.	Less than significant.

Impact	Mitigation Measure (s)	Residual Impact
feasible, although it is not bound by those plans and policies in its planning efforts. The campus is not subject to any Habitat Conservation Plan, Natural Conservation Community Plan, or additional local, regional, or state habitat conservation plan. Reference Section 4.13 for further discussion.		
Cultural Resources		
Impact CUL-1. Several historic resources are present on the CSUF campus and shall remain with implementation of the Campus Master Plan. Therefore, the Campus Master Plan would result in Less Than Significant Impacts with Mitigation Incorporated.	**CUL-1 Complete Historic Resources Evaluation and Project-Specific Surveys Prior to Design Phase to Identify Historical Resources** Before altering or otherwise affecting a building, structure, or designed landscape feature that is 45 years old or older, CSUF shall retain a historian or architectural historian who meets the Secretary of the Interior's Professional Qualifications Standards to assess and document the significance of the resource according to the criteria of the National Register of Historic Places (NRHP), California Register of Historical Resources (CRHR) and California Historical Landmarks program. The qualified historian or architectural historian shall prepare an intensive-level historic resources evaluation. Evaluations shall consider buildings, structures, objects, sites, historic districts, and potential cultural landscapes and shall identify the character-defining features of such resources and other required information on the appropriate Department of Parks and Recreation (DPR) 523 Record Forms, which shall be appended to the evaluation. The level of documentation for each evaluation shall comply with Public Resources Code Section 5024 and 5024.5 with respect to state-owned historical resources. For resources determined through this evaluation process to meet NRHP/CRHR and/or California Historical Landmark criteria, MM CUL-2 and MM CUL-3 shall be required as early as possible in the project planning and design phase. If the resource was the subject of a historic resources evaluation meeting the standards of PRC Section 5024 and 5024.5 within the last five (5) years, CUL-1 shall not be required. For buildings, structures, objects, sites, historic districts, cultural landscapes, and other resources determined through this evaluation process not to meet NRHP/CRHR and/or	Mitigation Measures CUL-1, CUL-2, CUL-3, and CUL-4 ensure adherence to applicable measures of the *Secretary's Standards* and CSUF Design Guidelines for projects pertaining to the preservation, rehabilitation, and/or maintenance of historic properties on the CSUF campus to record, evaluate, avoid, or otherwise treat the historic resource appropriately. In some circumstances, documentation of a historical resource shall not mitigate the effects of demolition of that resource to a less-than-significant level because the historic resources would no longer exist. Therefore, the Campus Master Plan would result in significant and unavoidable impacts.

Impact	Mitigation Measure (s)	Residual Impact
	California Historical Landmark criteria, no further mitigation is required. **CUL-2 Conduct Secretary's Standards Project Review and Analyze Impacts to Historical Resources** For projects that would demolish or alter resources eligible for listing in the NRHP, CRHR, or as a California Historical Landmark, CSUF shall retain a historian or architectural historian who meets the Secretary of the Interior's Professional Qualifications Standards to review and comment upon project plans for conformance with the Secretary's Standards and applicable mitigation measures and/or alternatives. The architectural historian or preservation architect shall provide input to CSUF and the project design team as early as possible to facilitate project compliance with the Secretary's Standards, if prudent and feasible. Preservation input will identify project options capable of complying with the Secretary's Standards and avoiding, lessening, or mitigating significant adverse impacts to historical resources. Secretary's Standards project review shall include all project components that would result in a physical change to character-defining features, insofar as these project details are available. If project details remain conceptual at the time of project review, the memorandum shall include design recommendations drawn from the Secretary's Standards that would facilitate compliance with the Standards and avoid, lessen, or mitigate significant adverse impacts to historical resources. In addition, the Secretary's Standards project review shall include a section assessing the potential direct and indirect impacts of the proposed project on the historical resource, whether an individual resource or historic district/cultural landscape. For projects that do not comply with the Secretary's Standards and would result in a significant adverse impact to a historical resource, MM CUL-4 shall be required. **CUL-3 PRC-Required SHPO Consultation** For state-owned historical resources, PRC Section 5024 and 5024.5 require SHPO consultation for proposed projects that might impact historical resources eligible for the NRHP, CRHR or as a California Historical Landmarks. These sections of the PRC are designed to give SHPO the opportunity to	

Impact	Mitigation Measure (s)	Residual Impact
	review and comment on historical resource determinations and proposed projects that might affect such historical resources. CSUF shall consult with SHPO regarding the potential alteration or demolition of any buildings, structures, objects, sites, historic districts, cultural landscapes, or other campus features that appear eligible for listing in the National Register of Historic Places, the California Register of Historical Resources or as California Historical Landmarks, as documented through CUL-1 or through survey or evaluation. Such consultation shall be completed pursuant to California PRC Sections 5024 and 5024.5 and related guidance published by SHPO. Following the completion of CUL-1 and/or CUL-2 and as early as possible in the project planning phase, CSUF shall retain an architectural historian or historian meeting the Secretary of the Interior's Professional Qualifications Standards in either architectural history or historic architecture in order to assist in SHPO consultation and compile the required documentation and consultation materials in compliance with PRC Sections 5024 and 5024.5 and related guidance published by SHPO. This shall include a formal request for consultation, the intensive-level historic resources evaluation establishing the historic resource status of the property, DPR 523 Record Forms, the appropriate historical background documentation, and a project-specific impacts analysis prepared by the qualified historian or architectural historian. **CUL-4 HABS-Like Documentation** For projects that do not comply with the Secretary's Standards and would result in a significant adverse impact to a historical resource, MM CUL-4 shall be required. Prior to the commencement of construction activities, CSUF shall retain a historian or architectural historian who meets the Secretary of the Interior's Professional Qualifications Standards to prepare HABS-like documentation for the subject historical resources. The evaluation process shall include the development of appropriate historical background research as context for the assessment of the significance of the structure in the history of the CSU system, CSUF, and the region. The HABS-like package will document in photographs and descriptive and historic narrative the historical resources slated for modification/demolition. Documentation prepared for the package will	

Impact	Mitigation Measure (s)	Residual Impact
	draw upon primary- and secondary-source research and available studies previously prepared for the project. The specifications for the HABS-like package follow: ▪ Photographs: Photographic documentation will focus on the historical resources/features slated for demolition, with overview and context photographs for the campus and adjacent setting. Photographs will be taken of the building using a professional-quality single lens reflex (SLR) digital camera with a minimum resolution of 10 megapixels. Photographs will include context views, elevations/exteriors, architectural details, overall interiors, and interior details (if warranted). Digital photographs will be provided in electronic format. ▪ Descriptive and Historic Narrative: The historian or architectural historian will prepare descriptive and historic narrative of the historical resources/features slated for demolition. Physical descriptions will detail each resource, elevation by elevation, with accompanying photographs, and information on how the resource fits within the broader campus during its period of significance. The historic narrative will include available information on the campus design, history, architect/contractor/designer as appropriate, area history, and historic context. In addition, the narrative will include a methodology section specifying the name of researcher, date of research, and sources/archives visited, as well as a bibliography. Within the written history, statements shall be footnoted as to their sources, where appropriate. ▪ Historic Documentation Package Submittal: The electronic package will be assembled by the historian or architectural historian and submitted to CSUF for review and comment. In addition, an electronic version of the HABS package will be provided to the State Office of Historic Preservation for review and comment. ▪ Upon approval by CSUF, one hard-copy version of the historic documentation package will be prepared and deposited with the University archives, Pollak Library Special Collections.	

Impact	Mitigation Measure (s)	Residual Impact
Impact CUL-2. No known archaeological resources or human remains are present on the campus. However, construction of the Campus Master Plan would involve ground-disturbing activities, such as grading and surface excavation, with the potential to unearth or adversely impact previously unidentified archaeological resources or human remains. Therefore, the Campus Master Plan would result in less than significant impacts with mitigations incorporated.	**CUL-5. Unanticipated Discovery of Cultural and Tribal Cultural Resources.** In the event that cultural resources of Native American origin are identified during construction, all earth-disturbing work in the vicinity of the find shall be temporarily suspended or redirected until an archaeologist meeting the Secretary of the Interior's Professional Qualifications Standards (NPS 1983) has evaluated the nature and significance of the find and an appropriate Native American representative, based on the nature of the find, is consulted. If CSUF determines that the resource is a tribal cultural resource and thus significant under CEQA, a mitigation plan shall be prepared and implemented in accordance with state guidelines and in consultation with Native American groups. The plan shall include avoidance of the resource or, if avoidance of the resource is infeasible, the plan shall outline the appropriate treatment and data recovery plan in coordination with the archeologist and the appropriate Native American tribal representative. The Native American monitor and consulting tribe(s) will be provided an opportunity to participate in the documentation and evaluation of the find. If a data recovery plan and treatment of the unanticipated discovery is required, then the consulting tribe(s) will be provided an opportunity to review and provide input on the plan and treatment. **CUL-6. Discovery of Unknown Human Remains.** The discovery of human remains is always a possibility during ground disturbing activities. If human remains are found, the State of California Health and Safety Code Section 7050.5 states that no further disturbance shall occur until the County coroner has made a determination of origin and disposition pursuant to PRC Section 5097.98. In the event of an unanticipated discovery of human remains, the County coroner must be notified immediately. If the human remains are determined to be prehistoric, the coroner shall notify the NAHC, which will determine and notify a MLD. The MLD shall complete the inspection of the site within 48 hours of being granted site access and may recommend scientific removal, and nondestructive analysis of human remains and items associated with Native American burials, pursuant to Mitigation Measure CUL-2.	Mitigation Measures CUL-5 and CUL-6 ensure construction and ground-disturbing activities would halt in the event previously unknown cultural resources or human remains are unearthed, and such resources would be properly identified and managed. Therefore, Campus Master Plan impacts to cultural resources and human remains would be less than significant with implementation of Mitigation Measures CUL-5 and CUL-6.

Impact	Mitigation Measure (s)	Residual Impact
Energy		
Impact ENG-1. Development of the Campus Master Plan would not result in the wasteful or inefficient use of energy and would comply with CARB construction regulations and would operationally account for less than one percent of SCE and SCG supplies.	None required.	Less than significant.
Impact ENG-2. Implementation of the Campus Master Plan would not conflict with or obstruct a state or local plan for renewable energy or energy efficiency. Campus master Plan buildout would comply with Title 24, SB100 and the CSU Sustainability Policy and would not conflict with or obstruct applicable State plans related to renewable energy or energy efficiency.	None required.	Less than significant.
Greenhouse Gas Emissions		
Impact GHG-1. The Campus Master Plan would generate GHG emissions during construction and operation that would exceed the GHG emission threshold. With mitigation, this impact would still exceed the threshold, and impacts would be significant and unavoidable.	**GHG-1. GHG Emissions Reeducation Plan.** CSUF shall prepare and implement a plan to reduce operational GHG emissions through implementation of one or more of the following measures: a. Prior to the construction of CMP projects analyzed in this analysis,[1] CSUF shall develop a Greenhouse Gas Reduction Program (GGRP) that reduces annual GHG emissions from the CMP by a minimum of the MT CO_2e per year that the project exceeds for that year and each subsequent year, which is estimated to be 8,325 MT CO_2e in 2039 (1.15 MT CO_2e per person per year in 2039) over the operational life of the project, or by an amount determined through further analysis of project GHG emissions at the time of GGRP preparation. The plan may include, but not be limited to, the following components: 1) Installation of renewable energy facilities (e.g., solar photovoltaics); 2) Purchase of renewable energy in lieu of fossil-fuel grid sources; 3) Construction of residences that achieve energy and water efficiencies beyond those specified in the California Code of Regulations, Title 24 requirements; 4) Implementation of energy efficient building design exceeding California Building Code requirements; 5) Installation of energy-	Implementation of Mitigation Measure GHG-1 would reduce GHG emissions through creation and implementation of a GHG Reduction Plan. At this stage of planning, it is unknown what exact measures would be implemented as part of the plan and therefore reductions are not quantifiable. In addition, it is unknown if the measures would be able to reduce emissions to below the applicable thresholds due to the majority of the emissions coming from mobile emissions. Although project design features include TDM implementation that would have the effect of reducing mobile trips that was not included in modeling (e.g., mobility hubs that support transit, bikeshare, scootershare, carshare, on-demand rideshare, microtransit, electric vehicles [EV]'s, and rideables), ultimately vehicle emissions depend on individual

[1] The analysis did not include projects in the Campus Master Plan considered "immediate" or part of the 5-year capital plan

Impact	Mitigation Measure (s)	Residual Impact
	efficient equipment and appliances exceeding California Green Building Code standards; 6) Construction of all-electric buildings; 7) Installation of outdoor water conservation and recycling features, such as smart irrigation controllers and reclaimed water usage; 8) Installation of low-flow bathroom and kitchen fixtures and fittings; 9) Provision of incentives and outreach for future residents to promote alternative transportation and transit use; 10) Promotion of alternative fuel vehicles; 11) Increased provision of EV charging parking spaces beyond required; 12) Implementation of carbon sequestration measures.	transportation choices that CSUF would not have full control over. Therefore, impacts from GHG emissions would be significant and unavoidable.
Impact GHG-2. Due to GHG emissions during construction and operation that would exceed the threshold, the Campus Master Plan would conflict with the goals of the 2018 Scoping Plan, EO B-55-18, and ACUPCC. With mitigation, this impact would still exceed the project-specific threshold, and impacts would be significant and unavoidable.	See Mitigation Measure GHG-1 under Impact GHG-1.	See *Significance After Mitigation* discussion under Impact GHG-1.
Geology and Soils		
Impact GEO-1. The campus is not located in an Alquist-Priolo fault zone and no fault lines traverse directly under the site. There is potential for both earthquakes and ground shaking in the campus area. Impacts from earthquakes would be potentially significant.	**GEO-1. Perform site specific geotechnical investigations.** A site-specific geotechnical investigation shall be performed for each future development or redevelopment project proposed under the Campus Master Plan. Appropriate stabilization and site design recommendations, or low impact development features determined necessary to support proposed development shall be incorporated in the project design and implemented as part of project construction. Examples of stabilization and erosion control recommendations may include. But are not limited to: ▪ Installation of earthen buttress(es); ▪ Excavation of landslide mass/material; ▪ Slope stabilization through excavation into bench and/or keyways and other methods; ▪ Deep soil mixing; ▪ Installation of retaining walls; ▪ Use of tie-back anchors, micropiles or shear pins; or ▪ A combination of any of these methods	Impact would be less than significant with mitigation incorporated.

Impact	Mitigation Measure (s)	Residual Impact
Impact GEO-2. The campus would be subject to potential erosion of topsoil due to temporary construction activities. All construction would be subject to follow SWRCB's Construction Requirements and would be required to prepare a SWPPP. Additionally, CSUF is located on built-out, flat topography. Substantial soil erosion of topsoil would not occur given the above considerations. Impacts would be less than significant with mitigation incorporated.	See Mitigation Measure GEO-1, above.	Impact would be less than significant with mitigation incorporated.
Impact GEO-3. The Campus Master Plan would not be located on a geologic unit or soil that is unstable, or that would become unstable, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction, or collapse. All structures proposed to be constructed or redeveloped under the Campus Master Plan would be required to comply with the CSU Seismic Requirements and the latest CBC, to ensure structural design of all new and modified buildings would not result in adverse effects such on- or off-site landslides, lateral spreading, subsidence, liquefaction, or collapse.	None required.	Less than Significant.
Impact GEO-4. The campus is located on a site with Mocho Loam which has expansive properties. However, projects under the Campus Master Plan would comply with applicable regulations set forth by the UBC, Division of the State Architect (DSA), and CGS, which would minimize risks to life and property in relation to expanding soils.	None required.	Less than significant.
Impact GEO-5. The Campus Master Plan does not include the use of septic tanks or alternative wastewater disposal systems. Reference Section 4.13 for further discussion.	None required.	No impact.

Impact	Mitigation Measure (s)	Residual Impact
Impact GEO-6. The campus includes underlying geologic units that have paleontological sensitivity ranging from low to high. Potential for paleontological resources may occur during ground-disturbing activities for certain projects. Mitigation measures have been identified to reduce impacts in the event of an unanticipated discovery of paleontological resources. Impacts would be less than significant with mitigation measures incorporated.	**GEO-2. Retain a Qualified Paleontologist.** Prior to the commencement of ground disturbing activities, a qualified professional paleontologist shall be retained to review all project plans where ground disturbance is expected to occur at or below eight feet below ground surface (bgs) within areas mapped as Holocene alluvial deposits (Qa) to determine if underlying paleontologically sensitive units (i.e., Pleistocene age deposits or the La Habra Formation) could be impacted. If potentially significant impacts are identified, the qualified professional paleontologist shall prepare and implement a Paleontological Resources Mitigation Plan (PRMP). A Qualified Paleontologist is an individual who meets the education and professional experience standards as set forth by the SVP (2010), which recommends the paleontologist shall have at least a Master's Degree or equivalent work experience in paleontology, shall have knowledge of the local paleontology, and shall be familiar with paleontological procedures and techniques. The PRMP shall describe mitigation recommendations in detail, including paleontological monitoring procedures; communication protocols to be followed in the event that an unanticipated fossil discovery is made during project development; and preparation, curation, and reporting requirements **GEO-3. Paleontological Worker Environmental Awareness Program (WEAP).** Prior to the start of construction, the Qualified Paleontologist or his or her designee, shall conduct training for construction personnel regarding the appearance of fossils and the procedures for notifying paleontological staff should fossils be discovered by construction staff. The WEAP shall be fulfilled at the time of a preconstruction meeting. In the event a fossil is discovered by construction personnel anywhere in the campus, all work in the immediate vicinity of the find shall cease and a qualified paleontologist shall be contacted to evaluate the find before re-starting work in the area. If it is determined that the fossil(s) is (are) scientifically significant, the qualified paleontologist shall complete the mitigation outlined below to mitigate impacts to significant fossil resources. **GEO-4 Paleontological Monitoring.** Initially, full-time monitoring shall be conducted during ground construction activities (i.e., grading, trenching, foundation work, and other excavations) in areas where ground	Impact would be less than significant with mitigation incorporated.

Impact	Mitigation Measure (s)	Residual Impact
	disturbance would occur at or below eight feet bgs within intact Holocene deposits. Monitoring shall be conducted by a qualified paleontological monitor, who is defined as an individual who meets the minimum qualifications per standards set forth by the SVP (2010), which includes a B.S. or B.A. degree in geology or paleontology with one year of monitoring experience and knowledge of collection and salvage of paleontological resources. The duration and timing of the monitoring shall be determined by the Qualified Paleontologist and the location and extent of proposed ground disturbance. If the Qualified Paleontologist determines that full-time monitoring is no longer warranted, based on the specific geologic conditions at the surface or at depth, the Qualified Paleontologist may recommend that monitoring be reduced to periodic spot-checking or cease entirely. **GEO-5. Fossil Discovery, Preparation, and Curation.** If a paleontological resource is discovered, the monitor shall have the authority to temporarily divert the construction equipment around the find until it is assessed for scientific significance and collected. Typically, fossils can be safely salvaged quickly by a single paleontologist and not disrupt construction activity. In some cases, larger fossils (such as complete skeletons or large mammals) require more extensive excavation and longer salvage periods. In this case, the paleontologist should have the authority to temporarily direct, divert or halt construction activity to ensure that the fossil(s) can be removed in a safe and timely manner. **GEO-6. Final Paleontological Mitigation Report.** At the conclusion of laboratory work and museum curation, a final report shall be prepared describing the results of the paleontological mitigation monitoring efforts associated with the project. The report shall include a summary of the field and laboratory methods, an overview of the project geology and paleontology, a list of taxa recovered (if any), an analysis of fossils recovered (if any) and their scientific significance, and recommendations. The final report shall be submitted to the CSUF. If the monitoring efforts produced fossils, then a copy of the report shall also be submitted to the designated museum repository.	

Impact	Mitigation Measure (s)	Residual Impact
Hazards and Hazardous Materials		
Impact HAZ-1. Development of the Campus Master Plan would not create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials. Protocols established for current and future campus operational and maintenance activities adhere to applicable local, state, and federal laws regulating the use and transport of hazardous materials. References Section 4.13 for further discussion.	None required.	Less than significant.
Impact HAZ-2. The Campus Master Plan would not create a significant hazard to the public or the environment through reasonably foreseeable upset and accidental conditions involving the release of hazardous materials into the environment. Chemical safety training is required for all students who work with chemicals, in order to minimize the occurrence of accidental chemical releases and ensure that, when one does occur, it is handled in a safe manner. *References Section 4.13 for further discussion.*	None required.	Less than significant.
Impact HAZ-3. The Campus Master Plan would not emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school. The campus is a school itself and has a number of schools within a quarter of a mile. However, the US Department of Transportation regulates the transportation of hazardous materials through implementation of the Hazardous Materials Transportation Act minimizing impacts. Reference Section 4.13 for further discussion.	None required.	Less than significant.
Impact HAZ-4. The Campus Master Plan would not be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government	None required.	Less than significant.

Impact	Mitigation Measure (s)	Residual Impact
Code Section 65962.5. A review of the USEPA's Superfund National Priorities List found that there are no superfund sites within CSUF or immediate vicinity. The GeoTracker database contains four sites in the campus area that were previously contaminated; chiefly, gasoline contamination on the ground. All four sites have been cleaned, closed, and require no further action. Reference Section 4.13 for further discussion.		
Impact HAZ-5. The campus is not located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would result in a safety hazard or excessive noise. The campus is not located in the planning area or impact zone for the Fullerton Municipal Airport or any other airport land use plan. Reference Section 4.13 for further discussion.	None required.	Less than significant.
Impact HAZ-6. Development of the Campus Master Plan would not impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan. The Campus Master Plan would maintain and/or enhance existing access points to and internal circulation routes on the campus. The FFD and the DSA are required to complete an access compliance review and a fire and life safety review prior to approval of individual project drawings and specification documents.	None required.	Less than significant.
Impact HAZ-7. Development of the Campus Master Plan would not expose people or structures, either directly or indirectly, to a significant risk of loss, injury or death involving wildland fires. The campus is located in an urbanized area with no adjacent wildlands and is not located in a fire hazard severity zone as shown on California Department of Forestry	None required.	Less than significant.

Impact	Mitigation Measure (s)	Residual Impact
& Fire Protection's (CAL FIRE) fire hazard severity zone map.		
Hydrology and Water Quality		
Impact Hydro-1. The Campus Master Plan would not violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or groundwater quality. Projects under the Campus Master Plan would be required to comply with all applicable stormwater discharge regulations. Projects under the Campus Master Plan would collectively result in land disturbance of more than one acre and would therefore be required to comply with NPDES regulations for construction stormwater discharge, and the development of a SWPPP, required by the Construction General Permit, General Permit Order 2009-0009-DWQ.	None required.	Less than significant.
Impact Hyrdo-2. Development of the Campus Master Plan would not substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that it may impede sustainable groundwater management of the basin. The geography and the CSUF's continued compliance with stormwater runoff regulations would reduce impact on groundwater resources. The City provides water service to the campus and would continue to do so under the Campus Master Plan. No on-site groundwater wells are proposed as part of the Campus Master Plan.	None required.	Less than significant.
Impact Hydro-3. Development of the Campus Master Plan would not substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces. The campus is largely developed with existing academic uses associated with the campus. Such uses include substantial	None required.	Less than significant.

Impact	Mitigation Measure (s)	Residual Impact
impervious surface cover and, consequently, buildout under the Campus Master Plan would not be expected to result in substantial alterations to drainage patterns.		
Impact Hydro-4. The Campus Master Plan would not cause flood hazard, tsunami, or seiche zones, or risk release of pollutants.	None required.	No impact.
Impact Hyrdo-5. Development of the Campus Master Plan would not conflict with or obstruct implementation of a water quality control or sustainable groundwater management plan. CSUF has a campus-wide Storm Water Management Program that includes 12 BMPs, which aim to address stormwater threats from operational and maintenance activities for the campus (CSUF 2018b; CSUF 2019a). Therefore, projects under the Campus Master Plan would require compliance with the NPDES Construction General Permit during construction activities and compliance with CSUF's Storm Water Management Program during use, operation, and maintenance of the CSUF campus under Campus Master Plan full buildout.	None required.	Less than significant.
Land Use Planning		
Impact LU-1. Development of the Campus Master Plan would not physically divide an established community. The redevelopment under the Campus Master Plan would occur entirely within the existing campus footprint and does not propose an extension of campus outside of the existing campus boundaries, nor propose or create the need for new roadways. Utility infrastructure improvements would be temporary and would not encroach or impact existing neighborhoods or the surrounding community.	None required.	Less than significant.
Impact LU-2. The Campus Master Plan would not cause a significant environmental impact due to a	None required.	Less than significant.

Impact	Mitigation Measure (s)	Residual Impact
conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect. The City of Fullerton does not have jurisdiction over CSUF; however, CSUF considers aspects of local plans and policies for the communities surrounding the campus when it is appropriate and feasible, although it is not bound by those plans and policies in its planning efforts.		
Mineral Resources		
Impact MIN-1. Development of the Campus Master Plan would not result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state. No portions of CSUF are utilized for mineral extraction. The City of Fullerton does not contain any land uses within City jurisdiction for mining or mineral extraction activities.	None required.	No impact.
Impact MIN-2. The Campus Master Plan would not result in the loss of availability of a locally-important mineral resource recovery site delineated on a local general plan, specific plan, or other land use plan. Therefore, implementation of the Campus Master Plan would not result in loss of availability of a known mineral resource or a locally-important mineral resource recovery site delineated on a local general plan, specific plan, or other land use plan, as no known mineral resources are located in the campus area.	None required.	No impact.
Noise		
Impact N-1. Construction and operation of the Campus Master Plan would result in noise level increases that would exceed applicable construction and operation noise standards at nearby noise sensitive receivers. Impacts from construction and operation noise would be potentially significant.	**N-1. Pile Driver Noise and Vibration Reduction Measures.** If pile driving is to be used within 260 feet of a stricture during project construction, one of the following measures shall be implemented: ▪ Use of a pile driver shall not occur within 260 feet of a structure; or ▪ A Campus Master Plan-specific noise and vibration impact analysis shall be conducted that shall consider the type of	Impacts from construction using a pile driver would be less than significant with implementation of Mitigation Measure N-1. Impacts from operational noise from HVAC units would be less than significant with implementation of Mitigation Measure N-2.

Impact	Mitigation Measure (s)	Residual Impact
	pile driver used and potential noise and vibration levels at structures within 260 feet. If, after consideration of the type of pile driver used and other factors of the environment, noise levels do not exceed 80 dBA (8-hour) and vibration levels do not exceed the distinctly perceptible impact for humans of 0.24 in/sec PPV and the structural damage impact to residential structures of 0.2 in/sec PPV, construction may proceed without additional measures. If, after consideration of the type of pile driver used and other factors of the environment, noise levels exceed 80 dBA (8-hour) or vibration levels exceed the distinctly perceptible impact for humans of 0.24 in/sec PPV or the structural damage impact to residential structures of 0.2 in/sec PPV, additional measures shall be implemented to reduce noise and vibration levels below threshold. These measures may include, but not be limited too, use of temporary noise barriers or performing pile driving at a further distance from the noise-sensitive land use. **N-2. HVAC Noise Reduction Measures.** Concurrent with design review and prior to the approval of building permits, CSUF shall require a Campus Master Plan-specific design plan for projects demonstrating that the noise level from operation of HVAC units shall not cumulatively exceed the following noise level limits at receiving noise-sensitive land uses as specified in Fullerton Municipal Code Chapter 15.9045: ▪ For exterior locations, 55 dBA from 7:00 a.m. to 10:00 p.m. and 50 dBA from 10:00 p.m. to 7:00 a.m. ▪ For interior locations, 55 dBA from 7:00 a.m. to 10:00 p.m. and 45 dBA from 10:00 p.m. to 7:00 a.m. Noise control measures shall include, but are not limited to, the selection of quiet equipment, equipment setbacks, silencers, and/or acoustical louvers.	
Impact N-2. Vibration from pile driving during construction may exceed applicable standards. The impact would be potentially significant.	See Mitigation Measure N-1 above.	Impacts associated with vibration from construction activities would be less than significant with implementation of Mitigation Measure N-1.
Population and Housing		
Impact POP-1. Implementation of the Campus Master Plan would not induce substantial unplanned	None required.	Less than significant.

Impact	Mitigation Measure (s)	Residual Impact
population growth in an area, either directly or indirectly. Based on SCAG's projections, the addition of 8,000 residents under the Campus Master Plan would account for less than one percent of the total area population by 2040 and would not represent substantial unplanned growth.		
Impact POP-2. Development of the Campus Master Plan would not displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere. Local policies, including those included in The Fullerton Plan and Municipal Code, would guide housing development to accommodate the needs of future population growth, particularly housing for low-income residents, and decrease potential impacts to existing residents from housing and economic displacement.	None required.	Less than significant.
Public Services		
Impact PUB-1a. Development of the Campus Master Plan would not result in substantial adverse physical impacts associated with the provision of new or physically altered fire protection facilities, or the need for new or physically altered fire protection facilities. All site and building improvements carried out under the Campus Master Plan would be required to comply with the 2016 Fire and Building Code requirements for construction, access, water mains, fire flows, and hydrants, and would be subject to review and approval by the FFD prior to building permit and certificate of occupancy issuance. Implementation would result in the continuation of existing academic programs, extra-curricular activities, and similar housing and instructional facilities and would not fundamentally change the nature of campus operations.	None required.	Less than significant.

Impact	Mitigation Measure (s)	Residual Impact
Impact PUB-1b. The Campus Master Plan would not result in substantial adverse physical impacts associated with the provision of new or physically altered police protection facilities, or the need for new or physically altered police protection facilities. Construction would not cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives. Implementation of the Campus Master Plan would incrementally increase the service population of the Fullerton Police Department (FPD). The University Police Department (UPD), which has primary jurisdiction on campus, would reduce demand for FPD services. Facility space for the UPD is included in the Campus Master Plan.	None required.	Less than significant.
Impact PUB-1c. The Campus Master Plan would not result in substantial adverse physical impacts associated with the provision of new or physically altered schools, or the need for new or physically altered schools. Construction would not cause significant environmental impacts, in order to maintain acceptable service ratios or other performance objectives. Implementation of the Campus Master Plan would incrementally increase the enrollment of students in local schools. However, enrollment would not cause schools to exceed capacity.	None required.	Less than significant.
Impact PUB-1d. The Campus Master Plan would not result in substantial adverse physical impacts associated with the provision of new or physically altered public facilities, or the need for new or physically altered public facilities. Construction would not cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives.	None required.	Less than significant.

Impact	Mitigation Measure (s)	Residual Impact
Recreation		
Impact REC-1. The Campus Master Plan would not increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated. The Campus Master Plan would incrementally increase the use of existing open space and recreational facilities. However, the Campus Master Plan would incrementally develop six signature forms of open space to help reduce off-campus affects.	None required.	Less than significant.
Impact REC-2. Development of the Campus Master Plan would not include recreational facilities or require the construction or expansion of recreational facilities that would have an adverse physical effect on the environment. The Campus Master Plan would include maintenance, improvement, and construction of parks and recreation facilities to serve an associated increase in population and would not require the construction or expansion of facilities beyond what is proposed in the Campus Master Plan.	None required.	Less than significant.
Transportation and Traffic		
Impact TRAN-1. The Campus Master Plan would not conflict with a program, plan, ordinance or policy addressing the circulation system, including transit, roadway, bicycle and pedestrian facilities. Development under the Campus Master Plan would be consistent with Applicable CSU programs, plans, and policies. Implementation of the Campus Master Plan would not result in major changes to the design, location, or access to existing transit, campus circulation, or bicycle and pedestrian facilities.	None required.	Less than significant.
Impact TRAN-2. The Campus Master Plan would not conflict or be inconsistent with CEQA Guidelines Section 15064.3,	None required.	Less than significant.

Impact	Mitigation Measure (s)	Residual Impact
subdivision (b), such that it would result in VMT per service population for the campus as a whole that exceeds 18.90 (i.e., 15 percent below citywide VMT per service population. Project-generated VMT per service population would be below the CSU TSM threshold under relatively constant conditions.		
Impact TRAN-3. The Campus Master Plan would not substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment). Development under the Campus Master Plan would be constructed in such a way that changes would remain consistent to surrounding geometric design features and any redesign or construction of on-campus circulation paths would be designed and constructed to meet applicable City and Campus Master Plan design standards.	None required.	Less than significant.
Impact TRAN-4. Development of the Campus Master Plan would not result in inadequate emergency access. Development under the Campus Master Plan would not include major changes to existing access points or on-campus circulation paths. All projects under the Campus Master Plan would adhere to State University policy and undergo review and approval by the State Fire Marshal prior to implementation and use.	None required.	Less than significant.
Tribal Cultural Resources		
Impact TCR-1. Development of the Campus Master Plan would not cause a substantial adverse change in the significance of a tribal cultural resource that is listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in PRC §5020.1. No tribal cultural resources have been identified from AB 52 consultation efforts and the area of disturbance for	Mitigation Measures CUL-2 and CUL-3 are required.	Less than significant.

Impact	Mitigation Measure (s)	Residual Impact
the campus is not known or expected to contain any tribal cultural resources that would qualify as a historical resource or a unique cultural resource.		
Impact TCR-2. Development of the Campus Master Plan would not cause a substantial adverse change in the significance of a tribal cultural resource that is a resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in PRC Section 5024.1(c).	Mitigation Measures CUL-2 and CUL-3 are required.	Less than significant.
Utilities and Service Systems		
Impact UTIL-1a. Development of the Campus Master Plan would not require or result in the relocation or construction of new or expanded water, wastewater treatment or stormwater drainage, or telecommunications facilities. Construction of which could cause significant environmental effects. The Campus Master Plan may require installation of additional water main lines, lateral connections, and hydrants within the plan area to serve planned facilities. Such facilities would be installed during individual project construction and within the disturbance area of such projects or previously disturbed roadways.	None required.	Less than significant.
Impact UTIL-1b. The Campus Master Plan may require installation of additional sewer lines and lateral connections within the plan area to serve planned facilities. As with water facilities, any sewer line extensions necessary to serve the future facilities would generally be installed within the already disturbed ROW of existing roads or within the disturbance footprint of proposed buildings.	None required.	Less than significant.
Impact UTIL-1c. All individual projects constructed under the Campus Master Plan would constitute regulated projects under the Phase II MS4 Permit	None required.	Less than significant.

Impact	Mitigation Measure (s)	Residual Impact
and, therefore, would be required to demonstrate compliance with the stormwater capture requirements described in the permit. As with water and wastewater facilities, proposed storm drain infrastructure would be constructed within the disturbance area of individual projects or previously disturbed roadways and would not result in substantial additional impacts.		
Impact UTIL-1d. No major telecommunications improvements are proposed as part of the Campus Master Plan. Individual projects occurring under the Campus Master Plan may require minor telecommunications improvements, such as undergrounding of telephone lines or rewiring of buildings during renovation. Such improvements would be minor in nature and would generally occur within the disturbance area of individual projects.	None required.	Less than significant.
Impact UTIL-2. The Campus Master Plan would have sufficient water supplies available during normal, dry and multiple dry years. Construction and operation of the Campus Master Plan would result in a net increase in water demand of approximately 1,198 AFY of water. This increase in demand through 2040 is accounted for in the City of Fullerton's 2015 Urban Water Management Plan.	None required.	Less than significant.
Impact UTIL-3. The Campus Master Plan would not result in a determination by the wastewater treatment provider that it does not have adequate capacity to serve the project in addition to the provider's existing commitments. Wastewater generated by development under the Campus Master Plan would be treated at the Orange County Sanitation District's Treatment Plant Number 2 facility in Huntington Beach. The plant	None required.	Less than significant.

Impact	Mitigation Measure (s)	Residual Impact
would have adequate capacity to serve the Campus Master Plan's anticipated wastewater generation in addition to its existing wastewater treatment commitments.		
Impact UTIL-4. The Campus Master Plan would not generate solid waste in excess of state or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals. The Campus Master Plan would not generate solid waste in excess of state or local standards, or in excess of the capacity of local infrastructure, including the Frank R. Bowerman Landfill.	None required.	Less than significant.
Impact UTIL-5. The Campus Master Plan would comply with federal, State, and local management and reduction statutes and regulations related to solid waste. The Campus Master Plan would be required to comply with federal, state, and CSU statutes and regulations related to solid waste.	None required.	Less than significant.
Wildfire		
Impact WILD-1. The Campus Master Plan would not substantially impair an adopted emergency response plan or emergency evacuation plan.	None required.	No impact.
Impact WILD-2. The Campus Master Plan would not exacerbate wildfire risks due to slope, prevailing winds, and other factors, and thereby expose campus occupants to pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire.	None required.	Less than significant.
Impact WILD-3. The Campus Master Plan would not require the installation or maintenance of associated infrastructure (such as roads, fuel breaks, emergency water sources, power lines or other utilities) that may exacerbate fire risk or that may result in temporary or ongoing impacts to the environment.	None required.	Less than significant.

Impact	Mitigation Measure (s)	Residual Impact
Impact WILD-4. Development of the Campus Master Plan would not expose people or structures to significant risks, including downslopes or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes. CSUF is developed with relatively flat topography and proposed uses under the Campus Master Plan would remain the same as current uses.	None required.	Less than significant.

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1 Introduction

This Environmental Impact Report (EIR) evaluates impacts associated with the update to the Campus Master Plan for California State University, Fullerton (CSUF) at 800 North State College Boulevard, Fullerton, California. This EIR has been prepared under the direction of California State University (CSU) Board of Trustees (Trustees) in accordance with the requirements of the California Environmental Quality Act (CEQA) (Public Resources Code [PRC] Section 21000 et seq.) and the CEQA Guidelines. This section discusses:

- Project requiring environmental analysis (synopsis);
- Type, purpose, and intended uses of the Draft EIR;
- Scope and content of the Draft EIR; and
- Agency roles and responsibilities.

1.1 Project Requiring Environmental Analysis

The following is a synopsis of the project characteristics. For additional information on the Campus Master Plan, see section 2.0, *Project Description*.

CSUF has become one of the top two largest universities within the CSU system periodically accommodating the largest FTES enrollment of any of the 23 campuses, since approval of the 2003 Campus Master Plan (2003 Master Plan). The 2003 Master Plan is now outdated and inadequate to accommodate CSUF's continued growing demand. Moreover, CSUF and the City of Fullerton have undergone considerable demographic, economic, political, and social changes within the last decade and a half. The Campus Master Plan provides a framework for managing future campus growth and change, as well as the campus's relationship with the City in a strategic and orderly way.

The Campus Master Plan would support and advance the University's educational mission through the provision of recommendations for future land uses, enhancement and replacement of existing facilities, infrastructure improvements, and improved intra-campus pedestrian connectivity. Key proposed Campus Master Plan components include net new on-campus housing for up to 3,000 students, a 6,000-seat event center, recreational facility and student union upgrades, new facilities and programs to enhance the University's Fullerton Arboretum, increased parking capacity, new transit mobility hubs, and a pedestrian bridge access across Nutwood Avenue. The Campus Master Plan would accommodate up to 32,000 full-time equivalent students (FTES) through the year 2039, an increase from the previously approved enrollment level of 25,000 as of the 2016/2017 academic year. The net new addition of approximately 5,044,111 gross square feet (gsf) of additional on-campus facilities is proposed as part of the Campus Master Plan.

Ultimately, the project is intended to create an environment that fosters a complete, vibrant campus life, with increased amenities for student learning and informal engagement, expanded student housing and campus student life, greater accommodation of diverse modes of transit, and appropriate sustainability features and practices. Project implementation is anticipated in phases as funding and design are finalized.

1.2 Purpose and Legal Authority

The Campus Master Plan requires the approval of the California State University, Board of Trustees. The Campus Master Plan is subject to the environmental review requirements of CEQA. According to CEQA, preparation of an EIR is required whenever it can be fairly argued, based on substantial evidence, that a proposed project may result in a significant environmental impact. An EIR is an informational document used to inform public-agency decision makers and the public of significant environmental impacts of a project, identify possible ways to minimize the impacts, and describe reasonable alternatives to the project that could feasibly attain most of the basic objectives of the project while substantially lessening or avoiding any of the significant environmental impacts. Public agencies are required to consider the information presented in the EIR when determining whether to approve a project. This Draft EIR has been prepared to meet the requirements of a program EIR as defined by Section 15168 of the CEQA Guidelines. As described in CEQA Guidelines Section 15168(a), a program EIR may be prepared for a series of action that can be characterized as one large project and are related either:

(1) Geographically;

(2) As logical parts in the chain of contemplated actions;

(3) In connection with the issuance of rules, regulations, plans, or other general criteria to govern the conduct of a continuing program; or

(4) As individual activities carried out under the same authorizing statutory or regulatory authority and having generally similar environmental impacts which can be mitigated in similar ways."

A program EIR can be used as the basic, general environmental assessment for an overall program of projects developed over a multi-year planning horizon, and therefore is an appropriate review document for the 2035 Master Plan. A program EIR has several advantages. For example, it provides a basic reference document to avoid unnecessary repetition of facts or analysis in subsequent project-specific assessments. It also allows the lead agency to consider the broad, regional impacts of a program of actions before its adoption and eliminates redundant or contradictory approaches to the consideration of regional and cumulative impacts.

1.3 Scope of this EIR

This EIR addresses the following 20 environmental issue areas as well as other CEQA mandated issues (i.e., cumulative impacts, growth-inducing impacts significant unavoidable impacts, alternatives):

- Aesthetics
- Agriculture and Forestry Resources
- Air Quality
- Biological Resources
- Cultural Resources
- Energy Conservation
- Geology and Soils
- Land Use and Planning
- Mineral Resources
- Noise
- Population and Housing
- Public Services
- Recreation
- Transportation

- Greenhouse Gas Emissions
- Hazardous and Hazardous Materials
- Hydrology and Water Quality
- Tribal Cultural Resources
- Utilities and Service Systems
- Wildfire

The alternatives section of the EIR (Section 7.0) was prepared in accordance with Section 15126.6 of the CEQA Guidelines and focuses on alternatives that are capable of eliminating or reducing significant adverse effects associated with the project while feasibly attaining most of the basic project objectives. In addition, the alternatives section identifies the "environmentally superior" alternative among the alternatives assessed. The alternatives evaluated include the CEQA-required "No Project" alternative and two alternative development scenarios for the project area.

The level of detail contained throughout this EIR is consistent with the requirements of CEQA and applicable court decisions. Section 15151 of the CEQA Guidelines provides the standard of adequacy on which this document is based:

> An EIR should be prepared with a sufficient degree of analysis to provide decisionmakers with information which enables them to make a decision which intelligently takes account of environmental consequences. An evaluation of the environmental effects of the proposed project need not be exhaustive, but the sufficiency of an EIR is to be reviewed in light of what is reasonably feasible. Disagreement among experts does not make an EIR inadequate, but the EIR should summarize the main points of disagreement among the experts. The courts have looked not for perfection but for adequacy, completeness, and a good faith effort at full disclosure.

In preparing the EIR, use was made of pertinent CSU and CSUF policies and guidelines, certified EIRs and adopted CEQA documents, and other background documents. A full reference list is contained in Section 8.0, *References*.

1.4 Lead, Responsible, and Trustee Agencies

The CEQA Guidelines define lead, responsible and trustee agencies. The California State University, Board of Trustees (Trustees) is the lead agency because it holds principal responsibility for approving the Campus Master Plan.

A responsible agency refers to a public agency other than the lead agency that has discretionary approval over the Campus Master Plan. Responsible agencies include the Orange County Water District, which regulates water quality in the region, and the South Coast Air Quality Management District, which regulates air quality in the region. The EIR will also be submitted to these agencies for review and comment.

Trustee agencies are state agencies with legal jurisdiction over natural resources affected by the Campus Master Plan that are held in trust for the people of the state of California. Responsible and trustee agencies include:

State Agencies

- **California Department of Fish and Wildlife** - Section 1600 Streambed Alteration Agreement and compliance with California Endangered Species Act for potential take of listed species (if needed).
- **California Department of Transportation** - regulates California state roads and highways.
- **State Fire Marshal** - future facility fire safety review and approval.

Regional and Local Agencies

- **City of Fullerton** -encroachment Permits for work within City's streets and rights-of-way.
- **Regional Water Quality Control Board** - Section 401 Certification and Storm Water Discharge Permits.
- **Orange County Water District** - regulates water quality in the region.
- **South Coast Air Quality Management District** - regulates air quality in the region.
- **Orange County Transportation Authority** - approval of any future regional bus service improvement.

1.5 Environmental Review Process

The environmental impact review process, as required under CEQA, is summarized below and illustrated in Figure 1-1. The steps are presented in sequential order.

1. **NOP and Initial Study**. Pursuant to the provision of Section 15082 of the CEQA Guidelines, the Trustees (as lead agency) issued a NOP for public review and comment (see Appendix A of this EIR). As required by CEQA Guidelines Section 15375, an NOP is a brief document sent by the lead agency to notify the responsible agencies, trustee agencies, the Governor's Office of Planning and Research (OPR), and other involved agencies that the lead agency plans to prepare an EIR for a project. The purpose of the notice is to solicit guidance from those agencies as to the scope and content of the environmental information to be included in the EIR and to solicit recommendations and develop information regarding the scope, focus, and content of the EIR.

   The public review and scoping period for the Campus Master Plan NOP was from August 30, 2019, to October 3, 2019, in accordance with Section 15082 of the CEQA Guidelines. In addition, CSUF held a scoping meeting on September 19, 2019, to give the public opportunity to receive more information on the Campus Master Plan and to provide comments and suggestions on the scope of the EIR. Comments on the scope and content of the EIR were received and written comments are included in Appendix B of this EIR.

2. **Draft EIR.** Public and agency review of the Campus Master Plan will be further encouraged through distribution of the Draft EIR for at least the required 45-day public review period. Due to current circumstances associated with COVID-19 (California Executive Order N-33-20), a public meeting to present the contents of this EIR and to receive written and oral comments will not be held. However, an online presentation video will be made available at the CSUF Master Plan website (https://masterplan.fullerton.edu) for the duration of the Draft EIR public review period.

   This EIR, as well as appendices and all supporting materials and references, can be found at the CSUF Master Plan website (https://masterplan.fullerton.edu). In addition, due to current circumstances associated with COVID-19, the campus and local public libraries are not accessible to the public for review of hard copies of the Draft EIR. Therefore, a limited number of flash drives will be made available to interested members of the public who may be unable to access the document online.

   Written comments should be submitted by mail, email or fax, with appropriate contact information, to the following:

Emil Zordilla
Director of Planning and Design – Campus Architect
Capital Programs & Facilities Management
California State University, Fullerton
800 N. State College Boulevard
Fullerton, California 92831
ezordilla@fullerton.edu
FAX: (657) 278-1094

Any agency, organization, or members of the public desiring to comment on the EIR must submit their comments prior to the end of the public comment period.

3. **Notice of Completion.** The provisions of Sections 15085(a) and 15087(a)(1) of the CEQA Guidelines require that as soon as the Draft EIR is completed, the lead agency must file a Notice of Completion (NOC) with OPR and that a public Notice of Availability (NOA) be provided to all organizations and individuals who have previously requested notification. The Trustees, serving as the lead agency, provided the NOC to OPR and circulated an NOA of the Draft EIR to campus organizations, in addition to public agencies, special districts, tribal representatives, organizations, and individuals that commented on the NOP and/or requested to be kept informed of the Campus Master Plan. In addition, CSUF placed a public notice in a local paper of general circulation within the project vicinity.
4. **Final EIR.** A Final EIR consists of the Draft EIR; revisions to the Draft EIR; responses to comments addressing concerns raised by individuals, organizations, and public agencies or other reviewing parties; and a Mitigation Monitoring and Reporting Program (MMRP). According to PRC Section 21081.6, for projects in which significant impacts would be minimized by mitigation measures, the lead agency must include an MMRP. The purpose of an MMRP is to ensure compliance with required mitigation measures during implementation of the project. After the Final EIR is completed, and at least 10 days prior to its certification, a copy of the response to comments on the Draft EIR will be provided or made available to all commenting parties.
5. **Certification of Final EIR.** Prior to making a decision on a Campus Master Plan, the lead agency must certify that: (a) the Final EIR has been completed in compliance with CEQA; (b) the Final EIR was presented to the decision-making body of the lead agency; and (c) the decision making body reviewed and considered the information in the Final EIR prior to approval (CEQA Guidelines Section 15090).
6. **Lead Agency Project Decision.** The lead agency may: (a) disapprove the project because of its significant environmental effects; (b) require changes to the project to reduce or avoid significant environmental effects; or (c) approve the project despite its significant environmental effects, if the proper findings and statement of overriding considerations are adopted (CEQA Guidelines Sections 15042 and 15043).
7. **Findings/Statement of Overriding Considerations**. For each significant impact of the Campus Master Plan identified in the EIR, the lead agency must find, based on substantial evidence, that either: (a) the Campus Master Plan has been changed to avoid or substantially reduce the magnitude of the impact; (b) changes are within another agency's jurisdiction and such changes have or should be adopted; or (c) specific economic, social, or other considerations make the mitigation measures or project alternatives infeasible (CEQA Guidelines Section 15091). If an agency approves a project with unavoidable significant environmental effects, it must prepare a written Statement of Overriding Considerations that sets forth the specific social, economic, or other reasons supporting the agency's decision.

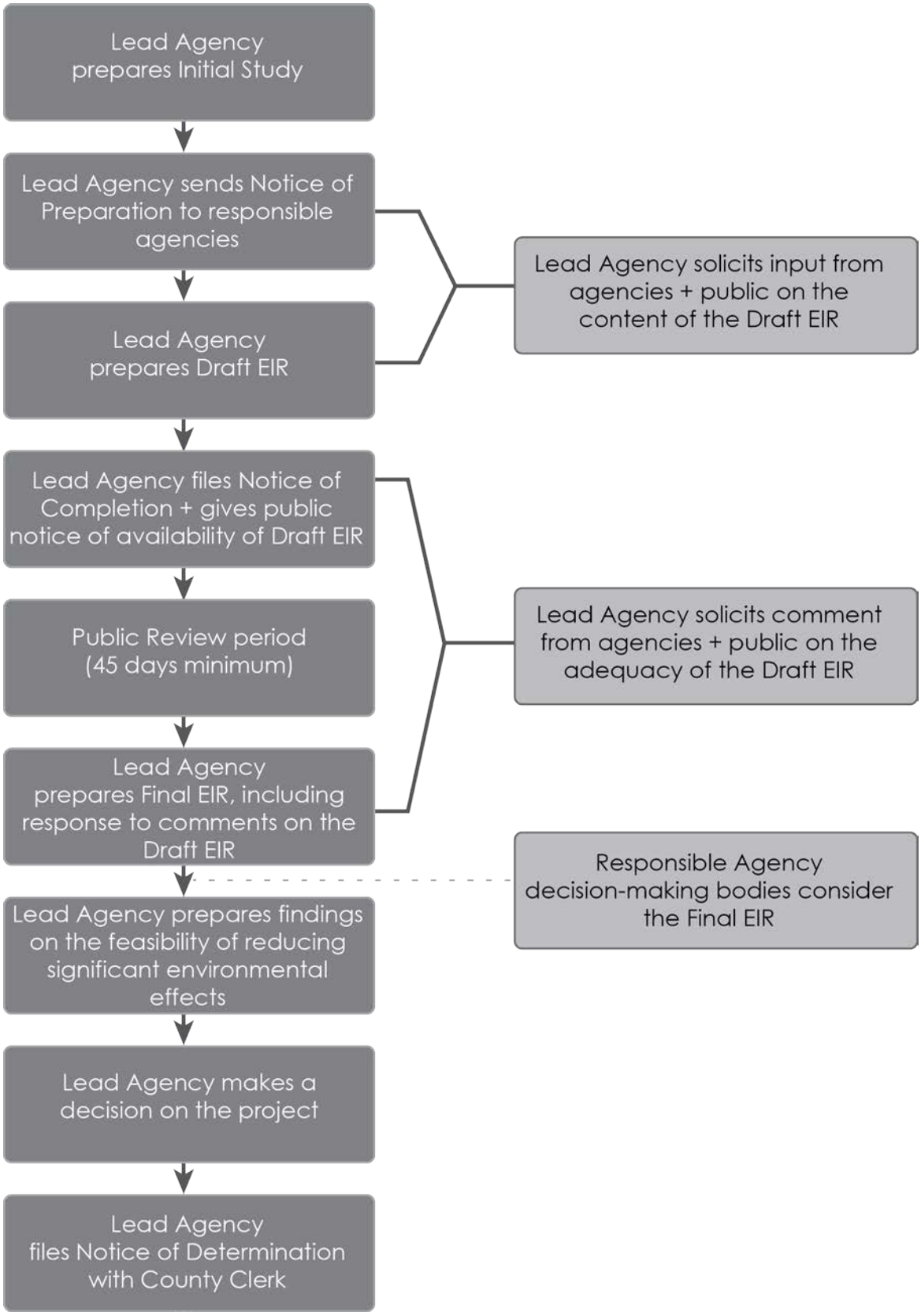
8. **Notice of Determination (NOD).** The lead agency must file a NOD after deciding to approve a project for which an EIR is prepared (CEQA Guidelines Section 15094). A local agency must file the NOD with the County Clerk. The NOD must be posted for 30 days and sent to anyone previously requesting notice. Posting of the NOD starts a 30-day statute of limitations on CEQA legal challenges (Public Resources Code Section 21167[c]).

1.6 Draft EIR Content

This Draft EIR is organized in two volumes (Volumes I and II). Volume I presents the potential project-level environmental impacts of the proposed project, and Volume II provides technical appendices. The contents of Volume I include the following:

- **Executive Summary** – presents a brief synopsis of the proposed project, including project objectives, and an overview of project alternatives. This section also provides a table summarizing project environmental impacts, mitigation measures, and the level of significance of impacts after mitigation.
- **Section 1, Introduction** – provides an overview of the purpose and type of EIR, the EIR process, the intended uses of the EIR, and an overview of the format and contents of the EIR.
- **Section 2, Project Description** – provides a detailed description of the proposed project, including its location, background information, objectives, and physical characteristics.
- **Section 3, Environmental Setting** – provides a general overview of the environmental setting for the proposed project, including the regional setting and the project site setting.
- **Section 4, Environmental Impact Analysis** – presents an analysis of environmental impacts for each environmental factor. Each subsection contains a description of the environmental setting (or existing conditions); identifies the significance criteria used to determine whether impacts would be significant or less than significant; discusses the impacts; describes mitigation measures to reduce significant environmental impacts; and describes cumulative impacts.
- **Section 5, Cumulative Impacts –** provides information required by CEQA regarding cumulative impacts that would result from implementation of the Campus Master Plan together with other present and probably future projects.
- **Section 6 - Other CEQA Considerations** – summarizes impacts that would result from the proposed project, including significant environmental effects, significant and unavoidable environmental effects, irreversible changes to the environment, and growth-inducing impacts.
- **Section 7, Alternatives** – describes potentially feasible alternatives to the proposed project that may attain most of the basic project objectives while avoiding or substantially lessening any of its significant effects. The analysis evaluates the environmental effects resulting from each alternative, compares these effects to those resulting from the proposed project, and describes the relationship of each alternative to the project objectives.
- **Section 8, References** – lists the documents and materials referenced in the text of the document.

Figure 1-1 Environmental Review Process



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2 Project Description

2.1 Introduction

California State University, Fullerton (CSUF or University) is one of 23 campuses in the California State University (CSU) system. CSUF consists of eight colleges, including The Arts, Business and Economics, Communications, Education, Engineering and Computer Science, Health and Human Development, Humanities and Social Sciences, and Natural Sciences and Mathematics. In keeping with its state charter and California Education Code 66202.5 and in response to projections of continued increases in demand for higher education enrollment to meet California's future workforce needs, the CSU Board of Trustees (Trustees) has directed each CSU campus to take the necessary steps to accommodate additional systemwide enrollment increases (CSU 2017a, 2019a). To comply with this directive, CSU campuses are required to periodically review and revise their master plans, in part to ensure that proposed capital improvement programs remain consistent with those plans.

This section provides a detailed description of the proposed Campus Master Plan Update, including the project location, major project components, project objectives, and approvals needed for implementation.

2.2 Campus Location

2.2.1 CSUF Campus

The campus of CSUF (campus) is located at 800 North State College Boulevard in the City of Fullerton, Orange County, California. The campus is located in the northern portion of Orange County and in the eastern area of the City of Fullerton, about 1,000 feet west of the Placentia city limit, two miles northeast of downtown Fullerton, 3.25 miles northeast of downtown Anaheim. The campus encompasses approximately 240 acres. Figure 2-1 and Figure 2-2 show the campus location. The main campus is bounded by Yorba Linda Boulevard to the north, Nutwood Avenue to the south, State Route 57 (SR 57) (the Orange Freeway) to the east, and North State College Boulevard to the west. Three smaller areas are also part of the campus, including a block which lies on the southern side of Nutwood Avenue, bounded by Langsdorf Drive to the east, College Place to the south, and North Commonwealth Avenue to the west. Additional campus areas are located on the west side of North State College Boulevard, south of Dorothy Lane, north and east of La Vista High School, and north of Yorba Linda Boulevard, east of North State College Boulevard and Almira Avenue.

2.2.2 Surrounding Land Uses

The area surrounding the campus is developed with residential uses, educational institutions, and mixed commercial uses. North of Yorba Linda Boulevard is the private, nonprofit healthcare graduate school Marshal B. Ketchum University, multi-family residential developments, and the Dong Shin Church of China. The campus abuts SR 57 to the east, with multi-family developments located east of SR 57. South of Nutwood Avenue is Hope International University, University Plaza office complex, College Plaza commercial complex, and multi-family residential complexes. West of North State College Boulevard are La Vista High School, Troy High School, and single-family residential neighborhoods. Buildings associated with surrounding uses are generally one to three

stories in height, with a few taller structures such as the church steeple/tower of the Dong Shin Church of China.

2.3 Existing Campus Conditions

2.3.1 Existing Campus History and Master Plan Background

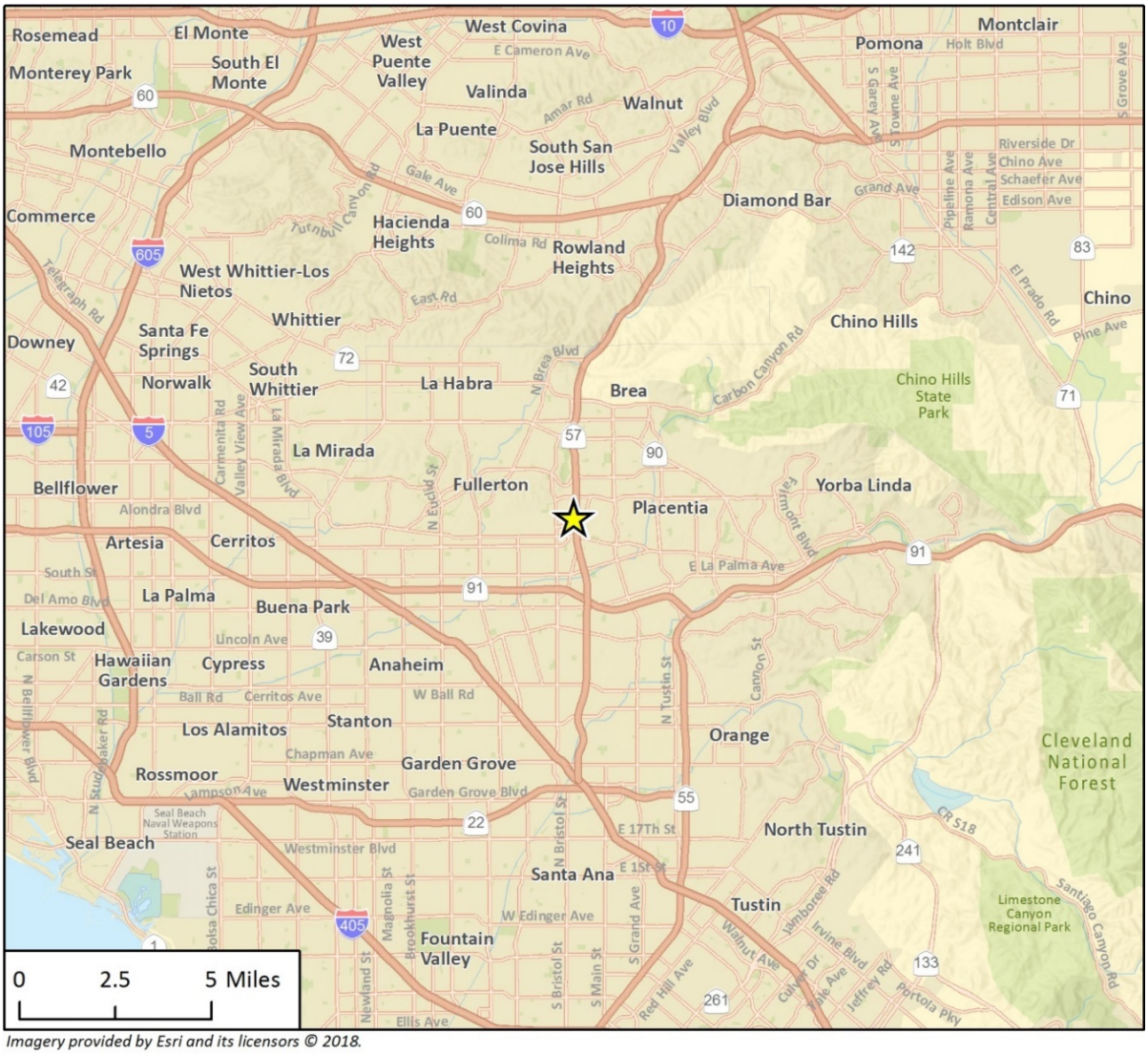
The CSUF campus was founded in 1957 and officially became part of the CSU system in June 1972 (CSUF 2017). Much of the early campus was designed by Mid-Century modern architects including Howard Van Heuklyn and Thornton Abel, whom envisioned a modern and urban design for the campus. Many of the campus facilities and buildings were originally constructed in the 1960's, with the campus gradually expanding its building footprint through the early 2000's. Today, CSUF is the second largest university in the CSU system (CSU 2019) with total full-time equivalency students (FTES) increasing from 25,000 to 32,000 by 2039 at an increasing rate of one percent annually. The footprint of the campus has accommodated a considerable increase in student enrollment with a number of facilities developed in the last decade.

CSUF has become one of the top two largest universities within the CSU system periodically accommodating the largest FTES enrollment of any of the 23 campuses, since approval of the 2003 Campus Master Plan (2003 Master Plan). The 2003 Master Plan is now outdated and inadequate to accommodate CSUF's continued growing demand. Moreover, CSUF and the City of Fullerton have undergone considerable demographic, economic, political, and social changes within the last decade and a half. The Campus Master Plan provides a framework for managing future campus growth and change, as well as the campus's relationship with the City in a strategic and orderly way.

However, many of the current facilities on campus are inadequate, and the condition and state of infrastructure amongst many of the facilities are overdue for renovations and improvements. The campus has undergone Facility Condition Assessments to determine the current state of facilities on campus. The assessments were conducted in 2018 by Flad Architects, the lead architects for the Campus Master Plan. A Facility Condition Assessment is a method to analyze the condition of facilities based on factors such as age, design, and construction materials. Each facility on the campus has received a Facility Condition Needs Index (FCNI) score to prioritize facility updates based on existing need. The score is calculated by comparing total facility deficiencies to total replacement cost (Emory 2005). The higher the percentage, the higher the degree of deterioration of a facility. A building with an index score less than 10 percent is considered to be in excellent condition, while a building with an index score between 30 and 50 percent is considered to be "below average." Many of CSUF's buildings have received a "below-average" FCNI score, including, but not limited to, Dan Black Hall, Gordon Hall, Humanities-Social Sciences, Clayes Performing Arts Center, Pollak Library, Student Health and Counseling Center, and the Titan Student Union. Additionally, a number of buildings have received a designation of Complete Facility Replacement Indicated (CFRI), indicating a FNCI score at or above 60 percent that the building has reached the end of its lifespan. Buildings that have received a CFRI designation include facilities in the visual arts wing, Titan Bookstore, Golleher Alumni House, Education Classroom, and facilities in the Computer Science wing. Figure 2-3 illustrates existing facility conditions on campus.

The campus has striven to keep up with the rapid growth that has been occurring over the past decade. CSUF has gradually invested in facilities to improve resources and overall quality of life on campus. Recent structures on campus include three new parking structures, the Mihaylo College of

Figure 2-1 Regional Location



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Project Site

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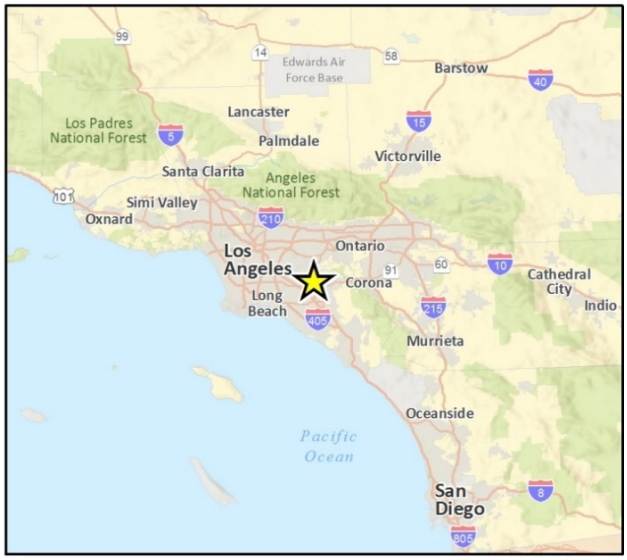

Figure 2-2 Project Site Location

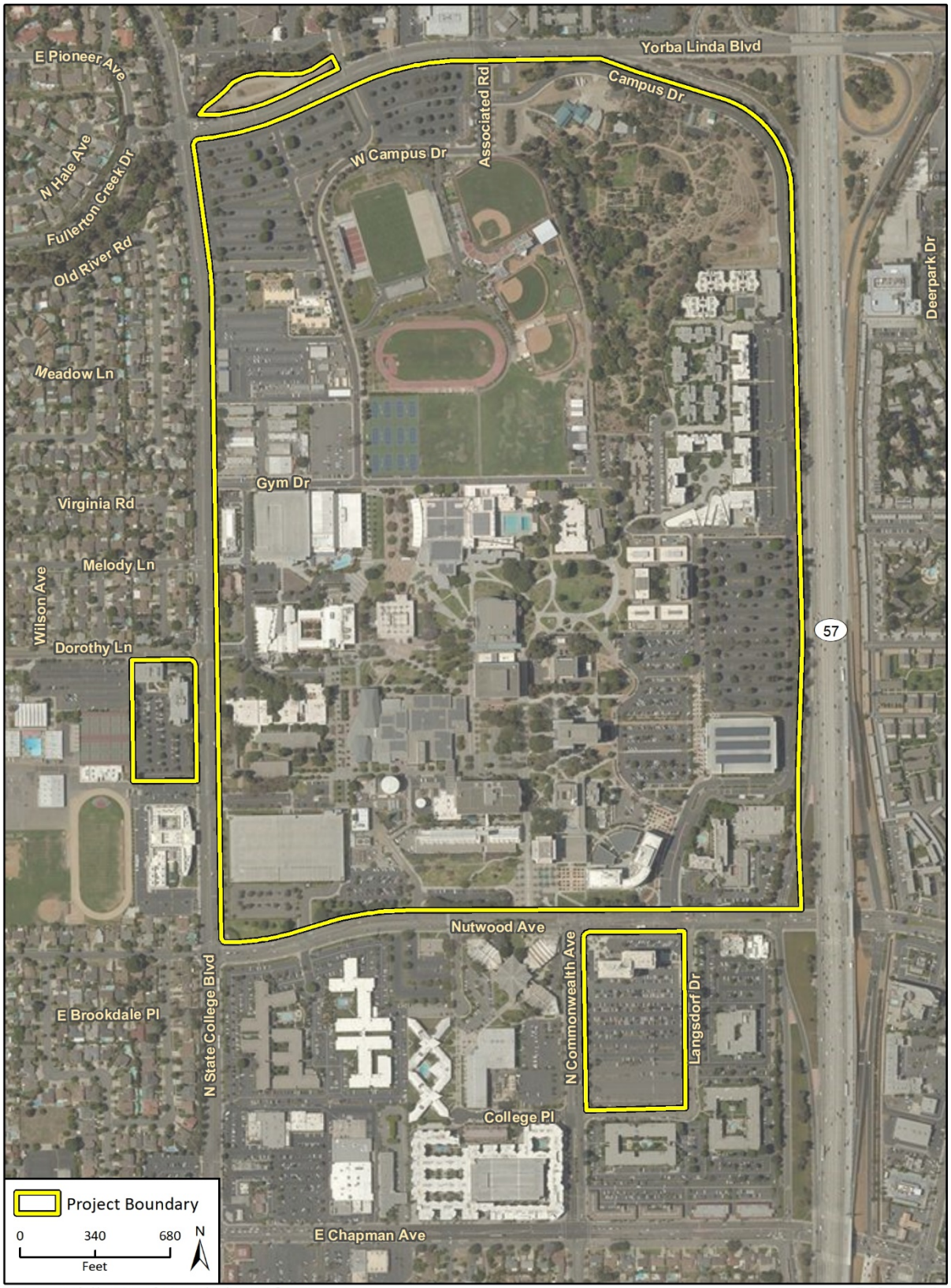

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Fig 2 Project Location

Figure 2-3 Existing Facility Conditions

Business and Economics, the Student Recreation Center, the University Police and Emergency Operations Center and a new residence hall complex that accommodates 1,900 residents. Though these facilities have greatly helped accommodate past growth, CSUF acknowledges a need to continue to invest in and improve on-campus facilities for both students and faculty. The Campus Master Plan will provide a guideline for improving current on-campus facilities while also guiding new construction through 2040. It aims to address the need for improved recreational facilities, additional on campus housing, updated academic buildings and more efficient circulation. Through gradual phased development, the Campus Master Plan strives to improve quality of life and create an enjoyable experience for students, staff, and visitors by facilitating multimodal transit, creating spaces for recreation opportunities, and developing the campus in an environmentally sustainable way.

2.3.2 Student Enrollment, Faculty, and Staff: Existing Populations and Projected Growth

Policies Governing CSU Enrollment Growth

The CSU Board of Trustees requires each CSU campus to have a Campus Master Plan which depicts and explains existing and anticipated facilities necessary to accommodate a specific enrollment target at an estimated target date or planning horizon, in accordance with approved education policies and objectives. CSU negotiates with the State of California annually for funding to support planned enrollment growth each year. The annual State budget identifies anticipated enrollment growth systemwide each year. Following negotiation, CSU allocates enrollment growth funding for California residents according to an enrollment growth target for each CSU campus. Each campus is expected to manage enrollment rates within a small margin of error around the target enrollment rate as they only receive State and CSU funding for the target number. Individual campuses like CSUF establish long-term enrollment goals through the Campus Master Plan process. This sets a future capacity that the campus can work towards and plan for.

Evolution of Student Enrollment Growth

CSUF has seen steady enrollment growth since it first opened its doors in 1957. In the first decade of CSUF, the school built seven permanent facilities and grew to approximately 9,500 FTES (CSUF 2019b). During the 1970's, enrollment grew by 36 percent and five additional prominent facilities were completed. By the 1980s and 1990s, as the campus expanded, new buildings were constructed primarily on the periphery of the central quad. Housing was constructed in the 1990s along the eastern border of the campus whereas permanent and portable academic buildings essentially "filled in" the periphery of the campus. The 2003 Master Plan increased the enrollment capacity for the campus from 20,000 to 25,000 FTES. The last ten years have displayed exponential growth for CSUF, averaging an increase of 1.2 percent annually with some years, like 2012, reaching five percent. Today, CSUF has approximately 25,000 FTES, and is staffed by 2,151 full and part time faculty and staff. To accommodate student and faculty/staff enrollment growth, there are currently 109 permanent buildings totaling approximately 5.6 million gross square feet (gsf). To date, CSUF has witnessed approximately 254,000 students graduate.

Projected Growth and Demand

CSUF is ranked sixth in the nation in Bachelor's degrees awarded to minority students. Additionally, the Mihaylo College of Business and Economic is one of the state's largest nationally accredited

undergraduate business programs, and its drama and musical theater programs are all nationally recognized. CSUF has one of the largest applicant pools in the CSUF system and is now considered an impacted campus for all disciplines and majors for first time freshman. As a result, CSUF has had to implement more rigorous standards for applicants. In Fall 2019, the campus accepted only 43 percent of applicants. The Department of Finance's demographic unit anticipates an uptick in graduation rates through the year 2023. Incremental statewide graduation rates combined with the number of transfer applicants from the California Community College system due to The California Promise will result in anticipated increases in student enrollment demand.

The Campus Master Plan sets a new enrollment target of 32,000 FTES, and accounts for future campus development required to accommodate this enrollment target. With the addition of 7,000 students and approximately 1,000 new faculty/staff to support student enrollment growth, additional facilities and resources are strategically implemented in phases through 2039.

2.3.3 Existing Campus Conditions

The campus is bisected by Gymnasium Campus Drive and is characterized by a central core of academic buildings in its southern half, with athletic facilities, residential housing, the Fullerton Arboretum, and parking areas primarily located in the northern portion of the campus.

Northern Campus

The northern portion of the campus consists mainly of the Arboretum, athletic facilities, student housing, the Child Development Center, and buildings for support services such as the Corporation Yard.

The 26-acre Arboretum, located in the northeastern portion of campus (shown on Figure 2-2), serves as a regional resource for research, recreation, education, and agricultural heritage. The Arboretum is accessed from West Campus Drive and North Campus Drive off Yorba Linda Boulevard, and is bounded by Folino Drive to the north, SR 57 to the east, a campus bicycle path and athletic fields to the west, and student residential housing to the south. The Arboretum is open to the public and contains waterfalls, ponds, trails, and plant collections. The Arboretum is one of only 21 arboretums in the world to be awarded Level IV accreditation for its plant collection and educational value. The Arboretum includes a visitor center, Heritage House historic building, plant nursery, and garden sale area. CSUF students use the space to complete research projects, and the Arboretum is also used for K-12 education and community programs.

The Arboretum began in a field of the region's iconic orange groves, and officially opened to the public in 1979. On March 24, 1976, a Joint Exercise Powers Agreement (JPA) was created between the Redevelopment Agency of the City of Fullerton and the Trustees creating an agency to be known as the Arboretum Authority. Part of the CSUF's contribution to the JPA was to grant the Arboretum Authority use of University owned land. In 1977, the Authority entered into a Site Lease with the University. The JPA is set to terminate in December 2020, with the Arboretum Authority maintaining responsibility for the living collections and the historic collections through December 3, 2020. At that time management and operation of the Arboretum will fall back to CSUF, who will administer the facility through CSUF Extension and International Programs (CSUF 2019b).

Most of CSUF's athletic program facilities are also located in the northern half of the campus. CSUF competes in 10 different sports, overseen by the Athletic Department. Athletic facilities consist of Titan Stadium, Goodwin Field, Anderson Family Field, and the Titan Sports Complex. Many of the athletic facilities are bordered by West Campus Drive, operations service buildings and paved

parking lots to the north and west, Gymnasium Campus Drive to the south, and the Arboretum and student housing to the east.

Most of CSUF's on-campus student housing is in the northern half of the campus. Residence halls are the most common type of on-campus housing for first-year students. Bedrooms in the residence halls are approximately 12 feet wide by 11 feet long and fit two or three twin extra-long beds. Each bedroom is equipped with closets, a dresser and a desk. Bedrooms in residence halls are clustered around community bathrooms, activity rooms, and study rooms. There are six meeting rooms located on the lobby floor of each residence hall. Additionally, the residence halls have access to a computer lab located in the Academic Resource Center, a fitness room located on the lobby of Cypress Hall, laundry rooms located in Cypress Hall and Juniper Hall, and a multipurpose room located in Cypress Hall. CSUF's residence halls are built with sustainable materials and incorporate sustainable components. Currently, there are approximately 2,000 student beds on campus and six faculty and staff beds.

As indicated in Figure 2-4, campus residence halls center around The Gastronome, the primary dining hall for on-campus residents. Students obtain a meal plan when registering for on-campus housing and have access to campus dining. Additionally, the Community Market and Late Night Café, both located adjacent to The Gastronome, offer quick grab-and-go dining options.

Southern Campus

The southern portion of the campus is located south of Gymnasium Campus Drive. The southern portion of campus consists mainly of academic buildings, student support services, campus recreation facilities, and parking lots and structures. Academic buildings include Kinesiology and Health Sciences, Steven G. Mihaylo Hall, College of Humanities and Social Sciences, Pollak Library, Student Health and Counselor Services, Clayes Performing Arts Center, Education Classroom, Dan Black Hall, Langsdorf Hall, Gordon Hall, McCarthy Hall, Engineering, and Computer Science. Buildings are set among outdoor areas landscaped with lawns and other ornamental vegetation.

Student support and recreational facilities in the southern portion of campus include the Titan Bookstore, Titan Student Union, and the Student Recreation Center. The Titan Student Union serves as the primary gathering place for the campus community and includes event space, student art galleries, Titan Bowl & Billiards, a food court, automated teller machines, and ticket sales. The Student Recreation Center is available for both students and faculty and includes a full gym, basketball courts, a swimming pool, rock wall, private rooms for group exercise classes, and a children's center. Both the Titan Student Union and the Student Recreation Center are located on the western side campus east of Student Union Drive and west of Titan Walk.

Additionally, the campus quad, also known as The Piazza, marks the heart of the southern half of campus, or the campus core, as many of the academic buildings are strategically centered around the quad. The quad serves as an outdoor recreation and relaxation space for both students and faculty and consists of outdoor seating, speakers, and landscaping for student and faculty relaxation and enjoyment. Figure 2-5 illustrates the general layout of land uses on campus and Figure 2-6 through Figure 2-23 show photos of select campus facilities.

Figure 2-4 Campus Housing Map

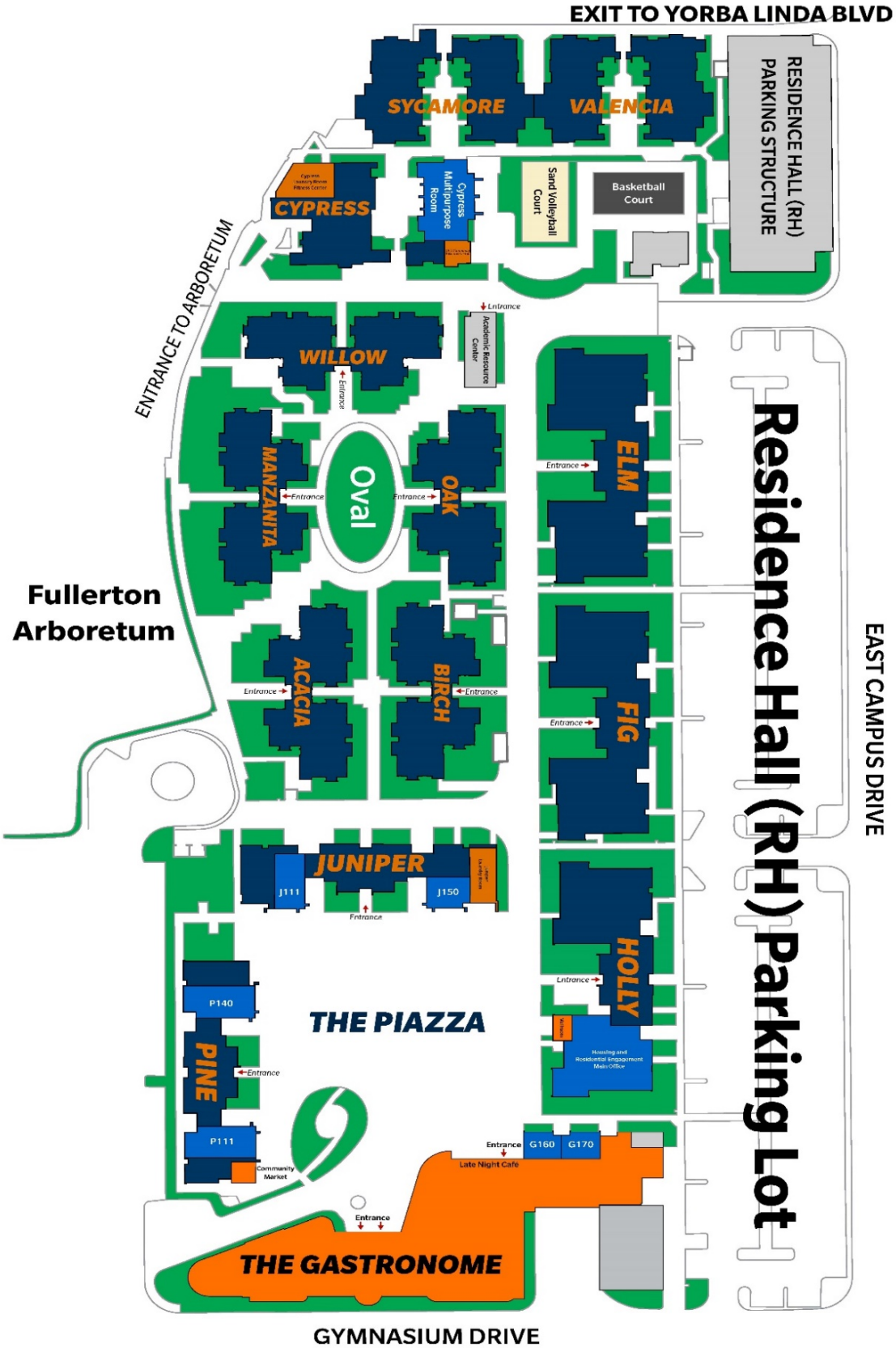


Figure 2-5 Campus Conditions

Figure 2-6 Campus Entrance from North State College Boulevard

Campus entrance along North State College Boulevard adjacent to Nutwood Parking Structure. This is one of the main campus entrances on the west side.

Figure 2-7 Titan Student Union

Main entrance to the Titan Student Union in the campus core.

Figure 2-8 Looking West to the Entrance of the Student Union

Figure 2-9 Student Recreation Center North Elevation – Main Entrance

Figure 2-10 Looking West at the Entrance of the OC Agricultural and Hikkei Heritage Museum

Figure 2-11 Looking East at the South Lake in the Arboretum

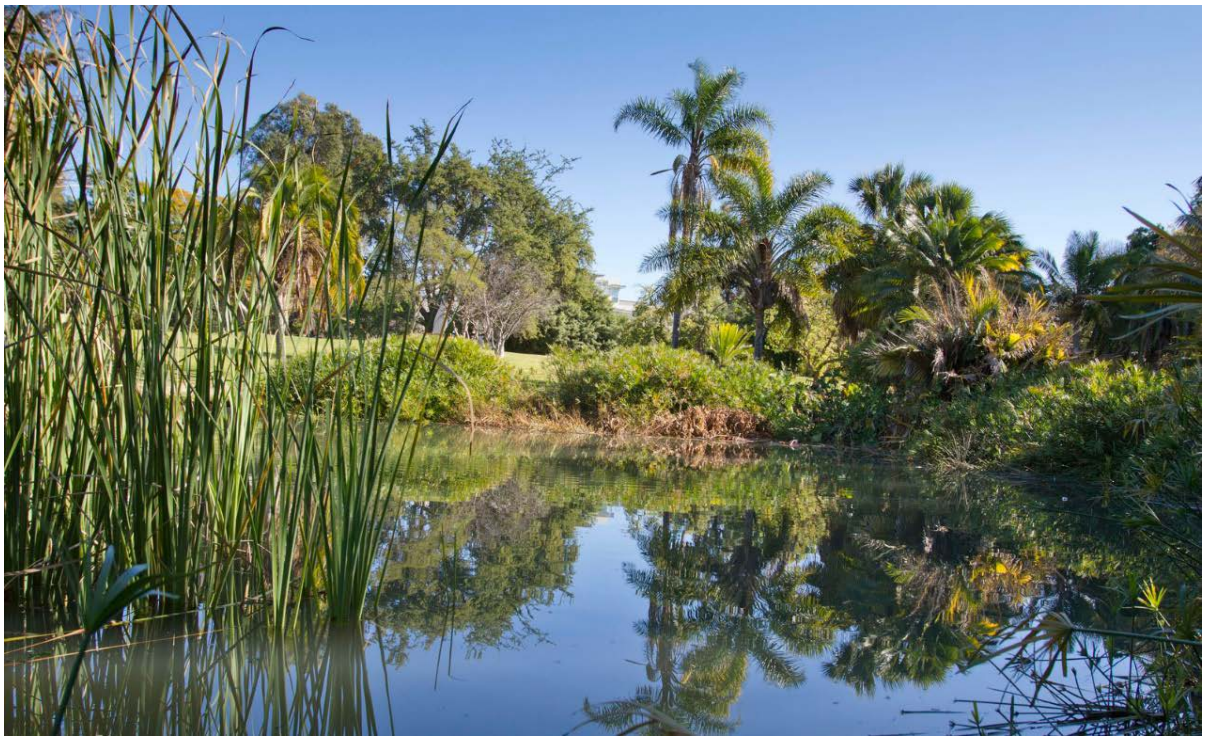


Figure 2-12 Aerial View of The Piazza (main quad) and the Pine and Juniper Residence Halls Looking West

Figure 2-13 Looking Northwest in The Piazza towards the Juniper and Pine Residence Halls

Figure 2-14 Looking Southwest towards the Entrance to The Gastronome from Residence Hall Quad

Figure 2-15 Looking North towards the Holly and Juniper Residence Halls

Figure 2-16 Looking Southwest at Pollak Library

Figure 2-17 Looking South towards Langsdorf Hall

Figure 2-18 Looking North towards Steven G. Mihaylo Hall

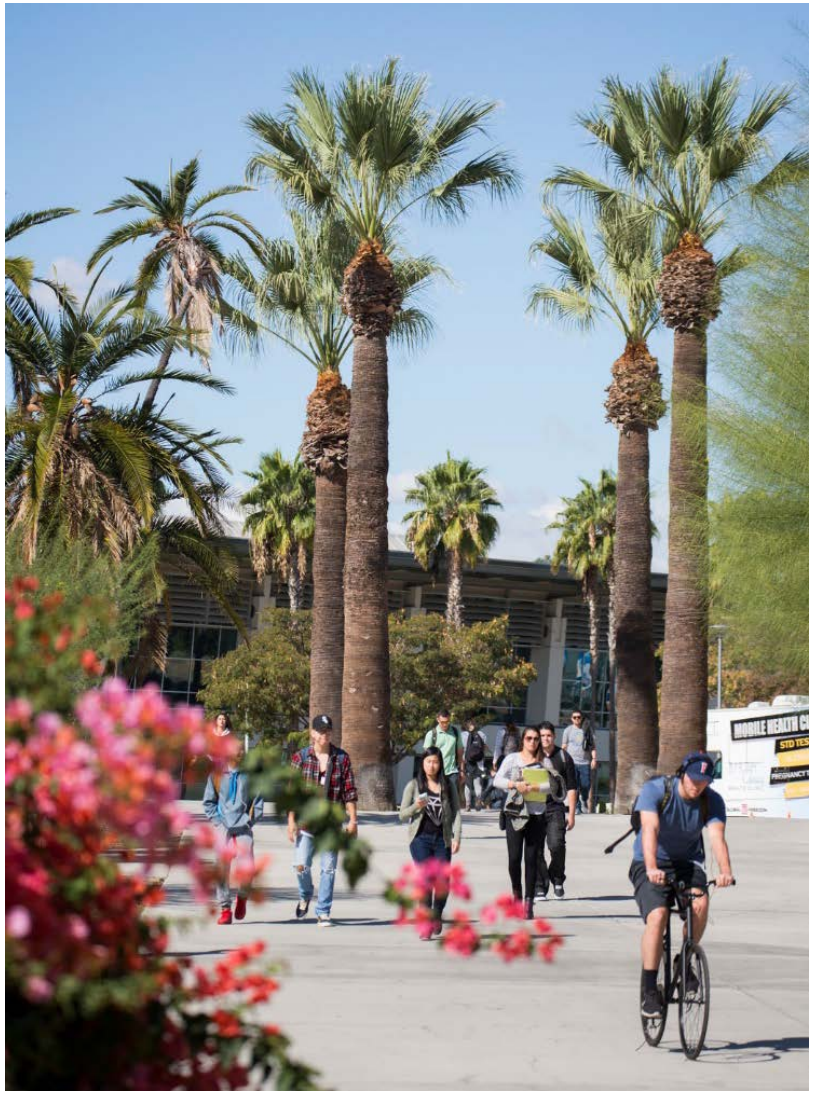
Figure 2-19 Looking North Towards Juniper Residence Hall

Figure 2-20 Student Residence Halls

Figure 2-21 Entry for Humanities and Sciences

Figure 2-22 Looking North at the Campus Quad Walkway

Figure 2-23 Northern portion of the Campus Quad Walkway



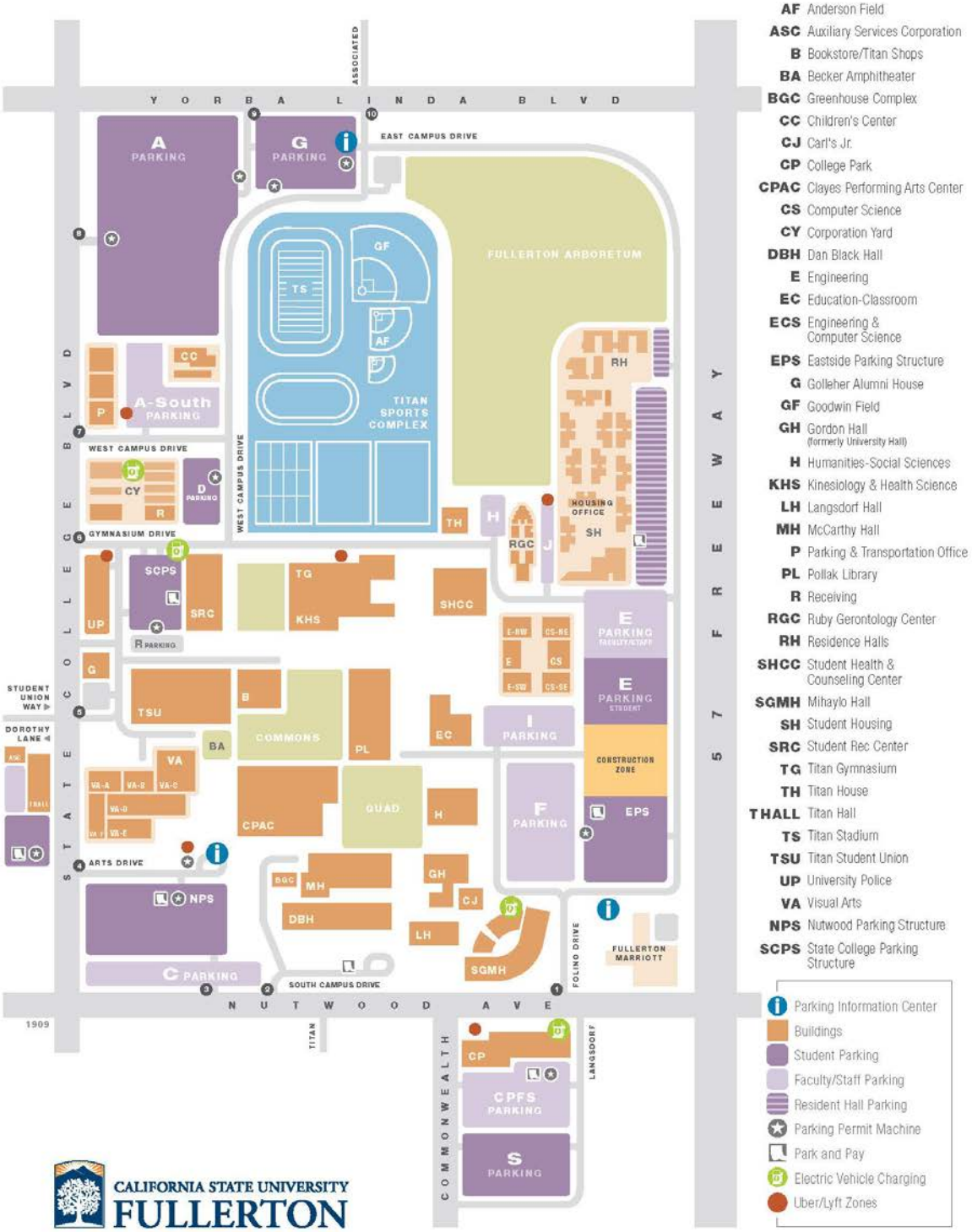
2.3.4 Existing Campus Access, Circulation, and Parking

There are ten points of vehicular access to the main CSUF campus along Yorba Linda Boulevard, North State College Boulevard, and Nutwood Avenue. The eastern edge of campus runs parallel to SR 57, prohibiting access to the campus from the east. Figure 2-24 illustrates the access points and parking areas on campus. There are two access points on the northern edge of campus (Access Points 9 and 10), five access points on the western portion of campus (Access Points 4, 5, 6, 7, and 8) and three access points on the southern edge of campus (Access Points 1, 2, and 3). Access Points 8, 9 and 10 lead to student parking lots A and G. Access Point 7 leads to the staff parking lot A-South. Access Points 5 and 6 primarily lead into campus for pick-ups and turnarounds. Access Point 4 leads to the student Nutwood Parking Structure. Access Point 3 leads to the Staff Parking Lot C. Access Points 1 and 2 lead into campus with Access Point 1 also leading to parking lots and structures located on the east side of campus. The campus layout is designed to serve students who commute to and from the campus. Building layout was planned so that walking time between classes does not exceed ten minutes. Bicycle and pedestrian paths are webbed throughout campus, with bike racks and additional infrastructure provided for students to secure personal methods of transportation. Main academic and administrative functions are in the center of campus, while vehicular circulation, parking lots, and parking structures are located around the periphery.

On-campus parking for students and faculty is available via parking permit or a daily parking fee. The northern portion of campus contains several paved parking lots (Lots A, G, D, H, J and residential parking located adjacent to the housing). The southern portion of campus contains Lots R, C, F, I, and E and the University's three main parking structures: North State College Parking Structure in the western portion of campus just south of Gymnasium Drive, Nutwood Parking Structure in the southwest corner of campus near North State College Boulevard and Nutwood Avenue, and the most recent parking structure, Eastside Parking Structure in the southeast corner of campus and accessed via Folino Drive off Nutwood Avenue. The current total number of on-campus parking spaces is 12,340. Additionally, off-site parking is available for students and faculty at the EvFree Church at East Bastanchury Road and South Brea Boulevard. CSUF provides a shuttle from the EvFree Church to the campus which runs every 10 to 15 minutes.

In addition to on and off-campus parking, CSUF includes several alternative methods of transportation. The CSUF Bike Program encourages students to use designated bike paths to commute to and travel within the campus. Through the program, students can receive free bike safety checks as well as discounts on new bicycles and bicycle parts. The CSUF Bus Pass (U-Pass) program allows students to ride on all local Orange County Transportation Authority (OCTA) routes for a highly discounted rate. The Amtrak and Metrolink rail station is approximately 2.25 miles southwest of campus in downtown Fullerton and student discounts are available on rail fare. In addition, CSUF recently initiated the Zipcar CarShare program, which offers students temporary access to campus vehicles for students who don't have access to a personal vehicle.

Figure 2-24 Existing Campus Access and Parking



2.4 Project Objectives

The underlying purpose of the Campus Master Plan is to support the University's Academic Master Plan and the CSU's Graduation 2025 Initiative by guiding physical campus development through the year 2039 in ways that support anticipated enrollment growth and changes in pedagogy, academic and support programs, energy supplies and use, utility infrastructure, and transportation. CSUF's commitment to its students is underlined in the Campus Master Plan through the inclusion of the following overarching goals:

- Serve the future of society by providing a robust and relevant education.
- Improve graduation rates.
- Support problem-based learning.
- Promote research as learning and basic research as vital components of this knowledge-based community.
- Promote cross-discipline collaboration.
- Increase quality student/professional interaction.
- Build community connection and support.

The following objectives of the Campus Master Plan have been established in support of its underlying purpose:

- Enable the university to accommodate incremental planned enrollment growth in the future as required by the CSU.
- Construct new academic facilities that can house programs to fulfill the pedagogic needs of the future and contribute to meeting demand created by planned enrollment growth.
- Improve the connectivity and cohesion of physical spaces on campus and with improved linkages to Downtown Fullerton and public transit.
- Enable the campus to function as a 24-hour hub for student life through increased building density with amenities and access to goods and services in the campus core, the addition of student beds, informal and after-hours work spaces for students, and improved nighttime security.
- Restore the Green Loop that circumnavigates the campus to better function as an organizing feature for academic facilities and open space.
- Increase the density of academic facilities in the campus core to support program growth and change and enable cross-disciplinary collaboration in a space-efficient manner.
- Develop an Innovation Hub that allows students to experiment with processes and prototypes for the future, to serve all sectors of society.
- Establish an event center on campus for daily use by the entire campus community.
- As the campus resumes primary responsibility for management of the Arboretum, balance preservation of its natural and historic resources, protection of its function as a place of solitude and reflection for campus and community members, and enhancement of its use for academic purposes.
- Provide an additional 2,400 student beds and a range of residential options and associated amenities on campus, to support improved rates of retention and graduation for freshman and other students.

- Provide 350 units of faculty housing.
- Improve alternative, multimodal access to campus and reduce reliance on personal vehicle use and parking demand.
- Replace and improve storm management infrastructure to reduce the incidence of flooding.
- Incorporate resilience into the Campus Master Plan through emergency management planning and established locations for emergency operation centers and material storage.

2.5 Project Characteristics

The Campus Master Plan is a guide for the future development of the CSUF campus and is an update of the 2003 Master Plan. CSUF certified an Environmental Impact Report (EIR) for the 2003 Master Plan in August 2003. Figure 2-25 and Figure 2-26 illustrate the Campus Master Plan facilities plan, including proposed renovation and development.

According to the CSUF Division of Academic Affairs, CSUF reached the 25,000 on-campus FTES ceiling in the 2016-2017 academic year. The Campus Master Plan is designed to accommodate a 32,000 FTES ceiling through the year 2040, representing an increase of 5,000 FTES (20 percent) enrolled on the main campus. This ceiling would result from growth rate of 357 FTES per year, or a one percent annual increase. These FTES increases are based on anticipated future demand for CSUF's services. The Campus Master Plan would accommodate, not cause, these projected FTES increases, which are projected to occur with or without implementation of the Campus Master Plan. Expected FTES by four-year increments is shown in Table 2-1.

Table 2-1 CSUF Expected Enrollment (FTES)

2018	2022	2026	2030	2034	2038	2039
25,911	26,963	28,057	29,197	30,382	31,616	31,932

Notes: FTES calculated estimating a one percent growth rate

Source: Flad Architects, October 17, 2018

The Campus Master Plan is a strategy for modifying the physical campus of CSUF to accommodate expected growth and presents an overall picture of the future of the CSUF campus. The Campus Master Plan includes recommendations for land use, construction, enhancement and replacement of existing facilities, mobility networks, and sustainable practices. The land use plan included in the Campus Master Plan enables continuity between campus land uses which currently have distinct delineations, such as areas devoted to Academic, Athletics, and the Arboretum. The Campus Master Plan would replace facilities in need of demolition and add new facilities that would provide academic, housing, and recreational uses to support the anticipated increase in FTES and faculty/staff. These renovations and additions would increase informal learning spaces and improve dining and campus living amenities for the campus population.

To achieve the project objectives, the Campus Master Plan would replace and renovate several facilities including the Health Sciences building, Titan Bookstore, Education Classroom building, the single-level engineering buildings, visual arts buildings, anthropology storage facilities, the Goodwin Field Press Box, and the corporation yard/management facilities. In addition, the Campus Master Plan proposes to add additional student housing (approximately 3,000 beds) and new campus amenities including a recreation center, student building, wellness center, and student success center. Furthermore, there would be the addition of faculty housing along with living learning

communities (LLCs), retail space, an innovation center, an event center with a capacity of 6,000 people, mobility hubs, and parking structure(s). These new and updated facilities would provide more opportunities for students to live and work on campus, reduce the need for single-occupancy vehicles and make the overall campus more accessible to commuter and non-commuter students.

2.5.1 Campus Districts

CSUF is seeking to create a dynamic campus with daytime, evening, and weekend activities by applying urban design techniques that support vibrant and cohesive districts. The Campus Master Plan identifies three primary districts within the campus: the Events and Innovation District, the Mobility Hub and Entrance District, and the Residential and Student Life District. Figure 2-27 illustrates the approximate locations of these three proposed districts.

Residential and Student Life District

The Residential and Student Life District would be in the northern area of campus and would create a welcoming environment for on-campus student housing. New student residence buildings would be developed in this district, and one building in the district would be entirely dedicated to student amenities to provide non-academic spaces for student programming and recreation. Recommendations for this area are:

- Develop clear pedestrian pathways between student housing, the student union, and the Green Loop
- Include courtyards that support adjacent uses and provide a semi-private public realm
- Utilize versatile landscaping for informal recreation and gathering opportunities

Events and Innovation District

The Events and Innovation District would be centered on the proposed 6,000-seat Event Center and the Innovation Hub. The goal of this district is to become the counterpart of the student Residential and Student Life District in order to draw students from other parts of campus. Recommendations for this district include:

- Establish a café in the events plaza on the ground floor
- Create clear pedestrian pathways between the Performance Center, Event Center, and Innovation Hub
- Place art at strategic nodes
- Maintain landscaping that creates a central outdoor space for the district
- Include a retail space in the Innovation Hub
- Create clear pedestrian pathways to on-campus housing

Mobility Hub and Entrance District

The Mobility Hub and Innovation District would promote campus identity and increase activation of space on campus. This district would enhance existing campus entrance points and proposed mobility hubs to create places function as enjoyable places to linger and learn. Recommendations for this district include:

- Establish wayfinding information such as signage, pavers, and other physical cues

- Provide pedestrian connections from all main entrances to the Green Loop
- Place art at strategic nodes
- Incorporate outdoor seating into placemaking design
- Place a café or food access near main entrances

2.5.2 Academic Facilities

The Campus Master Plan proposes to add approximately 881,526 gsf of additional academic space. There are 16 academic buildings identified in the Campus Master Plan that would undergo renovations or total replacement. New academic buildings identified in the Campus Master Plan would not be associated with a certain department or discipline to allow for flexibility of uses. CSUF acknowledges the importance of preserving and expanding open space and non-academic facilities. Therefore, academic buildings would be infill development within the existing campus footprint and six stories in height. Academic buildings would be designed with opportunities for student life spaces on the lobby of each academic space, creating informal learning spaces outside of the classroom for student study sessions, meetings with faculty, and individual study sessions. Additionally, cafés and other student life spaces would provide opportunities for student and faculty connection and rapport.

Additional buildings proposed in the Campus Master Plan to enhance academic success are the Innovation Hub, Event Center, and new facilities in the Arboretum. Although not part of the academic entitled space, the Innovation Hub would support multi-disciplinary learning and academic success. The Innovation Hub has three primary goals: Promoting Multi-Disciplinary Learning; Fostering Industry Partnership; and Driving Entrepreneurship. The Innovation Hub would include spaces such as lecture or large group rooms, maker-spaces, computer labs, rooms for club meetings, study rooms, and meeting rooms for students and faculty to meet with members of the business community. The Innovation Hub would be equipped with state-of-the-art technology and would support economic development for the campus and greater community. The Event Center would be a vital addition to the campus and used to support sporting events, concerts, graduation events and job fairs, and would be available for use by the campus population and broader community. Located near the academic core, the Event Center would include and outdoor event plaza located near public transportation hubs. Additionally, programmatic changes proposed for the Arboretum would support academic success.

2.5.3 Residential and Student Life Facilities

The Campus Master Plan proposes additional on-campus housing for students and faculty/staff for several reasons. CSUF desires to create an active campus 24-hour a day, seven days a week, which would be accomplished by developing additional on-campus housing and related amenities. Additionally, housing near campus has been identified as a challenge for faculty and staff considering employment at CSUF. Providing additional housing on campus would ultimately improve retention and graduation rates by removing commuting barriers, allowing for more flexibility for staff/faculty, and extending hours for more learning and participation in student programming, study groups, and overall collaboration.

Figure 2-25 Campus Map Legend

California State University, **Fullerton**

Master Plan Enrollment: 32,000 FTE

Master Plan approved by the Board of Trustees: October 1962

Master Plan Revision approved by the Board of Trustees: January 1966, January 1967, May 1970, September 1970, January 1972, March 1974, September 1976, January 1983, July 1983, November 1985, September 1986, May 1987, July 1987, May 1993, November 2003

1a-s. Facilities Management & Corporation Yard
2. Miles D. McCarthy Hall
2b. Dan Black Hall
3. Joseph A. W. Clayes III Performing Arts Center
4. Kinesiology and Health Science Building
5a-b. Paulina June and George Pollak Library
6. Titan Bookstore
7. Humanities and Social Sciences Building
8a-f. Visual Arts Center
8g-h. *Visual Arts Center Replacement*
9. Langsdorf Hall
10 a-e. Engineering and Computer Science
11. Student Health and Counseling Center - West
12. Education Classroom Building
14. Titan Student Union
15. University Hall
16a-f. Central Plant Complex
17a. Modular Data Center - Building A
18. Nutwood Parking Structure
20. Carl's Jr. Restaurant
23. Plant Growth Facilities
24a-d. Jewel Plummer Cobb Residence Halls
25a-g. Student Housing, Phase 2
26. State College Parking Structure
27. Titan House
28. Landscape Operations Facility
29a-c. Parking and Transportation/EH/IS
30. Student Health and Counseling Center - East
31a-h. Arboretum/Heritage House/Visitors Center
31j-l. *Arboretum Facilities Upgrades*
32. Orange Co. Sanitation District Pumping Station
33. Student Recreation Center
35. Marriott Hotel
36a-g. Sports Complex
36h-l. *Sports Complex Additions*
37. Charles L. and Rachel E. Ruby Gerontology Center
38. Steven G. Mihaylo College of Business and Economics
39a-c. Military Science Leadership Excellence Center
40a-c. Chemical Storage
41. Visitor Information Center West
42. Visitor Information Center North
45. Visitor Information Center East
48. University Police
50. Golleher Alumni House
51. Science Laboratory Replacement Facility
52a-c. Children's Center, Phase 1
53a-f. Student Housing, Phase 3
54a-d. *Student Housing, Phase 5*
55a-c. *Student Housing, Phase 4*
59a. Eastside Parking Structure 1
59b. Eastside Parking Structure 2
70. College Park
71a-b. Titan Hall
74a. CCO Freeway Sign Monument
74b. CCO Freeway Sign Monument
74c. CSUF Freeway Sign Monument
75. *Academic Building A*
76. *Academic Building B*
77. *Academic Building C*
78. *Academic Building D*
79. *Academic Building E*
80. *Innovation Center*
81. *Academic Building F*
82a-c. *Engineering Complex A*
83a-b. *Engineering Complex B*
84. *Academic Building G*
85. *Event Center*
87a-f. *Student Housing, Phase 6*
89. *Faculty Housing*
90a. *North Parking Structure 1*
90b. North Parking Structure 2
91a-d. *Corporation Yard*
92. *Nutwood Avenue Bridge*
100. *Modular Building A*
101. *Modular Building B*
102. *Modular Building C*

02-1. President's Residence

LEGEND
Existing Facility / *Proposed Facility*

NOTE: Existing building numbers correspond with building numbers in the Space and Facilities Data Base (SFDB)

Figure 2-26 Campus Map

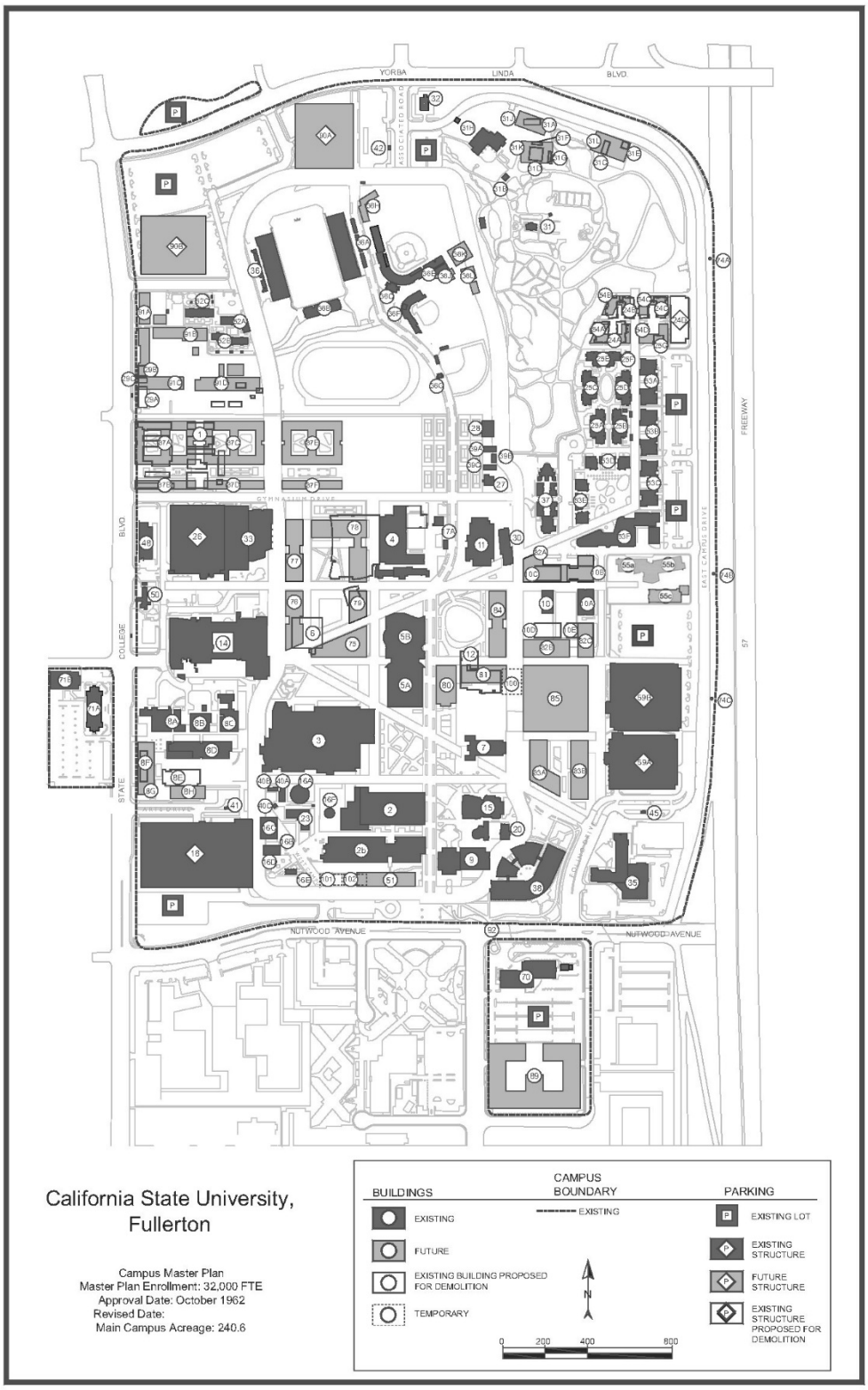
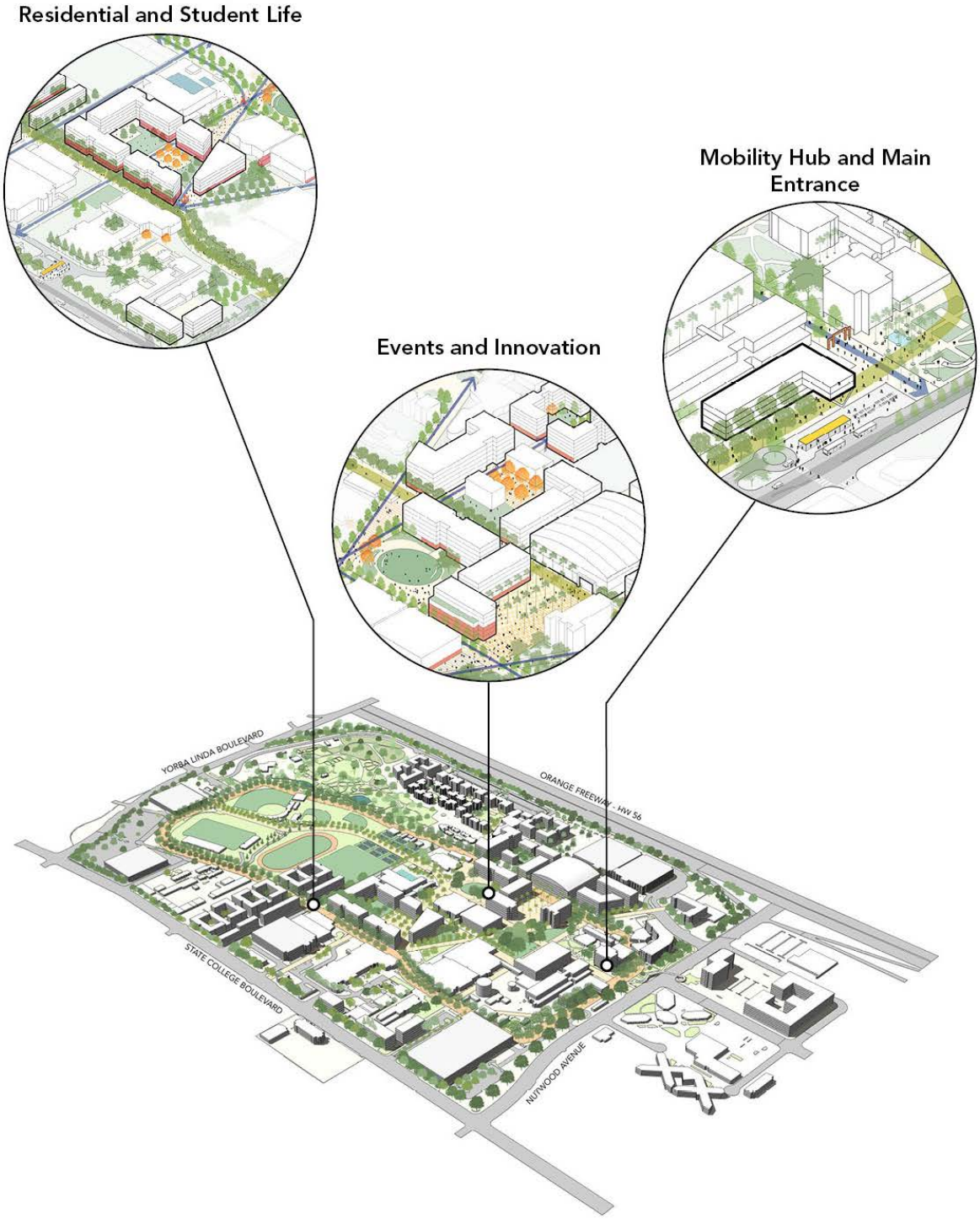


Figure 2-27 Campus Districts



The Campus Master Plan proposes an additional 803,880 gsf of on-campus student housing (approximately 3,000 beds) and an additional 539,000 gsf (approximately 350 beds) of on-campus faculty/staff housing. Of the 3,000 student beds, 600 are part of a separate project not included in the Campus Master Plan and are not analyzed in this EIR. Student housing would be built in three clusters; two clusters would be built next to the existing residence halls located on the west side of campus, and one cluster would be constructed on the western side of the campus to increase student activity in this area. The faculty/staff housing complex would be located south of Nutwood Avenue by the existing College Park building.

The development of on-campus student housing would be centered around four primary considerations. First, student housing would include space for student life programming, specifically on main floor, for students to hang out, meet, socialize, study, relax, and recreate. Second, housing would be complimented by student amenities too support an all-day campus environment, such as cafes, dining halls, quick grab-and-go food counters, and small convenience stores. Third, amenities would be provided in various locations across campus to support commuting students and encouraging them to remain on campus to take advantage of non-academic activities and programs. Lastly, all housing, related amenities, and student spaces would be visible, safe, and accessible.

2.5.4 Athletic and Recreational Facilities

Athletic and recreational facilities proposed in the Campus Master Plan include the Event Center, the Green Loop, and recreational areas in and around the on-campus residence halls. The Campus Master Plan proposes a 6,000 seat Event Center to create a campus life forecourt that lends itself to community recreational activities such as athletic sporting events, intramural sports programs, concerts, plays, fairs, and other recreational activities for both CSUF and the surrounding community.

In addition to the Event Center, the Campus Master Plan emphasizes the incorporation of green space and outdoor open space throughout campus to facilitate recreational activities. Open spaces such as lawns and shaded courtyards would be incorporated around the campus to encourage student engagement in informal recreational activities as well as gathering and studying. Open spaces would also be used for student programming such as displays, fairs, celebrations, and art installations.

The Green Loop would deliberately and thoughtfully connect each campus district as a space for recreation and active transportation such as biking, walking, and jogging. The Campus Master Plan would also incorporate green space adjacent to student residence halls to provide space for student recreational activities opportunities and relaxation.

2.5.5 Design Characteristics

The design principles included in the Campus Master Plan reflect modern principles that can adequately provide a framework for future development. The architectural aesthetic directed by the design guidelines would create a cohesive campus identity that would also generate a comfortable, pedestrian-friendly environment. For example, the design guidelines would direct building massing would be articulated to create a comfortable relationship between the scale of a person and the scale of the building. Existing campus buildings accomplish a pedestrian-scale through the building's architectural or structural expression rather than applied decoration, and building elevations are brought into pedestrian scale using more articulated or open ground floor elevations. New buildings should employ architectural articulation to create visual interest, incorporate surface effects in ways

that are consistent with existing adjacent structures, and consider changes in material, color, or other architectural features to visually articulate or activate a building elevation.

Existing campus building façade materials are predominantly concrete, although metal panels, plaster, brick, and/or curtain wall systems are occasionally employed. The existing palette of materials can be augmented to create visual interest. Building material and color choices for proposed buildings would harmonize with existing campus palettes. Foreground buildings may employ materials and colors that create a distinct identity and distinguish them from other buildings on campus, as is appropriate for their functions.

The Campus Master Plan identifies five frameworks that would act as major drivers for campus organization and development:

- **Green Loop:** The Green Loop provides deliberate and thoughtful connection and organization around and through each part of the campus. These connections are activated by the path of the loop itself – with opportunities for various forms of active transportation such as walking, running, skating, scooting and biking – and by inserting programmatic learning opportunities along the path, which would provide visual orientation and a sense of identity in each campus district.
- **Axes:** Axes are cross-campus pedestrian/bicycle circulation paths that are linear and cut across and beyond the Green Loop. Axes provide several clear north-south and east-west connections and two diagonal pathways. Axes engage with the Green Loop at node points. These paths offer more direct access to various campus zones, and paired with the Green Loop, contribute to a network of walkable and bikeable access routes throughout the campus.
- **Height and Density:** The need to accommodate enrollment growth and increased demands on academic space while maintaining open space and a livable and functional campus has presented the opportunity to revisit mass and density on the campus. Considering the highest and best use for campus land has resulted in planning for growth to include new buildings up to seven stories in height.
- **Ground Floor Activation:** Being able to readily identify building functions and internal activities helps to orient the campus user and creates a clear and safe path and sense of arrival at each destination. This should be achieved by programming student-life functions at ground levels and by designing for transparency at the ground floor, creating “front porches” at each building. Entrances should be oriented toward and visible from circulation paths and should be well-lit, inviting spaces that are programmed for group study or socializing. They may provide café functions or other opportunities for students and others to congregate.
- **Campus Circulation:** In the campus core, walking is the primary mode, with scooters, skateboards, and campus carts permissible. Biking, while not explicitly designed for in the inner core is permitted with the exception of dismount zones. Vehicle access (along with all other modes) is permitted around the perimeter of campus. All parking is located in this outermost area, with only minimal access to more inner parts of campus. Other components of the campus circulation strategy include perimeter circulation and connection points to the surrounding community. Perimeter points are entry places where commuters or visitors enter campus via buses, cars, bikes, or skateboards and continue to the core of campus on foot.

2.5.6 Sustainability

The Campus Master Plan aims to uphold the CSU Sustainability Policy throughout its lifespan. The CSU Sustainability Policy aims to integrate sustainability into the academic curriculum, develop

employee and student workforce skills in the “green jobs” sector, and pursue sustainable practices on university campuses in business operations, facilities operations, food services, and design and construction.

With an increasing presence in the CSU system and community at large, CSUF recognizes the importance of being a leader in sustainability. The campus has maintained a high level of commitment to create a more resilient and sustainable campus community. CSUF has established and implemented a wide variety of sustainable practices regarding energy efficiency, water efficiency, waste diversion and reduction, and transportation. The University has achieved a high level of energy efficiency through its on-campus 4.6 megawatt (MW) trigeneration plan, resulting in the campus being able to meet approximately 70 percent of its energy needs. Additional sustainable practices include the robust use of solar power on campus, the switch from campus landscaping to drought tolerant plants, and the investment of higher efficiency energy and water meters.

The Campus Master Plan contains goals and policies to realize a more sustainable and resilient future. A primary goal of the Campus Master Plan is to maintain the current campus footprint through the principles of compact development and sustainable design. The campus was the first in the CSU system to obtain a Leadership in Energy and Environmental Design (LEED) Platinum Certification for a student housing complex by the United States Green Building Council (USGBC). The campus would continue to follow best practices for green building design for newly built and renovated buildings. Additionally, Campus Master Plan aims to reduce the need for transportation by increasing on-campus housing and student amenities and implementing alternative transportation options and programs identified in the University’s transportation demand management (TDM) plan. The Campus Master Plan aligns with current CSUF initiatives for conscientious decision-making at both the administrative and student level.

Development of a resilient campus will be supported by the following measures:

- The creation of a 24-hour community
- The expansion of food options on campus
- A shift to multi-modal mobility
- The designation of critical buildings and infrastructure
- A shift to adaptive landscape elements
- The expansion of on-site electricity generation and the creation of a microgrid

Utility resiliency:

- Seismic restraints and retrofit for applicable MEP equipment, including Central Utility Plant and Thermal Energy Storage Tanks.
- Location of critical building MEP systems above flood plain

2.5.7 Open Space

There are four different types of open space included in the proposed Campus Master Plan: (1) contemplative outdoor space, (2) learning courtyard, (3) event space and innovation hub, and (4) quads. Contemplative outdoor spaces would consist mainly of the Arboretum on the north side of campus. There would be additional contemplative outdoor spaces scattered throughout campus, primarily on the west side of campus near proposed residential housing. Learning courtyards would focus in the center of campus near academic facilities. Three on-campus learning courtyards are proposed in the Campus Master Plan. Event space and innovation hub functions more as an

interactive creative space where students and faculty can think freely and exchange ideas. One main event space and innovation hub is proposed near the current Humanities-Social Sciences building and Education Classroom. Two quads are proposed as part of the Campus Master Plan including one designated quad space, and additional quad space on the Titan Lawn.

In addition, 26 acres of the campus comprise the Arboretum, the largest open space on campus. It consists of several "lakes," ponds, and plant collections, providing opportunity for people to both recreate and conduct research. The major existing features of the Arboretum would remain following implementation of the Campus Master Plan. Figure 2-28 illustrates proposed on-campus open space.

2.5.8 Utilities and Infrastructure

The proposed project would require the installation of additional water main lines, lateral connections, and hydrants within the campus to serve planned facilities. The campus currently has a combined firewater and domestic water system. The Campus Master Plan would involve the replacement of several high-risk water pipes that are made out of asbestos material. Additionally, several pipes were found to be running at full capacity. The addition of new campus facilities would require additional pipes and water lines to service water for both fire and domestic uses.

Wastewater within the campus is currently served by three public sanitary sewer mains that run along Yorba Linda Boulevard, North State College Boulevard, and East Nutwood Avenue. Many portions of the sewer mains are considered high risk due to root intrusion, pipe cracking, and increases in sewage level due to displacement in pipes. Existing buildings that will be demolished and replace are currently generation approximately 207,152 gallons per day (GPD) of wastewater. Proposed facilities in the Campus Master Plan would generate approximately 1,528,572 GDP. This would result in a net increase of approximately 1,321,420 GDP of wastewater. Four out of the seven sewer pipes that run through campus would require upsizing to accommodate additional capacity. Certain proposed facilities conflict with existing campus sewer lines which would be demolished and relocated. Additional analysis for these facilities would be conducted. Proposed parking structures within the Campus Master Plan would not generate wastewater.

Stormwater within the campus is currently managed through three storm drain hard pipe connections that run from campus to city main lines. The current pipes are flowing under pressure and are flowing past 100 percent full in the event of a two-year storm. Many of the pipes are undersized and at inadequate slopes. Certain areas of campus, such as the athletic fields and areas west of the Pollack Library are notable flood areas. To alleviate stress on current stormwater infrastructure, the Campus Master Plan includes on-site post construction Low Impact Design (LID) and best management practices (BMP). Structural BMP's would mitigate impacts of runoff and stormwater pollution close to the source. Strategies include infiltration systems, stormwater capture and use, and high efficiency biofiltration/bioretention systems.

The campus supply of natural gas is derived from Southern California Gas (SCG) which currently delivers natural gas to campus through three major lines. CSUF privately distributes medium pressure gas throughout the campus. Current natural gas lines are outdated, have inadequate isolation valves, and some are missing earthquake valves. The campus is aiming to reduce its fossil fuel use. However, natural gas infrastructure is still expected to be in need of repair. Replacement of old pipes, installation of more strategic isolation valves, and installation of earthquake valves to other buildings would be near-term, natural gas infrastructure upgrades within the campus. New service points and additional meter locations would make natural gas delivery, maintenance, and monitoring more efficient.

Figure 2-28 Proposed Open Space

2.5.9 Access, Circulation, and Parking

CSUF's site access and vehicular circulation plan is shown in Figure 2-29 and would not change with the updated Campus Master Plan. Current circulation within the campus would remain in its current state, with the exception of expanding bicycle access on existing campus pathways. Yorba Linda Boulevard, North State College Boulevard and Nutwood Avenue would remain the primary arterials and access points around campus. No new access points from these arterials would be constructed as part of the updated Campus Master Plan.

The University acknowledges a high demand of parking for both students and faculty. The 2019 Campus Master Plan would count for an increase in student enrollment, building square footage on campus, and additional amenities needed to support these increases, including parking. The increase of FTES, staff and on-campus housing would require the addition of parking spaces on the project site. The Campus Master Plan has assumed the addition of 3,000 new beds, 1,099 new faculty/staff, and an increase in the total number of FTES to 32,000. Increases in both the number of student beds and faculty and staff would result in the need for 4,473 additional parking spaces. Two additional parking structures, totaling 1,677,374 gsf, have been proposed to help reduce the number of needed on-campus parking. However, a deficit of parking would remain and need to be addressed through alternative methods of transportation such as the campus subsidized transit program, the ridesharing program and taking advantage of campus pedestrian and bicycle services.

To help offset the high demand parking spaces, the Campus Master Plan includes a comprehensive TDM program. The TDM program aims to relieve some of the high demand for parking spaces, reduce single-occupancy vehicle trips to and from campus, and encourage students and faculty commuting to and from campus to use more efficient and sustainable methods of transportation. To do this, CSUF plans to expand and implement programs including a ridesharing program, a subsidized transit program, a shuttle to downtown Fullerton and the Fullerton Metrolink Station, and a market rate parking pricing program. Implementation of the TDM program would ultimately result in a reduced parking demand and a reduction in greenhouse gas (GHG) emissions associated with vehicle trips. Additionally, implementation of the TDM program would help increase connectivity between campus and the surrounding community, reducing the need for vehicles in order to make these connections. Figure 2-30 shows the proposed pedestrian bridge over Nutwood Avenue.

Figure 2-29 Site Access and Vehicle Circulation

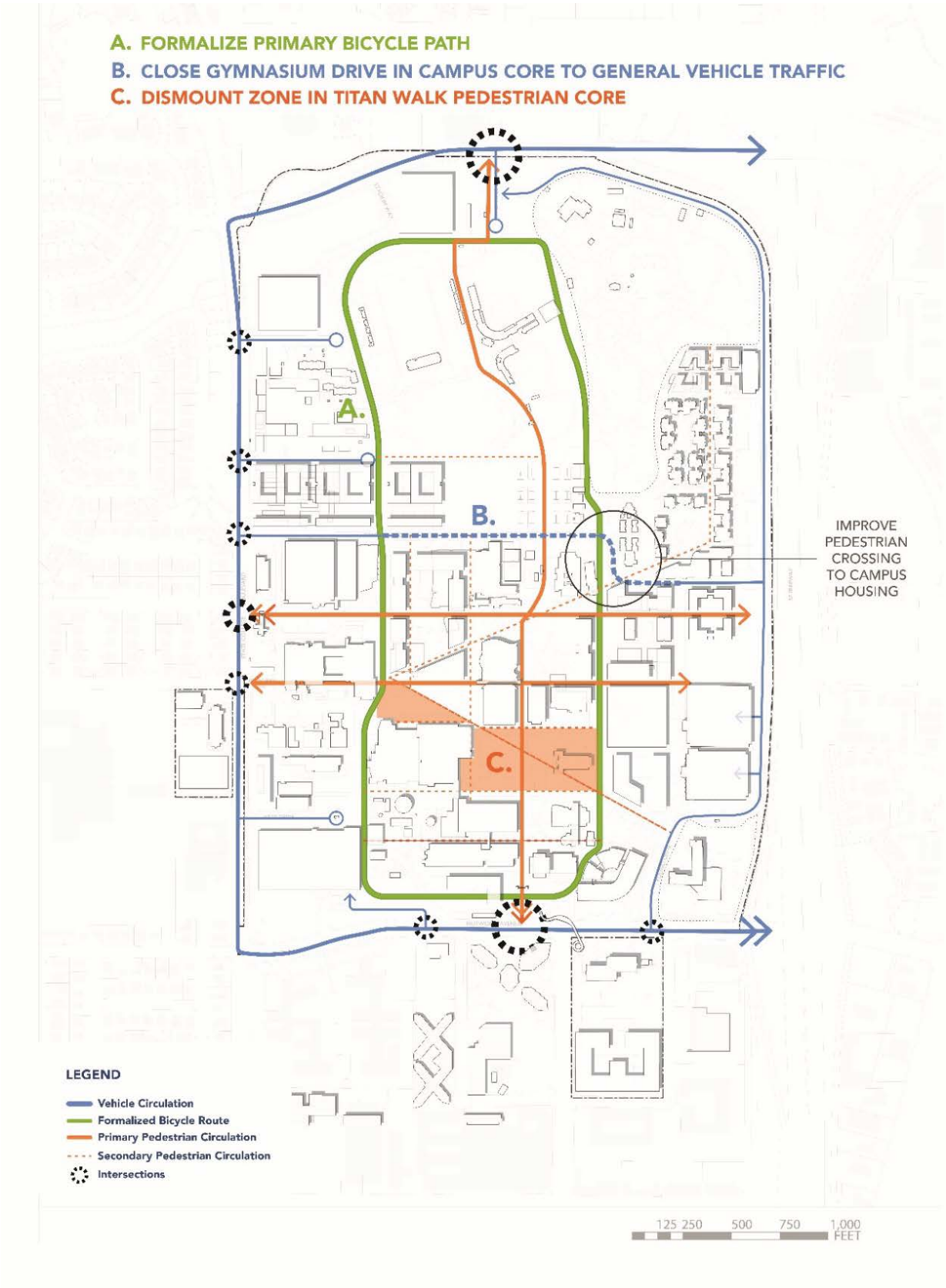


Figure 2-30 Proposed Pedestrian Bridge

To help support the TDM program, three mobility hubs are proposed with the Campus Master Plan These hubs include one on the northern edge of campus along Yorba Linda Boulevard, the southern edge of campus along Nutwood Avenue and the western edge of campus along North State College Boulevard. The mobility hubs would include access and infrastructure to support transit, bikeshare, scootershare, carshare, on-demand rideshare, microtransit, electric vehicles (EVs) and rideables. Outside of the TDM program, CSUF aims to add different amenities and services onto campus such as dining, jobs, and additional housing. Providing these services on campus would help alleviate the need for students to commute off campus and have single-occupancy vehicles.

2.5.10 Proposed Facilities Development

The Campus Master Plan is a strategy for modifying the CSUF campus to accommodate growth and change over the next 20 years. It presents an overall picture of the future developed campus and includes recommendations for new construction, building renovations, change of use, and site development projects. These activities would be carried out throughout the life of the Campus Master Plan. Drawings of proposed facilities in the Campus Master Plan are conceptual sketches that highlight the location and purpose of improvements. The final design of each site and facility project will take place as projects are funded and detailed programming and design occurs.

Table 2-2 shows the breakdown of existing and proposed building square footage on the campus and Table 2-3 lists proposed new buildings and facilities. Figure 2-31 depicts the proposed projects on a campus map. The timing for implementation of individual projects during the course of Master Plan buildout implementation would depend on a number of considerations, including but not limited to priority of need, availability of surge space to accommodate the temporary relocation of programs, infrastructure needs, the need to minimize disruption of campus operations, and the availability of funding.

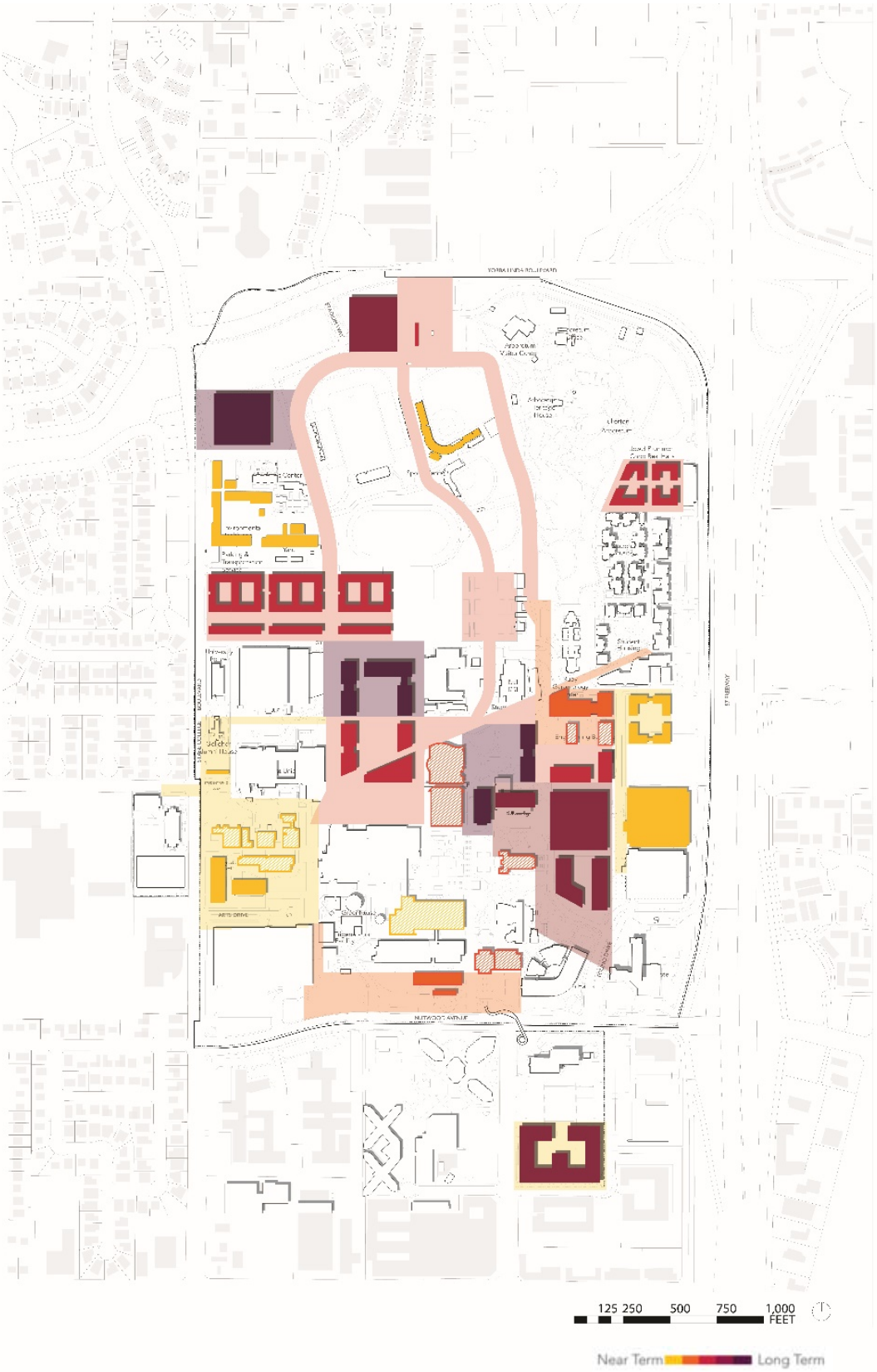
Table 2-2 Existing and Proposed Square Footage

Facilities	Existing (gsf)	New (gsf)	Total (gsf)
Academic Space	2,545,851	881,526	**3,425,577**
Non-Academic Space	305,589	40,000	**344,077**
Student Housing	464,111	803,880	**1,265,574**
Campus Amenities	355,807	800,000	**1,155,807**
Faculty Housing	117,538	539,000	**644,420**
Innovation Center	0	72,762	**72,762**
Arboretum	20,244	100,000	**120,244**
Event Center	0	254,100	**254,100**
Transportation Hubs	0	7,200	**7,200**
Parking Structures	1,831,569	1,677,375	**3,508,944**
Totals	**5,640,709**	**5,044,111**	**10,684,820**

Table 2-3 Proposed Buildings and Facilities

Building No.	Building Name	Building No.	Building Name
8g-h	Visual Arts Center Replacement	82a-c	Engineering Complex A
10 a-b	Academic Buildings	83a-b	Engineering Complex B
31 j-l	Arboretum Facilities Upgrades	84	Academic Building G
36 h-l	Sports Complex Additions	85	Event Center
51	Science Laboratory Replacement Facility	87a-f	Student Housing, Phase 6
54a-d	Student Housing, Phase 5	89	Faculty Housing
75a	Academic Building A	90a	North Parking Structure 1
75b	Academic Building B	90b	North Parking Structure 2
75c	Academic Building C	91a-d	Corporation Yard
75d	Academic Building D	92	Nutwood Avenue Bridge
75e	Academic Building E	100	Modular Building A
80	Innovation Center	101	Modular Building B
81	Academic Building F	102	Modular Building C

Figure 2-31 Campus Map, Construction Phasing



2.6 Intended Uses of the EIR and Required Approvals

This EIR provides program-level analysis of the Master Plan and will be used by the CSU Board of Trustees to evaluate the potential environmental impacts associated with adoption of the proposed Campus Master Plan. As individual Campus Master Plan projects are proposed for implementation (i.e., when CSUF is ready to move forward with individual project planning and construction), additional CEQA compliance review, including site- and condition-specific analysis and specific permits and/or approvals may be necessary, depending on the circumstances of the particular project. Accordingly, each project will be evaluated at the time it is proposed for implementation to determine the need for additional environmental review. This EIR could also be relied upon by responsible agencies, if any, with permitting or approval authority over any project-specific action to be implemented in connection with a project.

The CSU Board of Trustees is the lead agency for this EIR and has sole authority to consider and approve the Campus Master Plan, certify the EIR, and adopt the Mitigation Monitoring and Reporting, Program, Findings of Fact, and Statement of Overriding Considerations. Table 2-4 lists agencies who may be required to issue permits or approve certain aspects of a particular Campus Master Plan project.

This EIR, and any environmental analysis relying on this EIR, is expected to be used to satisfy CEQA requirements of the listed responsible and/or trustee agencies and is anticipated to provide useful information those agencies that may issue a permit in support of the Campus Master Plan.

Table 2-4 Anticipated Permits and Approvals for Campus Master Plan Implementation

Agency	Permit/Approval
Lead Agency	
California State University, Board of Trustees	▪ Approval and adoption of the Campus Master Plan ▪ Approval of conceptual plans, development agreements and schematic plans for public-private partnerships ▪ Approval of schematic plans for future facilities and improvements ▪ EIR Certification
Other Agencies	
Regional Water Quality Control Board	▪ Section 401 Certification ▪ Stormwater discharge permits
State Fire Marshal	▪ Future facility fire safety review and approval
City of Fullerton Fire Department	▪ Potential access to facilities
Orange County Air Pollution Control District	▪ Air quality construction and operational permits
Orange County Transit Authority (OCTA)	▪ Approval of any future regional bus service improvements
City of Fullerton	▪ Encroachment permits for work within city streets and rights-of-way
Division of the State Architect	▪ Accessibility Compliance

3 Environmental Setting

This section provides a general overview of the environmental setting for the proposed project. More detailed descriptions of the environmental setting for each environmental issue area can be found throughout Section 4.0, *Environmental Impact Analysis*.

3.1 Regional Setting

California State University, Fullerton (CSUF) is located in the City of Fullerton, in the northern portion of Orange County, about 1,000 feet west of the Placentia city limit, two miles northeast of downtown Fullerton, and 3.25 miles northeast of downtown Anaheim. The City is bordered by the cities of La Mirada, La Habra, and Brea to the north, unincorporated County of Orange and City of Anaheim to the south, Cities of Yorba Linda and Placentia to the east, and unincorporated County of Orange and cities of La Mirada and Buena Park to the west. Figure 2-1 in Section 2.0, *Project Description*, shows the location of the project site in the region and the relationship to the surrounding neighborhood.

Regional access to the City is provided via the State Route (SR) 57, which is located near the City's eastern boundary, and the SR 91, which forms the City's southern boundary. Interstate 5 is situated at the southwest corner of the City. Local access is provided by various arterial highways that intersect the City, including Harbor Boulevard and Malvern Avenue/Chapman Avenue, among others.

The Mediterranean climate of the region and the coastal influence produce moderate temperatures year-round, with rainfall concentrated in the winter months. Although air quality in the area has steadily improved in recent years, the Orange County region remains a nonattainment area for ozone (urban smog).

3.2 Project Site Setting

CSUF is located on the eastern edge of the City of Fullerton and is bounded by educational institutions, residential, and mixed commercial uses. CSUF is approximately 240 acres, and includes a mix of residential, academic, and recreational buildings. Parking lots and structures are spread out along the campus' perimeter along with pedestrian and bicycle facilities interspersed throughout the center of campus.

The campus is located at 800 North State College Boulevard in the City of Fullerton, Orange County, and is primarily bounded by Nutwood Avenue to the south, North State College Boulevard to the west, Yorba Linda Boulevard to the north, and SR 57, to the east. Academic buildings, housing, and the university's pedestrian/bicycle system are interspersed throughout the campus. The campus' location approximately two miles from downtown Fullerton, makes it a semi-urban campus. The City's parks and trail systems serve CSUF for nature and recreational purposes. CSUF's campus is located approximately 16 miles northeast from the coastline of the Pacific Ocean.

The campus is characterized by a central core of academic and student support buildings in the southern half of the campus, with athletic facilities, on-campus residential, and surface parking lots spread across the northern portion of the campus. The northern and southern portions of the campus are separated by Gymnasium Campus Drive, which running east to west, bisects the

campus. The campus is predominantly developed with the exception of athletic fields and the campus' 26-acre Arboretum located in the northeastern corner of campus. CSUF is located near several transit stops and provides different transportation services for students and faculty/staff to commute to and from the surrounding region. Figure 2-2 shows CSUF in relation to its immediate surroundings.

Primary access to CSUF is provided by Yorba Linda Boulevard, North State College Boulevard, and Nutwood Avenue. These streets are maintained by the City of Fullerton and provide the main access to the campus via several access streets and driveways. Gymnasium Campus Drive bisects the center of campus while Folino Drive runs along the eastern edge of the campus and is located within the campus limits. This street connects with North Campus Drive and Yorba Linda Boulevard at the northern edge of the campus, and Nutwood Avenue at the southern edge of the campus.

4 Environmental Impact Analysis

This section discusses the possible environmental effects of the CSUF Campus Master Plan for the specific issue areas that were identified through the scoping process as having the potential to experience significant effects. A "significant effect" as defined by the *CEQA Guidelines* §15382:

> means a substantial, or potentially substantial, adverse change in any of the physical conditions within the area affected by the project including land, air, water, minerals, flora, fauna, ambient noise, and objects of historic or aesthetic significance. An economic or social change by itself shall not be considered a significant effect on the environment. A social or economic change related to a physical change may be considered in determining whether the physical change is significant.

The assessment of each issue area begins with a discussion of the environmental setting related to the issue, which is followed by the impact analysis. In the impact analysis, the first subsection identifies the methodologies used and the "significance thresholds," which are those criteria adopted by the City and other agencies, universally recognized, or developed specifically for this analysis to determine whether potential effects are significant. The next subsection describes each impact of the proposed project, mitigation measures for significant impacts, and the level of significance after mitigation. Each effect under consideration for an issue area is separately listed in bold text with the discussion of the effect and its significance. Each bolded impact statement also contains a statement of the significance determination for the environmental impact as follows:

- **Significant and Unavoidable**. An impact that cannot be reduced to below the threshold level given reasonably available and feasible mitigation measures. Such an impact requires a Statement of Overriding Considerations to be issued if the project is approved per §15093 of the CEQA Guidelines.
- **Less than Significant with Mitigation Incorporated**. An impact that can be reduced to below the threshold level given reasonably available and feasible mitigation measures. Such an impact requires findings under §15091 of the CEQA Guidelines.
- **Less than Significant**. An impact that may be adverse but does not exceed the threshold levels and does not require mitigation measures. However, mitigation measures that could further lessen the environmental effect may be suggested if readily available and easily achievable.
- **No Impact.** The proposed project would have no effect on environmental conditions or would reduce existing environmental problems or hazards.

Following each environmental impact discussion is a list of mitigation measures (if required) and the residual effects or level of significance remaining after implementation of the measure(s). In cases where the mitigation measure for an impact could have a significant environmental impact in another issue area, this impact is discussed and evaluated as a secondary impact. The impact analysis concludes with a discussion of cumulative effects, which evaluates the impacts associated with the proposed project in conjunction with other planned and pending developments in the area listed in Section 3.0, *Environmental Setting*.

The Executive Summary of this EIR summarizes all impacts and mitigation measures that apply to the proposed project.

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4.1 Aesthetics

This section evaluates the Campus Master Plan's potential impacts related to aesthetics, including potential impacts on scenic vistas, visual character and quality, and impacts from light and glare.

4.1.1 Setting

a. Regional Setting

The CSUF campus is located on the eastern side of the City of Fullerton in northeastern Orange County, California. The City of Fullerton is characterized by a pattern of auto-oriented, low- to medium-density land uses in an established urban environment, with areas of higher density and greater diversity of uses in the downtown area and along Chapman Avenue and Commonwealth Avenue, approximately two miles from campus. North of downtown is the North Harbor Corridor area, which flanks both sides of Harbor Boulevard and contains St. Jude's Hospital, other medical facilities, and the North Justice Center County courthouse. West Coyote Hills in northwest Fullerton, which lies north of Rosecrans Avenue and extends to the northern City limits, includes the Bob Ward Nature Preserve, the last large continuous piece of undeveloped land in the City. Industrial areas are located in the northern area of the City between Harbor Drive and Imperial Highway, and in the southeastern area of the City east of East Walnut Avenue and the railroad right-of-way utilized by Metrolink's Orange County Line and Amtrak's Pacific Surfliner.

The CSUF campus is located in a densely developed urban area of the City. The campus is located in the Education Focus Area of the City's General Plan (The Fullerton Plan), characterized by five education institutions and surrounding commercial and residential areas. The City envisions this area as a potential "student village" with future higher-density housing and commercial services to serve the student population (City of Fullerton 2012).

b. Campus Setting

CSUF is a relatively compact campus of approximately 240 acres bordered by local streets and surrounded primarily by residential, commercial, and educational uses. The main campus is bounded on the east by State Route (SR) 57, the south by Nutwood Avenue, the west by North State College Boulevard and the north by Yorba Linda Boulevard. Two small off-site areas are also part of the campus, including a block which lies on the southern side of Nutwood Avenue, bounded by Langsdorf Drive to the east, College Place to the south, and North Commonwealth Avenue to the west. The nine-story College Park building on this site, built in 1970, is the tallest CSUF building and houses the College of Communications and College of Education and additional classrooms and office space for staff and faculty (see Figure 4.1-2, View 9). That site also contains a parking lot and a 1,468 square foot HVAC unit on its eastern side. An additional portion of the campus is located on the west side of North State College Boulevard, south of Dorothy Lane, and north and east of La Vista High School. The campus is well-integrated into the surrounding urban environment, with several access points and parking facilities to serve a predominantly commuter student population.

The surrounding community is primarily characterized as urban with a mix of single-family and multi-family residences, commercial retail, and educational facilities, developed along major arterials and freeways in a manner typical of urban communities in southern California. The northern portion of campus abuts Yorba Linda Boulevard, a relatively flat seven lane roadway that intersects with North State College Boulevard to the west of campus and leads to SR 57 to the east

of campus. Across Yorba Linda Boulevard, the land is primarily flat with a mix of one-story civic and community uses, gas station, and a three-story multi-family housing complex. One of CSUF's three discontiguous parts of campus, a large parking lot, is located directly across Yorba Linda Boulevard. In between developments are large trees that span the length of Yorba Linda Boulevard, hiding public views along Yorba Linda Boulevard from several developments across CSUF. Notable buildings in this area are shown in Figure 4.1-1, and include The Dong Shin Church of Southern California, Fullerton Fire Department Station 5, and MB Ketchum University.

The western portion of CSUF abuts North State College Boulevard, a flat seven lane arterial in the City that provides access points into the west side of campus. Across from North State College Boulevard is land that is primarily flat with single-family housing, public facilities ranging in different heights, and surface parking lots. One of CSUF's three discontiguous parts of campus, Titan Hall, is located directly across North State College Boulevard. A large retaining wall spans the majority of North State College Boulevard which partially obscures public views of the single-family housing developments. Some public facilities have an older architectural style and are one to two stories in height. Newer public facilities affiliated with CSUF have a more modern architectural style and are taller in height, some being four stories, with larger mass. Certain areas along North State College Boulevard consist of lawns and tall trees, keeping a consistent aesthetic with Yorba Linda Boulevard. Notable buildings in this area include The Troy High School (on Dorothy Lane), and La Vista/Sierra High Schools.

The southern edge of campus abuts Nutwood Ave, a six-lane roadway that spans the entire length of the southern portion of CSUF. Across from Nutwood Avenue is relatively flat land that is characterized as a moderately dense urban area with residential, commercial, office, and institutional development. Existing development consists of educational facilities, student and multi-family residential complexes, neighborhood commercial centers, and office buildings that are separated by landscaping and surface parking lots. One of CSUF's three discontiguous parts of campus, College Park, is located directly across Nutwood Avenue. Development is primarily setback with landscaping and trees set before it. Residential complexes are architecturally more modern and are three stories in height. Other development is primarily one or two stories in height with moderate massing with the exception of the 9-story College Park Building affiliated with CSUF. Hope International University and a restaurant complex with two one-story buildings, parking lots, and sitting areas are located in this area.

East of Campus lies SR 57. SR 57 is an at-grade multi-lane freeway with a concrete divider and sparse vegetation and trees lining the western edge adjacent to the campus. Across SR 57 is a sound barrier wall and residential neighborhoods and commercial structures.

Campus Visual Character

The visual character of the campus is characterized by both urban and suburban development. The campus is characterized by a central core of academic buildings in the southern half of the campus, with athletic facilities at the central core of the northern portion of the campus. The northern and southern portions of the campus are separated by Gymnasium Campus Drive, which running east to west, bisects the campus. Photographs of the campus are contained in Section 2.0, *Project Description*.

Northern Campus

The visual character of the northern portion of the campus is largely defined by the Arboretum, athletic facilities, student housing, surface parking lots, and smaller, temporary and permanent

structures. The Titan Sports Complex, featuring the multipurpose 10,000-seat Titan Stadium, baseball pavilion, track and tennis courts, was completed in 1992. Due to the range of uses in this portion of campus, the visual framework is defined by a variety of architectural forms, styles, and physical spaces. With the exception of the Arboretum, this portion of campus is not densely landscaped, with mature street trees lining North State College Boulevard, Yorba Linda Boulevard, and SR 57, and placed somewhat sparingly within surface parking lots.

The northern portion of the campus is not densely developed and is therefore easily visible from the surrounding community. The campus can be seen from both the surrounding residential neighborhoods to the west and north, and from SR 57 located to the east. With the exception of student housing structures along the eastern edge of this portion of campus, the buildings in the northern part of campus are one to two stories in height, allowing for views from the campus, towards points located to the north, east, and west.

The 26-acre Arboretum serves as a regional resource for research, recreation, education, and agricultural heritage. The Arboretum is accessed from West Campus Drive and North Campus Drive off Yorba Linda Boulevard, and is bounded by Folino Drive to the north, SR 57 to the east, a campus bicycle path and athletic fields to the west, and student residential housing to the south. It includes a collection of rare plants from around the world and features scenic landscapes, two ponds, streams, and walking trails. The facility began in a field of the region's iconic orange groves, and officially opened to the public in 1979. It is characterized by vegetation and winding paths that bisect the various gardens. In 2006, the university opened the Fullerton Arboretum Visitor Center and the Orange County Agricultural and Nikkei Heritage Museum, the campus's first "green" building. The Arboretum also is home to Heritage House, an eligible historic resource. This restored 19th-century dwelling is one of the last remaining examples of the Eastlake Victorian style in Fullerton and was moved to its current site in 1972. It serves as a cultural museum for North Orange County (CSUF 2019b).

Southern Campus

The visual character of the southern portion of the campus is defined by academic buildings, student support facilities, campus recreation facilities, and both parking structures and surface parking lots. This portion of the campus is more densely developed with large, multistory structures. As the hub of academic life at CSUF, this portion of campus contains a wide mix of uses and buildings with some clearly defined architectural styles. While the edges of the southern portion of campus are visible from North State College Boulevard, Nutwood Avenue, and SR 57, larger buildings obscure views of the campus, as well as views from the campus.

Within the southern portion of campus, each main cluster of academic buildings is accompanied by a landscaped quad or other type of landscaped courtyard area. Additionally, each academic building consists of a "front porch"; an area that is immediately near the entrance of each building that is landscaped to help connect each building to exterior quads and other landscaped areas. As stated previously, the campus has transitioned to more drought-tolerant landscaping due to the regional climate. As such, trees are strategically placed on campus in certain main quad areas to provide shading. Smaller landscaped areas outside certain buildings include smaller foliage and other drought-tolerant foliage but do not consist of larger trees. Areas that consist of higher levels of shading include The Commons adjacent to the Titan Walk, The Engineering and Computer Science Quad, the Quad in front of the Pollak Library, and the quad areas outside Gordon Hall.

Additionally, the campus quad marks the heart of the southern half of campus, or the campus core. Buildings located within the campus core include McCarthy Hall, Clayes Performing Arts Center,

Pollak Library, Humanities and Social Sciences Building, and Langsdorf Hall. As discussed in Section 4.3, *Cultural Resources*, these buildings have a distinctive New Formalist/Late Modern architectural style and exhibit a unified site design with an emphasis on monumentality. Smooth white and natural-toned concrete exteriors and repeating hexagonal motifs are seen throughout the district.

The southern portion of campus hosts CSUF's sculpture art collection. The collection is mainly centered around the Visual Arts Center near North State College Boulevard. Other sculpture locations include courtyards and open space areas near the Titan Gym, Titan Bookstore, Titan Student Union, Pollak Library, and Langsdorf Hall.

Architectural Styles

CSUF's primary architecture is a mix of historical and modern. Uniformity in scale is maintained between the older and contemporary buildings, and many of the taller buildings are five or six stories in height. Langsdorf Hall, Fullerton Towers I, and College Park are the tallest buildings on campus at nine stories in height.

Approximately 40 percent of the campus' current building stock was constructed during the heyday of New Formalism, Brutalism, and Late Modernism between 1960 and 1974. The 1960 Master Plan (Figure 4.3-1)in Section 4.3, *Cultural Resources*), called for the construction of six buildings: Letters and Sciences (1963), Music-Speech-Drama (1965), Physical Education and Gymnasium (1965), Library (1966), Cafeteria-Commons (1967), and Humanities and Social Sciences (1969). Created as part of the first major building campaign at CSUF, the buildings display a unified site plan, with each component arranged around a central quad and commons. Unified by axial circulation corridors and landscaping, the early campus core was completed between 1963 and 1969.

Notable campus architects are discussed in Section 4.3, *Cultural Resources.* Popular during the 1960s and 1970s, Brutalist design is characterized by buildings that are usually formed with striking blockish, geometric, and repetitive shapes – namely, hexagonal forms (see example in Figure 4.1-2, View 5). The structure is typically heavy and unrefined with coarsely molded surfaces, usually exposed concrete. Langsdorf Hall and the Pollak Library were designed in Brutalist form, as were other buildings in the City of Fullerton, such as the North Orange County Municipal Court complex (Fullerton Heritage 2019). As discussed in Section 4.3, *Cultural Resources,* four historic-period buildings are located on the CSUF campus: the George G. Golleher Alumni House (Mahr House), the Titan House (Henry T. Hetebrink House), the Heritage House (Dr. George C. Clark Home and Office), and the Pollak Library.

As visible in a 1972 aerial, the unified, axial site plan of the campus was already intact by the early 1970s, with administrative and academic buildings located in the south of the campus and athletic fields in the northern extent of the campus (Figure 4.3-3 in Section 4.3, *Cultural Resources*). The northeastern area of campus, dedicated to the Fullerton Arboretum since 1979, is characterized by vegetation and winding paths that bisect the various gardens. By the 1980s and 1990s, as the campus expanded, new buildings, including student housing, were constructed primarily on the periphery of the central quad.

Buildings added to the campus after 2000 were primarily built in a contemporary architectural style characterized by large windows, transparency, and dynamic styles, such as the redesigned addition of the Titan Student Union. New buildings typically use concrete, steel, and glass for design elements, such as the Titan Student Union and Becker Amphitheatre.

Open Space and Landscaping

The campus typically uses grass or xeriscape landscaping, pine or palm trees, or drought-resistant groundcover between buildings, along bicycle and pedestrian pathways, and in parking areas. In recent years, CSUF has been replacing large lawn areas with drought-tolerant landscaping, including Chitalpa pink dawn, Desert Museum Palo Verde, Mexican bird of paradise, feather grass, salvia leucantha, lantana, agave, dwarf bougainvillea and geraniums (CSUF 2014). Large grass areas remain in several locations for recreational purposes, such as the outdoor gathering space outside Becker Amphitheatre.

Areas between buildings are mainly hardscaped pathways and ornamental landscaping. The largest hardscaped courtyards are the Central Quad, Humanities Quad, the Steven G. Mihaylo Hall Courtyard, Titan Gym Porch, and outside the Kinesiology Building. The Titan Walk is the main pedestrian thoroughfare in the academic core, connecting the Pollak Library, and is lined with palm trees and outdoor furniture such as benches. The Titan Walk provides access to several other bike paths that are intertwined throughout campus. The Central Quad is a mix of pervious ground cover and hardscape with large shade trees. The Campus Bike Path is a connection of hardscape pathways around the campus. Additionally, parking lots typically have shade trees lining the edges in row planters.

The largest open space on campus is the Arboretum that is nestled in the northeastern corner of campus. As further discussed in Section 2.0, *Project Description*, the Arboretum is a 26-acre botanical garden that consists of several bodies of water along with plants from all over the world. The Arboretum is divided into five main areas: the educational/visitor area, Mediterranean Collection, Desert Collection, Woodlands Collection, and Cultivated Collection. Each of these collections consists of substantially different landscaping that fits in with the region the collection is showcasing. Some collections such as the Woodlands Collection are more arboreal, with a higher amount of tree cover and shading. Other collections such as the Cultivated Collection, Desert Collection, and Mediterranean Collection are less arboreal containing a variety of shrubs, bushes, and plants. The Cultivated Collection is designed and oriented to help emphasize the Heritage House that lays at the western edge of the collection. Section 4.4.2, *Cultural Resources within the Project Site*, includes more detailed information on the Heritage House. Collections are separated from each other by pedestrian dirt paths that weave and connect throughout the entire Arboretum.

Views of Campus from Public Viewpoints

Viewer Sensitivity

According to the Federal Highway Authority (FHWA), viewer sensitivity is considered in assessing the impacts of visual change and is a function of several factors. The sensitivity of the viewer, or viewer concern, is based on the visibility of resources in the landscape, proximity of the viewers to the visual resource, elevation of the viewers relative to the visual resource, frequency and duration of views, numbers of viewers, and types and expectations of individuals and viewer groups (FHWA 1981).

Views of high quality have topographic relief, a variety of vegetation, rich colors, impressive scenery, and unique natural and/or built features. Views of medium quality have interesting but minor landforms, some variety in vegetation and color, and/or moderate scenery. Views of low quality have uninteresting features, little variety in vegetation and color, uninteresting scenery, and/or common elements.

Off-Campus Viewpoints

Off-campus viewpoints are those that are off-site public vantage points looking towards the direction of campus. The locations are shown in Figure 4.1-1 and displayed as photographs in Figure 4.1-2.

Views of the campus from off-campus viewpoints are primarily available towards tall buildings such as the Mihaylo building, College Park building, and the Fullerton Marriott (as shown in Figure 4.1-2, Viewpoints 10 and 11), and parking lots, parking garages, single-story campus facilities, on-campus residential facilities, and tree and hedge-lined landscaping. The campus and its immediate surroundings are located on land that is generally flat, a condition which limits views of the campus from off-site viewpoints. North State College Boulevard, Yorba Linda Boulevard, and Nutwood Avenue provide the most direct views of the campus.

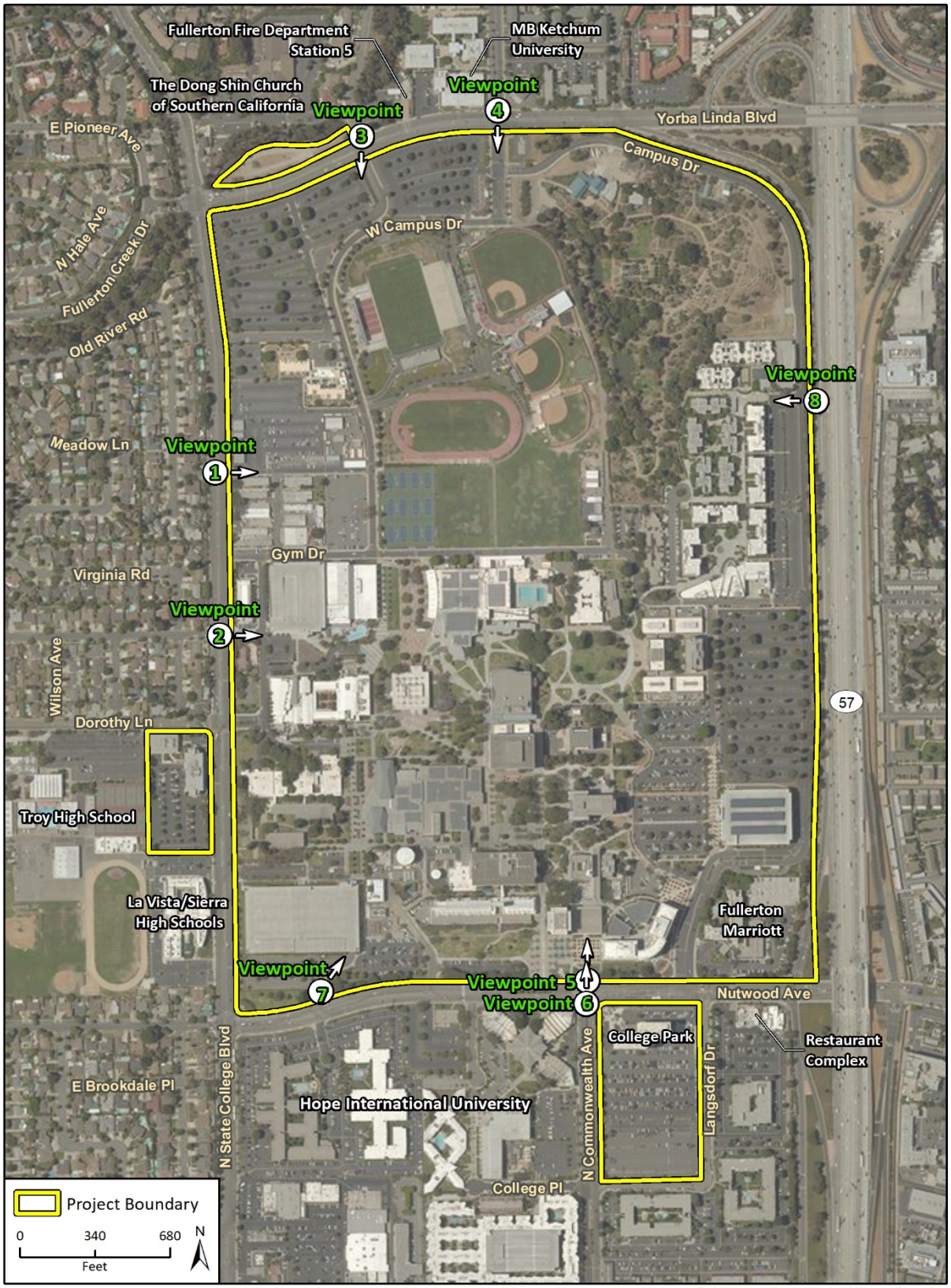
East-facing views of the campus from North State College Boulevard are of medium to high visual quality due to the dense landscaping and built features visible from campus (see Figure 4.1-2, Viewpoints 1 and 2). Limited eastward views of the campus can be seen from the nearby residential developments and La Vista/Sierra High Schools on North State College Boulevard. Views generally consist of parking lots, parking structures, gates, ornamental landscaping, and one-story buildings such as the George G. Golleher Alumni House, University Police Station, and the Environmental Health and Instructional Safety trailer. The State College Parking Structure can be viewed in the background of some of these buildings, as it is taller than the single-story structures.

Views of the northern areas of campus, looking south from Yorba Linda Boulevard, are restricted to parking lots and the outer edge of the Fullerton Arboretum and Goodwin Stadium (see Figure 4.1-2, Viewpoints 3 and 4). These views are generally low to medium quality due to a lack of central focus points and definition of edges between visual structures.

North-facing views of the campus from Nutwood Avenue and Folino Drive are generally high visual quality, as they include more developed campus edges, entranceway signs, and views of landmark buildings (see Figure 4.1-2, Viewpoints 8, 10, and 11, and Figure 4.1-2, Viewpoints 5 and 6). Streets south of Nutwood Avenue, such as Titan Avenue, Commonwealth Avenue, and Langsdorf Drive, provide direct views of the campus when traveling directly north towards the campus. However, views may be limited to landscaping and parking facilities depending on the vantage point. Eastward views of the campus from Nutwood Avenue (see Figure 4.1-2, Viewpoint 7) include campus buildings and facilities on both sides of the street, including the College Park building south of Nutwood Avenue.

Westward views looking toward campus from SR 57 are generally low to medium visual quality due to the chain fence and sporadic vegetation. Sporadic views of residential housing complexes on campus can be seen (see Figure 4.1-2, Viewpoint 8). Westward views looking toward campus from the multi-family residential areas east across SR 57 are also generally low quality, as views are blocked by the sound barrier wall or landscaping.

Figure 4.1-1 Surrounding Land Uses, Photograph Locations, and Viewpoint Locations

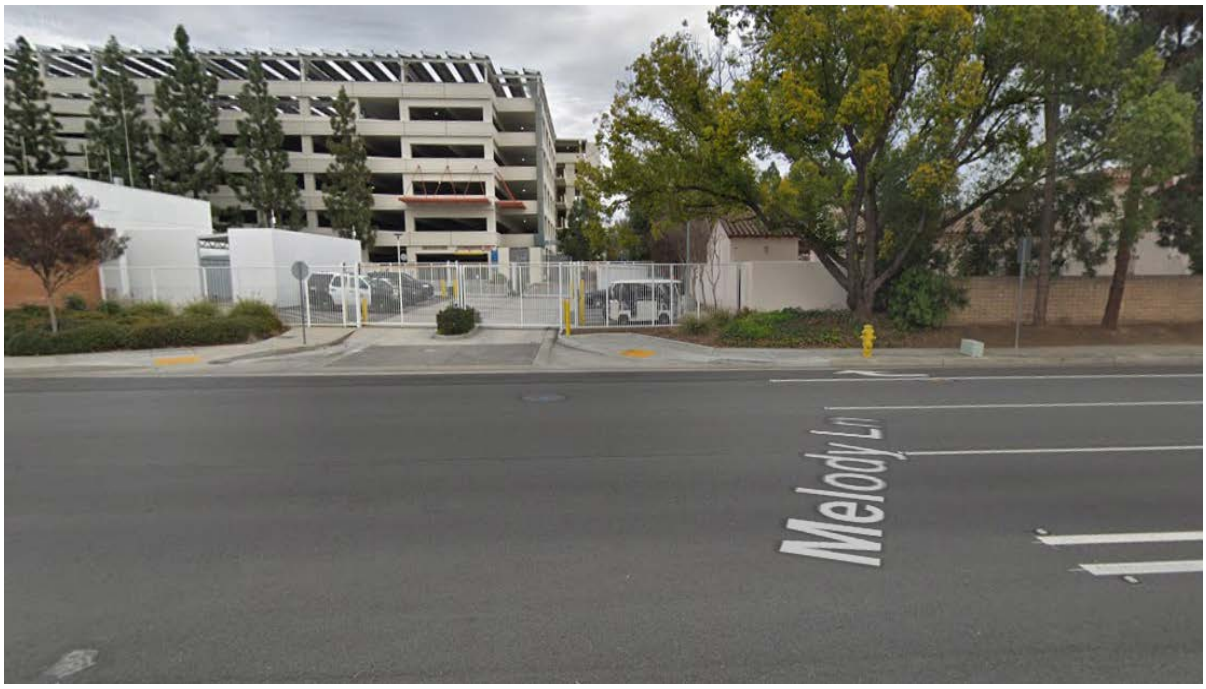


Imagery provided by Microsoft Bing and its licensors © 2020.

Fig 4.1-1 Surrounding Land Uses and Photograph Locations

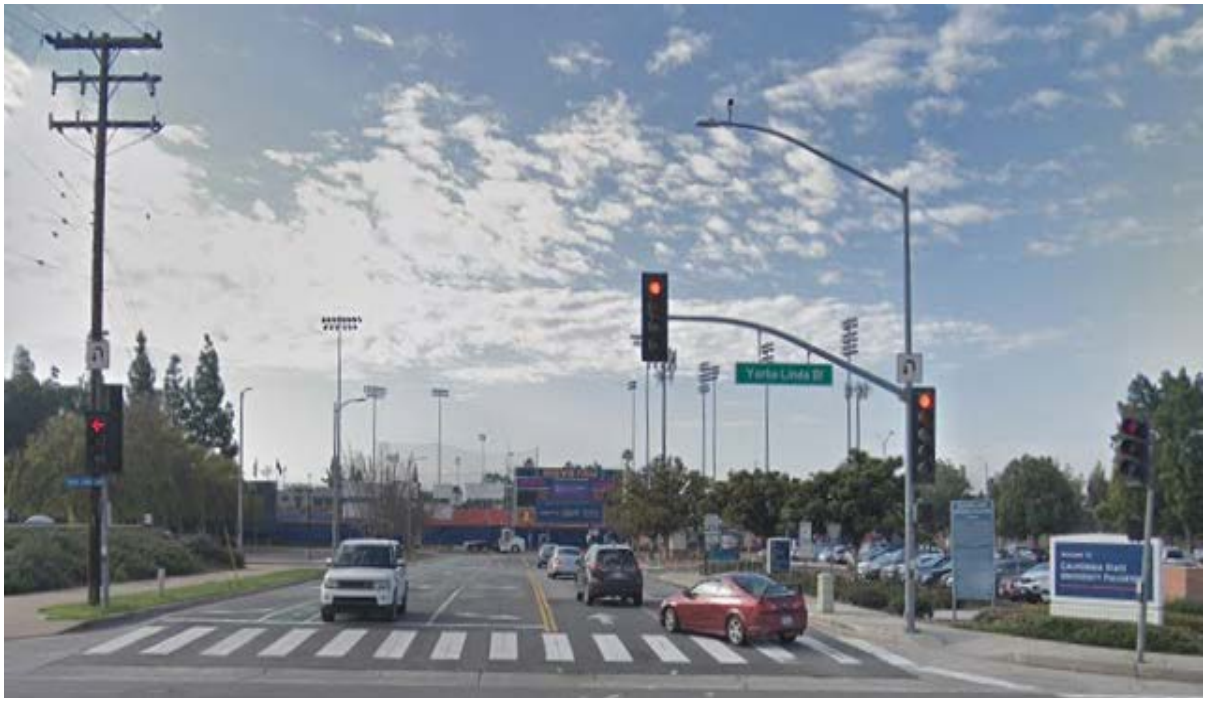
Figure 4.1-2 Public Views: Representative Viewpoints

Viewpoint 1. Eastward view to CSUF campus, Corporation Drive Driveway, from North State College Boulevard. Presents a typical view of campus from North State College Boulevard just west of campus, from an access road for a residential housing development. Views mainly consist of fencing, single-story campus buildings, ornamental trees and landscaping, utility infrastructure, lighting, and sidewalk.



Viewpoint 2. Eastward view to CSUF campus from North State College Boulevard and Melody Lane. Presents a typical view of campus from North State College Boulevard just west of campus, from an access road for a residential housing development. Views mainly consist of fencing, a parking garage, the single-story University Police Station (left), the George G. Golleher Alumni House (right), ornamental trees and landscaping, utility infrastructure, lighting, and sidewalk.

Viewpoint 3. Southward view to CSUF campus from Yorba Linda Boulevard and Stadium Way. Presents a typical view of campus from Yorba Linda Boulevard just north of campus. Views mainly consist of parking areas, streetlights, ornamental trees and landscaping, entranceway signage, lighting, and sidewalk. More distant views include stadium signage.



Viewpoint 4. Southward view to CSUF campus from Yorba Linda Boulevard and N. Campus Drive. Presents a typical view of campus from Yorba Linda Boulevard just north of campus. Views mainly consist of parking areas, entranceway signs, streetlights, ornamental trees and landscaping, utility infrastructure, lighting, and sidewalk. More distant views include stadium signage.

Viewpoint 5. Northward view to CSUF campus from Nutwood Avenue near N. Commonwealth Avenue. Presents a typical view of campus from Nutwood Avenue. Views mainly consist of hardscape and landscape, decorative elements such as fountains, trees, and tall buildings.

Viewpoint 6. Eastward view on Nutwood Avenue at N. Commonwealth Avenue. Views mainly consist of high-quality views of Minaylo College of Business and Economics to the north (left) and the College Park building to the south (right). Immediate views include street infrastructure, trees, sidewalks, and lighting. SR 57 overpass is seen in the distance.

Viewpoint 7. Northward view to CSUF campus from Nutwood Avenue near the Nutwood Parking Structure. Presents a typical view of campus from Nutwood Avenue. Views mainly consist of the parking structure, street lighting, trees, sidewalks, and landscaping.

Viewpoint 8. Southwest-facing view to CSUF campus from SR 57. Views mainly consist of the Elm, Fig, and Holly student residence halls, parking, fencing, trees, and vegetation.

Source: Images via Google February/March 2019.

Scenic Views and Vistas

A viewshed is generally defined as an area that can be seen from a given vantage point and viewing direction. A viewshed is composed of foreground items (items closer to the viewer) that are seen in detail and background items (items at some distance from the viewer) that frame the view. A scenic vista is generally defined as a view of undisturbed natural lands exhibiting a unique or unusual feature that comprises an important or dominant portion of the viewshed. Scenic vistas may also be represented by a particular distant view that provides visual relief from less attractive views of nearby features. Other designated Federal and State lands, as well as local open space or recreational areas, may also offer scenic vistas if they represent a valued aesthetic view within the surrounding landscape.

Scenic views of the hills and open space preserves are the predominant scenic vistas in the area. The closest open space area to the campus is the Coyote Hills East Preserve area (including the Panorama Nature Preserve, Vista Park, and Mountain View Park), located approximately 0.50-mile northwest of the campus. Due to the generally low elevation change and the urban development between the campus and the Coyote Hills East Preserve area, no views of the Coyote Hills East Preserve are currently accessible from CSUF on the street level. Views of the Coyote Hills East Preserve or other distant foothills may be seen from tall buildings on the campus, such as Langsdorf Hall, but these views are not considered publicly accessible. Distant northern views of the Los Angeles National Forest, South San Jose Hills, and Santa Ana Mountains are present at limited locations on the campus, mainly around athletic fields and other open spaces (see Figure 4.1-2, View 1). Due to the generally low elevation change, urban development, and trees on and off campus, scenic views of distant mountains or hills are extremely limited. Some views of the campus are accessible from the Panorama Nature Preserve and other areas of high elevation but are generally limited to the taller buildings on campus.

The City of Fullerton identifies scenic corridors in its General Plan. A segment of North State College Boulevard has been identified as a scenic corridor, with its southern end at the intersection of North State College Boulevard and Yorba Linda Boulevard at the northwest corner of the campus and northern end at Rolling Hills Drive near the City of Fullerton boundary line. A limited view of segment of North State College Boulevard scenic corridor is accessible from the northwest corner of the campus, which is a parking lot. There are no State Scenic Highways in or near the City of Fullerton.

The Fullerton Arboretum, located in the northeastern portion of camps, contains landscaping features such as waterfalls, ponds, trails, and plant collections, provides a scenic landscape on campus (see Figure 4.1-2, View 2). The Arboretum provides a scenic area of visual relief for students and staff and is accessible to the general public. Views of the Arboretum may be accessed from inside the residential hall buildings located on the east side of campus, but views of the Arboretum are not accessible from public vantage points on or off campus.

Lighting and Glare

Glare is a visual sensation caused by excessive and uncontrolled brightness. It can be disabling or simply uncomfortable. Light trespass is also referred to as nuisance glare that is visible from adjacent properties. Uncontrolled light sources such as floodlights and unshielded luminaires at low elevations can create glare and can also be the cause of light trespass. Lighting temperature also determines light impacts. Too high of a lighting temperature and the associated blue light can impact circadian rhythm, cause glare, and contribute more to light pollution (CSU 2018).

On-Campus Light and Glare

The majority of existing sources of nighttime illumination on the campus include interior and exterior building illumination and lighting along internal campus roadways, in surface parking lots, and along pedestrian pathways. Other prominent sources of nighttime illumination include overhead lighting installed at the aquatics center, tennis courts, and fields and stadiums during nighttime games and practices. Since 2015, CSUF replaced 68,000 interior tube lights with more efficient LED lights, which has reduced nighttime light pollution (CSUF 2019b).

With respect to daytime sources of glare, existing campus building façade materials are predominantly concrete; some buildings employ metal panels, plaster, brick, and/or curtain wall systems. Some of the modern buildings on the campus, particularly those constructed after 2000, were designed with reflective materials such as metal and large windows facing campus walkways and central areas. With their large expanses of reflective materials, these buildings have the potential to generate glare at certain times of the day (see Titan Student Union as example, Figure 2-8).

Off-Campus Light and Glare

According to The Fullerton Plan, and considered herein for informational purposes (see Regulatory Setting for further discussion), sensitive light and glare receptors in and around the City include residential uses, natural wildlife habitat areas, and open space lands adjacent to existing or planned development. There are no natural wildlife areas or open space lands adjacent to campus; however, residential development exists along North State College Boulevard, Yorba Linda Boulevard, and Nutwood Avenue.

Off-campus lighting sources include overhead street lighting on North State College Boulevard, Yorba Linda Boulevard, Nutwood Avenue, and SR 57. La Vista/La Sierra High School and Troy High School on North State College Boulevard, approximately 100 feet east of campus, feature a lighting system for their facilities, including parking lots and athletic fields. Outdoor lighting sources along Yorba Linda Boulevard include streetlights, outdoor lighting around buildings and in parking lots serving the Dong Shin Church approximately 330 feet north of campus, Marshall B. Ketchum University, businesses, and multi-family housing complexes, all approximately 100 feet north of campus. Exterior illuminated signage and outdoor lighting at the commercial businesses, Hope International University, and multi-family housing complexes located along Nutwood Avenue. The Marriott Hotel, located in the southeastern corner of the CSUF campus, has its own exterior lighting around the buildings, parking lots, and pool area, and light emanating from building interiors.

The use of reflective building materials is generally low in the areas surrounding the campus. Buildings in the area are typically constructed of brick, stucco, or wood, but some buildings feature large windows that face the street, such as Hope International University and some of the commercial buildings along Nutwood Avenue. As such, opportunities for noticeable glare during daytime hours are low. The City of Fullerton does not include any areas known for night sky observation.

4.1.2 Regulatory Setting

As a state entity, the California State University (CSU), of which CSUF is a part, is not subject to regional or local plans and policies of cities or counties that regulate development. Although CSUF is not subject to local plans of cities and counties, such plans and policies are of interest or concern because it is University policy to seek consistency with regional and local plans and policies, where

feasible. Information pertinent to visual resources from the City and County general plans also follows, for informational purposes.

Federal

There are no applicable federal regulations regarding the protection of visual resources that would be applicable to the Campus Master Plan or the campus.

State

California Code of Regulations, Title 24

Title 24 of the California Code of Regulations (CCR), also known as the California Building Standards Code, consists of regulations to control building standards throughout the State. The California Electrical Code (Title 24, Part 3) and Green Building Standards Code (also referred to as the CaLGreen Code; Title 24, Part 11) stipulate minimum light intensities for safety and security at pedestrian pathways, circulation ways, and paths of egress.

The CaLGreen Code (24 CCR, Part 11, Paragraph 5.106.8, Light Pollution Reduction) provides that all nonresidential outdoor lighting must comply with the following:

- The minimum requirements in the California Energy Code (CEC) for Lighting Zones 1–4 as defined in Chapter 10 of the California Administrative Code; and
- Backlight, Uplight, and Glare (BUG) ratings as defined in the Illuminating Engineering Society's Technical Memorandum on Luminaire Classification Systems for Outdoor Luminaires; and
- Allowable BUG ratings not exceeding those shown in Table A5.106.8 in Section 5.106.85 of the CaLGreen Code; or
- A local ordinance lawfully enacted pursuant to Section 101.7 of the CaLGreen Code, whichever is more stringent.

The 2019 updates to the CaLGreen Code, which went into effect on January 1, 2020, require nonresidential buildings to maximize light emitting diode (LED) technology in indoor and outdoor lighting.

California State Scenic Highway Program

The California Scenic Highway Program was created in 1963 by California State legislature to "protect and enhance the natural scenic beauty of California highways and adjacent corridors through special conservation treatment," and includes state routes identified as scenic by The California Department of Transportation (Caltrans). The "eligible" designation applies to a specific segment of the designated highway, and depends on several factors, including the breadth of the landscape that is visible by travelers, the scenic quality of the landscape, and the extent to which development intrudes upon a traveler's enjoyment of the view. The California State Legislature makes state highways eligible for designation as a scenic highway, listing them in the Streets and Highways Code Sections 260-284. For a highway to be declared scenic by Caltrans, the local government with jurisdiction over abutting land must adopt a "scenic corridor protection program" that limits development, outdoor advertising, and earthmoving, and Caltrans must agree that it meets the criteria (California Office of Legislative Counsel 1969).

California State University Guidelines, Standards, and Policies

The CSU has developed guidelines, standards, and policies for development and facilities on CSU campuses, including energy, utilities, indoor and outdoor lighting, access, and construction. CSUF is currently replacing lights with LED lighting per compliance with the CSU Outdoor Lighting Design Guidelines. A major source of light on university campuses is stadium floodlights during games and practices. By switching to LED lighting, stadium floodlights on athletic fields would control light distribution to the playing surface, avoiding light pollution and unwanted light spill. LED lighting is also better for viewing of big screens and scoreboards, and result in flicker free, super-slow-motion TV (CSU 2018).

The CSU Outdoor Lighting Design Guidelines contain the following policies to reduce impacts from light and glare:

- Walkways and parking lots are required to be 0.5fc minimum and 1.0fc average and be within Cal-Green Tier II compliance.
- Per California Energy Code requirements, all permanently installed outdoor lighting must be controlled by a photosensor or astronomical time switch to automatically turn off lighting when daylight is available.
- Lighting of building facades, parking lots, garages and canopy luminaires mounted below 24 feet must be controlled such that the power usage in watts can be reduced by 40-90 percent.
- Use fully shielded luminaires for area lighting.
- Do not over-light areas.
- Avoid any direct light into adjacent building windows. Luminaires attached to exterior building façades should be located between windows, not directly above windows.
- Consider dimming or turning off lighting when not needed and activate with motion sensors or timers when activity occurs to minimize light trespass into building interiors.
- All brightness levels in the nighttime environment should be in approximately the same range.
- Switch to LED lighting, as the light output is directed where it is needed, not into the night sky or neighboring properties. LED lighting also provides good visibility with lower light levels. LED parking structure fixtures are designed to control surface glare through optical shielding.
- Careful placement and dimming of light fixtures can prevent or reduce light trespass outside of the structure or property line.

Regional and Local

As stated in the beginning of this Regulatory Setting section, CSUF may consider, for informational purposes, aspects of local plans and policies for the communities surrounding the campus when it is appropriate, but is not bound by local or regional planning regulations or documents such as the City's General Plan or municipal code.

The Fullerton Plan

The Fullerton Plan is the City's governance tool focused on achieving the "Fullerton Vision" (City of Fullerton 2012). The Fullerton Vision is a statement of aspirations associated with improved quality of life included in The Fullerton Plan. Part II of The Fullerton Plan consists of individual elements and goals and *Master Element A: The Fullerton Built Environment*, which contains goals and policies relevant to aesthetic resources. The Fullerton Plan includes Scenic Corridors but does not identify

scenic vistas or resources. The City of Fullerton does not have jurisdiction over CSUF; however, CSUF considers aspects of local plans and policies for the communities surrounding the campus when it is appropriate and feasible, although it is not bound by those plans and policies in its planning efforts. Relevant goals and policies of the *Master Element A: The Fullerton Built Environment* related to community character, design, and aesthetics include the following:

Goal 1: Resilient and vital neighborhoods and districts.

- **P1.1 Regional Coordination.** Support regional and subregional efforts to create a strong sense of place and support the efficient use of land.
- **P1.2 Subregional Coordination.** Support projects, programs and policies to promote compatibility and mutually beneficial built environments and land uses with adjacent jurisdictions and other agencies.
- **P1.3 Protection and Restoration of Natural Resources.** Support projects, programs, policies and regulations to protect, and where appropriate restore, the natural landscape, topography, drainage ways, habitat, and other natural resources when planning improvements to existing and new neighborhoods and districts.
- **P1.4 Connection and Integration of Uses.** Support projects, programs and policies to improve connections between housing, shops, workplaces, schools, parks and civic facilities, and integrate uses where possible and appropriate.
- **P1.5 Maintenance and Improvements of Existing Built Environment.** Support projects, programs, policies and regulations to maintain positive attributes of the built environment and seek continual improvement.
- **P1.8 Consideration of Neighborhood Impacts.** Support projects, programs, policies and regulations to evaluate and consider short- and long-term impacts of significant planning efforts or developments on nearby neighborhoods.
- **P1.10 Focus Area Planning.** Support projects, programs, policies and regulations to evaluate ways to contribute to the resiliency and vitality of neighborhoods and districts as part of community-based planning of Focus Areas.
- **P1.11 Compatibility of Design and Uses.** Support programs, policies and regulations to consider the immediate and surrounding contexts of projects to promote positive design relationships and use compatibility with adjacent built environments and land uses, including the public realm.

Goal 2: A positive identity and distinctive image.

- **P2.1 Perceived Image and Identity.** Support regional and subregional efforts to improve the public image and perception of Southern California, Orange County, and North Orange County.
- **P2.2 Distinctive and Memorable Places.** Support projects, programs, policies and regulations to promote distinctive, high-quality built environments whose form and character respect Fullerton's historic, environmental and architectural identity and create modern places that enrich community life and are adaptable over time.
- **P2.3 Distinctive Landmarks.** Support projects, programs, policies and regulations to preserve existing landmarks and encourage the creation of new landmarks that reinforce Fullerton's identity and image.
- **P2.4 Sense of Place.** Support projects, programs, policies and regulations to reinforce the character and sense of place of established neighborhoods and districts by preserving and

enhancing the attributes which contribute to neighborhood and district identity, vitality and livability.

- **P2.5 Maintenance and Management.** Support programs and policies to facilitate the efforts of property and business owners within neighborhoods and districts to maintain and manage the quality of their environments.
- **P2.6 Focus Area Planning.** Support projects, programs, policies and regulations to create a positive identity and distinctive image as part of community-based planning of Focus Areas.
- **P2.7 Relationship to Street.** Support projects, programs, policies and regulations to site and design buildings to create a positive, accessible image along the street and reinforce a vibrant and comfortable public realm.
- **P2.8 Responsiveness to Context.** Support projects, programs, policies and regulations to respect the local context, including consideration of cultural and historic resources, existing scale and character and development patterns of the surrounding neighborhood or district.

Goal 4: Valued and preserved historic resources.

- **P4.4 Historic Character and Sense of Place.** Support projects, programs, policies and regulations to reinforce the character and sense of place of established neighborhoods and districts by protecting and preserving those elements in both the private and public realms which contribute to the historic character through the use of tools including, but not limited to, preservation overlay zones and landmark districts.
- **P4.5 Historic Building Preservation.** Support projects, programs, policies and regulations to encourage the protection and preservation of individual historic structures throughout the City, but with particular attention to the preservation of noteworthy architecture in the downtown.
- **P4.6 Focus Area Planning.** Support projects, programs, policies and regulations that contribute to the preservation of historic resources as part of community-based planning of applicable Focus Areas.
- **P4.7 Responsiveness to Historic Context.** Support projects, programs, policies and regulations to design new buildings that respect the integrity of nearby historic buildings while clearly differentiating the new from the historic.
- **P4.9 Historic Building Retrofits.** Support projects, programs, policies and regulations to encourage the retrofit of historic buildings in ways that preserve their architectural design character, consistent with life safety considerations, maintaining the unique visual image of Fullerton.

The Mobility Chapter of The Fullerton Plan "seeks to link Fullerton's system of roadways, bicycle and pedestrian facilities, bus and rail transit systems, and airport—all of which collectively provide for the movement of persons, goods, and services throughout the City, the region, and beyond" (Fullerton 2012). It identifies Scenic Corridors in the City for the purpose of directing quality of life considerations for future growth. The only street segment in proximity to the campus identified as a Scenic Corridor is North State College Boulevard, between Yorba Linda Drive and Rolling Hills Drive.

City of Fullerton Scenic Corridor Design Guidelines

Originally Appendix D of the 1994 General Plan Update, the Scenic Corridor Design Guidelines provide guidance for scenic corridor treatment and preservation, including preservation of the

natural grade and landscape, building design and viewshed protection, and preserving the pastoral qualities of rural streets.

City of Fullerton Municipal Code

The City of Fullerton Municipal Code identifies land use categories, development standards, and other general provisions that ensure consistency between The Fullerton Plan and proposed development projects. The following provisions from the Municipal Code concern aesthetic features and design.

- **Title 9 (Parks), Chapter 9.06 (Community Forestry).** This chapter addresses the planning, planting, maintenance, and removal of trees and landscaping in the City, including street trees and certain trees on private property. It seeks to preserve the City's urban forest in order to "enhance the City's overall character and sense of place." The ordinance establishes criteria, including aesthetic concerns, for the official designation of "landmark trees."
- **Title 15 (Zoning), Section 15.15.055 (Design Review).** This section states that any request to develop property in the City may be subject to a review by the Design Review Committee (DRC) if the Director of Development Services determines that there are design issues that require a review to serve the public interest. The DRC's recommendations are submitted to the Planning Commission and/or City Council prior to the making of a decision on the project.
- **Title 15 (Zoning), Chapter 15.47 (Site Plan Review).** This chapter identifies the set of factors that are contemplated by the Director of Development Services, Staff Review Committee and/or the Planning Commission when a site plan is reviewed, including aesthetic concerns such as visual buffering and screening, the relationship between buildings, and the appearance of landscaping.
- **Title 15 (Zoning), Chapter 14.49 (Sign Standards and Regulations).** This chapter regulates the size, height, design, quality of materials, construction, illumination, location, and maintenance of all signs and sign structures in the City.

4.1.3 Impact Analysis

a. Thresholds of Significance

To determine whether a project would result in a significant impact to Aesthetics, Appendix G of the CEQA Guidelines requires consideration of whether a project would:

1. Have a substantial adverse effect on a scenic vista;
2. Substantially damage scenic resources, including but not limited to, trees, rock outcroppings, and historic buildings within a State Scenic Highway;
3. In nonurbanized areas, substantially degrade the existing visual character or quality of public views of the site and its surroundings? (Public views are those that are experienced from publicly accessible vantage point). If the project is in an urbanized area, would the project conflict with applicable zoning and other regulations governing scenic quality; or
4. Create a new source of substantial light or glare that would adversely affect daytime or nighttime views in the area.

b. Methodology

The evaluation of potential aesthetic and visual resource impacts is based on review of site photographs representing key vantage points; the nature, scale, and design of Campus Master Plan projects; and documents pertaining to the campus and surrounding area. In determining the level of significance, this analysis focuses on the nature and magnitude of visual change associated with the development under the Campus Master Plan, the number of public vantage points from which changes would be visible, and the number of viewers who would be affected.

The following analysis identifies important, or "key," views that could, theoretically, be noticeably altered by the Campus Master Plan. As recommended by the FHWA, these views are described according to view character and quality, the visual resources present, viewer group and viewer group sensitivity, as well as the duration of the views (1981). The terminology is described below.

- The character of a view is described by the topography, land uses, scale, form, and natural resources depicted in the view. The assessment of the visual character is descriptive and not evaluative because it is based on defined attributes.
- Visual quality refers to the aesthetics of the view. Determining the quality of a view can be subjective because it is based in part on the viewer's values and notions about what constitutes a quality setting. In an effort to establish an objective framework, this assessment applies the evaluative criteria (i.e., vividness, intactness, and unity) and qualitative rankings (low, medium, and high) presented in the FHWA guidelines. Vividness is the visual power or memorability of landscape components as they combine in striking and distinctive visual patterns. Intactness is the visual integrity of the natural and man-made landscape and its freedom from encroaching elements. Unity is the visual coherence and compositional harmony of the landscape considered as a whole.
- Viewer response to a proposed project is predicted according to the land use and/or activities of the viewers, the relative number of viewers, and the amount of exposure to the view. Viewer groups/sensitivity refers to those who would see the project both during construction and after its completion and whether they would be likely to have a low, moderate, or high level of concern about aesthetic changes resulting from the project. It is presumed that residents who can see the project from their place of residence would have a relatively high level of sensitivity. By contrast, the typical motorist/commuter driving through the area to and from work or making deliveries is presumed to have a low level of sensitivity because attention is focused chiefly on driving or work-related activities.

It is assumed that projects implemented under the Campus Master Plan would comply with applicable CSU, CSUF, and other state policies, regulations, and procedures pertaining to development within the campus. This includes Campus Master Plan goals and policies related to visual siting, design, and quality of proposed projects.

Campus Master Plan

The Plan highlights several key design considerations relevant to aesthetics and visual resources:

- Unobstructed views along axes should be maintained to improve the legibility of the campus.
- Edges should be well defined through the built form of through planting.
- All axes should be well lit with pedestrian-scaled lighting.
- Paving materials should be used to help designate the difference between secondary and tertiary axes.

- Academic buildings:
  - Would be up to six stories or 75 feet from the ground level to the top floor level, and 80-90 feet in width
  - Ground and upper floor heights shall be 15 feet floor-to-floor
  - Building width balances floor plan programming and opportunities for increased depth of daylight penetration
- Residential buildings:
  - Shall be up to seven stories or 75 feet from the ground level to the top floor level, and 40-45 feet in width
  - Ground floor heights shall be 15 feet floor-to-floor
  - Upper floor heights shall be 12 feet floor-to-floor
  - Depth of building footprint allows for efficient dorm layout and daylight penetration in occupied spaces
- Student-life programs shall be integrated into each academic and residential building planning program, with a special focus on the ground floor for activation purposes.
- Student-life program areas should have visual transparency to adjacent space and the outdoors.

c. Impact Analysis

Threshold 1: Would the project have a substantial adverse effect on a scenic vista?

Impact AES-1 PROPOSED DEVELOPMENT WOULD NOT SIGNIFICANTLY BLOCK OR IMPEDE VIEWS OF SCENIC VISTAS, NOR WOULD THE SCALE OF PROPOSED DEVELOPMENT SIGNIFICANTLY IMPACT VIEWS FROM IDENTIFIED SCENIC CORRIDORS. IMPACTS WOULD BE LESS THAN SIGNIFICANT. NO MITIGATION MEASURES ARE REQUIRED.

New development proposed under the Campus Master Plan would mainly be within the existing CSUF campus footprint. New construction outside of the existing campus would be limited to the proposed elevated pedestrian bridge that would span the Nutwood Avenue right-of-way. Scenic views of the hills and open space preserves are the predominant scenic vistas in the area, however no views of the Coyote Hills East Preserve or other open space preserves are currently accessible from CSUF on the street level. Distant northern views of the Los Angeles National Forest, South San Jose Hills, and Santa Ana Mountains are present at limited locations on the campus, mainly around athletic fields and other open spaces (see Figure 4.1-2, View 1). The existing limited views of distant mountains or foothills that are accessible on campus would not be impacted by Campus Master Plan, as the athletic fields would not be altered under the Campus Master Plan. Additionally, the Campus Master Plan would not substantially impact views of campus from areas of scenic enjoyment, since development under the Campus Master Plan would not include buildings or structures taller than existing buildings.

The Fullerton Arboretum, located in the northeastern portion of camps, contains landscaping features such as waterfalls, ponds, trails, and plant collections, provides a scenic landscape on campus. The Arboretum provides a scenic area of visual relief for students and staff and is accessible to the general public. Views of the Arboretum may be accessed from inside the residential hall buildings located on the east side of campus, but views of the Arboretum are not accessible from public vantage points on or off campus. Development proposed in the Fullerton Arboretum,

including 100,000 gross square feet of additional facility space, would not degrade the existing scenic views or visual character of the Arboretum. Improvements would be made to increase access to the Arboretum through the proposed Green Loop, including a potential entrance on its southern side. With increased access, the ability for students, faculty, and visitors to enjoy the scenic views in the Arboretum would potentially increase. Therefore, impacts on scenic vistas would be less than significant.

Mitigation Measures

No mitigation required.

Significance After Mitigation

Impacts would be less than significant without mitigation.

Threshold 2:	Would the project substantially damage scenic resources, including but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?

Impact AES-2 THERE ARE NO STATE SCENIC HIGHWAYS IN THE VICINITY OF THE CAMPUS. THUS, IMPLEMENTATION OF THE CAMPUS MASTER PLAN WOULD NOT SIGNIFICANTLY DAMAGE SCENIC RESOURCES WITHIN A STATE SCENIC HIGHWAY. IMPACTS WOULD BE LESS THAN SIGNIFICANT. NO MITIGATION MEASURES ARE REQUIRED.

There are no officially designated scenic resources on or near the CSUF campus, and there are no State Scenic Highways in the vicinity of the campus (Caltrans 2019). Currently, motorists looking west on SR 57 near CSUF have a view consisting mostly of surface parking lots along the east side of campus. No distant and scenic views are available from this location. Therefore, development under the Campus Master Plan would not substantially damage scenic resources within a State Scenic Highway, and there would be no impact.

Mitigation Measures

No mitigation required.

Significance After Mitigation

There would be no impact and mitigation would not be required.

Threshold 3:	Would the project, if in a nonurbanized area, substantially degrade the existing visual character or quality of public views of the site and its surroundings? (Public views are those that are experienced from publicly accessible vantage point). If the project is in an urbanized area, would the project conflict with applicable zoning and other regulations governing scenic quality?

Impact AES-3 DEVELOPMENT UNDER THE CAMPUS MASTER PLAN WOULD CONSTRUCT NEW FACILITIES AND GREEN SPACE ON THE CSUF CAMPUS, RENOVATE EXISTING STRUCTURES. PHYSICAL CHANGES WOULD NOT DEGRADE THE VISUAL CHARACTER OF THE CAMPUS OR SURROUNDING AREAS. IMPACTS WOULD BE LESS THAN SIGNIFICANT. NO MITIGATION MEASURES ARE REQUIRED.

Construction Impacts

Potential visual impacts would arise from intermittent construction activities (i.e., barricade installation, construction staging, and grading). Additionally, the presence of trucks with building materials and equipment would result in short-term visual impacts. However, these activities would be limited primarily to properties outside the campus, such as residences and schools on North State College Boulevard and commercial and educational facilities on Nutwood Boulevard. The majority of the construction work would be centralized to the campus interior. Additionally, while construction staging could be unsightly, it would be short in duration, phased over time, and not expected to pose a significant impact on sensitive viewers. It is assumed that construction would mainly be limited to daytime hours; and therefore, use of construction lighting would be minimal and no significant artificial lighting impacts are anticipated during construction.

Visual Character

Existing visual quality of the campus is generally high, due to the existing high number of visual resources such as consistent architectural elements, landscaping, and resources such as the Arboretum. New development would be designed to activate student and faculty spaces on campus and enhance visual and physical connections within the campus and surrounding area. As described in Section 2.0, *Project Description*, new development under the Campus Master Plan would include four housing centers, 16 academic facilities, three transit hubs, innovation hub, event center, parking garage, Corporation yard/facilities, and new multi-modal pathways.

A number of new buildings and facilities would be replaced, including Jewel Plummer Cobb Residential Hall, Titan Bookstore, the Education Classroom Building, single-level Engineering buildings, Visual Arts buildings, Anthropology storage facility, Goodwin Field Press Box, Corporation Yard/Facilities Management buildings, and parts of the Kinesiology and Health Science Building.

New development and redevelopment of existing facilities would primarily impact the visual character of the CSUF campus from on-campus viewpoints, namely in the academic core and student housing areas on the eastern and western edges of campus. Proposed buildings range from two to seven stories. The tallest buildings would be primarily located in the central core of the campus. Academic buildings would be up to six stories and 80 to 90 feet wide, and residential buildings would be up to seven stories and 40 to 45 feet wide. Residential buildings developed under the Campus Master Plan would be higher and more densely populated but would also include open space courtyards and ground-floor transparency. The Campus Master Plan directs new building material and color choices to harmonize with exiting campus palettes.

New development would densify the campus due to increased building massing and height, but would be consistent with the large, rectangular style of existing buildings, particularly the modern aesthetic of the buildings developed after 2000. Entranceways would be oriented toward and visible from circulation paths, and be well-lit, inviting spaces, and may include cafes or other opportunities for students and others to congregate. The façade architecture of the ground floors of new buildings would connect people to the outdoor environment and allow for daylight penetration and views into the building. The proposed six-story faculty housing complex south of Nutwood Avenue would be consistent with the massing of existing College Park building and surrounding multi-family housing complexes and improve the visual continuity of the streetscape along North Commonwealth Avenue and College Place.

The Campus Master Plan also includes plans for enhanced entranceways with new architectural components and wayfinding signs on the south, north, and west sides of the main campus, a pedestrian bridge across Nutwood Avenue, and improved pedestrian and bicycle routes and green/open spaces. The Campus Master Plan would also develop the 20-foot-wide, oval-shaped Green Loop multi-modal pathway that will encircle the center of campus, and a network of 15- to 20-foot-wide pedestrian and bicycle “axes” that cut across campus. The Green Loop and axes would be primarily constructed upon a network of existing bicycle and pedestrian pathways, not all of which are currently connected, and would add landscaping and public art to define edges.

New facilities would be constructed in conformance with existing state and CSU guidelines and policies, including the CSU Outdoor Lighting Design Guidelines which state that the lighting aesthetic must compliment the campus architecture and should be consistent between similar areas across the campus. Sensitive viewers on campus include students, faculty, and staff, especially those residing on campus. Facility improvements and new developments would generally be consistent with the existing visual character on campus and would provide improvements to visual resources, such as increased green and open space. Therefore, the Campus Master Plan would not significantly degrade the visual quality for sensitive viewers on campus.

Off-Campus Views

Proposed development under the Campus Master Plan would primarily impact off-campus public views looking towards campus from the main arterial streets such as North State College Boulevard, Yorba Linda Boulevard, and Nutwood Avenue. Based on location and duration of views, sensitive viewers include residents, students and employees at adjacent educational facilities, and employees at public and commercial facilities on Yorba Linda Boulevard and Nutwood Avenue.

Views from Yorba Linda Boulevard

Southward views from sensitive viewers on Yorba Linda Boulevard (represented by Figure 4.1-2, Viewpoints 3 and 4) would not substantially change from the development of parking structures at the northern side of campus, as current views are low to moderate quality and consist mainly of parking areas and landscaping. The Campus Master Plan would add perimeter improvements and visual resources on this side of campus, including tree canopy, beautifying plant buffer along Yorba Linda Boulevard, and entranceway signage at Yorba Linda Boulevard and Campus Drive, as described in Section 2, *Project Description*. Existing views would be marginally improved by the Campus Master Plan and there would be no significant adverse impacts in this area.

Views from North State College Boulevard

Visual quality on campus as seen from sensitive viewers along North State College Boulevard (represented by Figure 4.1-2, Viewpoints 1 and 2) is currently low to moderate in quality. The visual quality would improve from the development proposed under the Campus Master Plan, which would replace visually inconsistent single-story facilities with six and seven-story residential and academic buildings along the western edge of the main campus. The Campus Master Plan would also implement perimeter improvements, including tree canopy, beautifying plant buffer, and five points of art or signage on the length of North State College Boulevard between Yorba Linda Boulevard and Nutwood Avenue. This development North State would add visual resources, strengthen the visual connection of the campus with the street and surrounding off-campus community. While the development would be more intense in this area than along Yorba Linda Boulevard, development would be expected to enhance the visual quality through improved landscaping and unified architectural treatments.

A portion of North State College Boulevard is identified as a Scenic Corridor in The Fullerton Plan. However, the CSUF campus is not visible from this segment of North State College Boulevard except for a very limited view of a parking area on the northwestern corner of campus. Development associated with the Campus Master Plan would not interfere with publicly accessible viewsheds of North State College Boulevard or other identified scenic corridors. Existing views would be marginally improved by the Campus Master Plan and there would be no significant adverse impacts in this area.

Views from Nutwood Avenue

Northward views from sensitive viewers Nutwood Avenue (represented by Figure 4.1-2, Viewpoints 5 and 7) would be the most impacted with development under the Campus Master Plan, mainly due to the addition of a footbridge from the southern area of the campus to the College Park building across the street. The addition of a new academic building and transit hub near Nutwood Avenue would increase connectivity to the street. Construction of the new footbridge (as seen on Figure 2-30 in Section 2.0, *Project Description*) would substantially change the eastern and western views on Nutwood Avenue (see Figure 4.1-2, Viewpoint 6 for eastern view). Nutwood Avenue is not an identified scenic road, and drivers along Nutwood are not considered sensitive viewers. Sensitive viewers include students, faculty, and staff and employees of commercial businesses along Nutwood Avenue, and the footbridge would impact existing views of the street. However, the footbridge would add an attractive visual element that in massing and style would be consistent with the visual character of elements along Nutwood Avenue, and therefore would not degrade existing visual character or scenic views.

A porous line of street trees would be planted along the campus perimeter with Nutwood Avenue to enable fluid movement, and the Campus Master Plan would add new art or signage at the entrance facing Commonwealth Avenue. As with other campus perimeters adjacent to local streets, the Campus Master Plan would be expected to enhance the visual quality of views looking toward campus.

Views from SR 57

Views from SR 57 (represented by Figure 4.1-2, Viewpoint 8) are not scenic and generally low-quality. Additionally, drivers on non-scenic freeways are not considered sensitive viewers, since the duration of views are short. Although the Campus Master Plan would add two new student residence buildings, a new parking structure, and several academic buildings and an event center on

the eastern side of campus, westward views from SR 57 would not change substantially, as the existing row of tall trees would impede most views of the campus. There may be a minor improvement in visual quality with the development of the landscaped buffer proposed along the campus perimeter.

Overall, the Campus Master Plan would strengthen the visual connections from the main campus to the surrounding streets, enhance entranceways and landscaping, and improve visual resources and overall quality of views from sensitive viewers both on and off campus. New buildings would have similar massing, scale, and materials as existing modern buildings, and visual character of the campus would be maintained or improved. Construction impacts would be temporary and not substantially impact sensitive viewers. Therefore, the Campus Master Plan would have less than significant impacts on visual character and public views.

Mitigation Measures

No mitigation required.

Significance After Mitigation

Impacts would be less than significant without mitigation.

Threshold 4:	Would the project create a new source of substantial light or glare that would adversely affect daytime or nighttime views in the area?

Impact AES-4 IMPLEMENTATION OF THE CAMPUS MASTER PLAN WOULD LEAD TO MORE INTENSIVE DEVELOPMENT ON THE CAMPUS AND NEW SOURCES OF NIGHTTIME ILLUMINATION; HOWEVER, FUTURE DEVELOPMENT WOULD BE REQUIRED TO COMPLY WITH CAMPUS MASTER PLAN GUIDELINES, CSU GUIDELINES, AND CALIFORNIA POLICIES AND STANDARDS SPECIFICALLY DESIGNED TO REDUCE LIGHTING IMPACTS. ADHERENCE TO THESE POLICIES AND STANDARDS WOULD REDUCE LIGHT AND GLARE IMPACTS TO A LESS THAN SIGNIFICANT LEVEL. IMPACTS WOULD BE LESS THAN SIGNIFICANT. NO MITIGATION MEASURES ARE REQUIRED.

Implementation of the Campus Master Plan would create new light sources associated with new or remodeled residential and academic buildings, event center, innovation hub, parking garages, and lighting for pathways, signs, transit hubs, security, and pedestrian crossings.

The exterior or façade of facilities developed under the Campus Master Plan could include reflective surfaces such as glass and metal that have the potential to create glare. New sources of exterior lighting, which have the potential to create glare, would be subject to the development guidelines and policies of the California Energy Standards and the CSU system.

The Campus Master Plan provides the following guidance for limiting and reducing impacts from light and glare:

- Create a dense landscape buffer along the perimeter adjacent to SR 57 to block light pollution.
- Residential and academic buildings should be designed with ground-floor illumination from natural sunlight to the extent possible.

The campus is currently characterized by a moderate to high level of nighttime illumination to allow for nighttime operation of campus facilities and events, on-campus residential life, and safety/security purposes. The increase in light or glare as a result of the project would not be substantial, may not be noticeable from off-site locations, and would not adversely affect day or nighttime views in the area. Sensitive light and glare receptors in the City include residents. Those

residents most impacted would be the single-family homes bordering North State College Boulevard, approximately 103 feet east of campus. However, these houses face away from North State College Boulevard which backyards bordered by a concrete wall, which would limit impacts. Multi-family residences approximately 100 feet south and east of the proposed faculty and staff housing facility may experience an increase light or glare from exterior lighting and nighttime traffic from that project. On-campus residents in the student residence halls would experience an increase in nighttime lighting from increased development, but increases would not be substantially more than existing conditions.

However, existing CSU policies and guidelines included in the Campus Master Plan would reduce excessive light on campus and impacts on the surrounding community from light associated with existing development and new development under the Campus Master Plan. Therefore, impacts of the Campus Master Plan related to light and glare would be less than significant.

Mitigation Measures

No mitigation required.

Significance After Mitigation

Impacts would be less than significant without mitigation.

4.2 Air Quality

This section analyzes the potential air quality impacts associated with construction and operation of the Campus Master Plan, including from conflicts with applicable air quality plans, exceedance of air quality standards from criteria pollutant emissions, exposure of sensitive receptors to substantial pollutant concentrations, and odor emissions. The analysis in this section is based in part on modeling using the California Emissions Estimator Model (CalEEMod); modeling outputs are included in Appendix C of this document.

4.2.1 Setting

a. Existing Air Quality Setting

Local Climate and Meteorology

The California State university, Fullerton (CSUF) campus is located in the South Coast Air Basin (SCAB), which is bound by the Pacific Ocean to the west and the San Gabriel, San Bernardino, and San Jacinto Mountains to the north and east, and includes all of Orange County and the non-desert portions of Los Angeles, Riverside, and San Bernardino Counties, in addition to the San Gorgonio Pass area in Riverside County. The regional climate in the SCAB is semi-arid and is characterized by warm summers, mild winters, infrequent seasonal rainfall, moderate daytime onshore breezes, and moderate humidity. Air quality in the SCAB is primarily influenced by meteorology and a wide range of emissions sources, such as dense population centers, substantial vehicular traffic, and industry.

Air pollutant emissions in the SCAB are generated primarily by stationary and mobile sources. Stationary sources can be divided into two major subcategories: point and area sources. Point sources occur at a specific location and are often identified by an exhaust vent or stack. Examples include boilers or combustion equipment that produce electricity or generate heat. Area sources are widely distributed and include such sources as residential and commercial water heaters, painting operations, lawn mowers, agricultural fields, landfills, and some consumer products. Mobile sources refer to emissions from motor vehicles, including tailpipe and evaporative emissions, and are classified as either on-road or off-road. On-road sources may be legally operated on roadways and highways. Off-road sources include aircraft, ships, trains, and self-propelled construction equipment. Air pollutants can also be generated by the natural environment, such as when high winds suspend fine dust particles.

Air Quality Standards

The federal and state governments have established ambient air quality standards for the protection of public health. The United States Environmental Protection Agency (USEPA) is the federal agency designated to administer air quality regulation, while the California Air Resources Board (CARB) is the state equivalent in the California Environmental Protection Agency (CalEPA). County-level Air Pollution Control Districts (APCDs) provide local management of air quality. The South Coast Air Quality Management District (SCAQMD) is the designated air quality control agency in the SCAB. CARB has established air quality standards and is responsible for the control of mobile emission sources, while the local APCDs are responsible for enforcing standards and regulating stationary sources. CARB has established 14 air basins statewide.

The USEPA has set primary national ambient air quality standards (NAAQS) for ozone (O_3), carbon monoxide (CO), nitrogen dioxide (NO_2), sulfur dioxide (SO_2), PM_{10}, $PM_{2.5}$, and lead (Pb). Primary standards are those levels of air quality deemed necessary, with an adequate margin of safety, to protect public health. In addition, California has established health-based ambient air quality standards for these and other pollutants, some of which are more stringent than the federal standards. Table 4.2-1 lists the current federal and state standards for regulated pollutants.

Table 4.2-1 Federal and State Ambient Air Quality Standards

Pollutant	Averaging Time	Federal Primary Standards	California Standard
Ozone	1-Hour	–	0.09 ppm
	8-Hour	0.070 ppm	0.070 ppm
Carbon Monoxide	8-Hour	9.0 ppm	9.0 ppm
	1-Hour	35.0 ppm	20.0 ppm
Nitrogen Dioxide	Annual	0.053 ppm	0.030 ppm
	1-Hour	0.100 ppm	0.18 ppm
Sulfur Dioxide	Annual	–	–
	24-Hour	–	0.04 ppm
	1-Hour	0.075 ppm	0.25 ppm
PM_{10}	Annual	–	20 µg/m^3
	24-Hour	150 µg/m^3	50 µg/m^3
$PM_{2.5}$	Annual	12 µg/m^3	12 µg/m^3
	24-Hour	35 µg/m^3	–
Lead	30-Day Average	–	1.5 µg/m^3
	3-Month Average	0.15 µg/m^3	–

ppm = parts per million
µg/m^3 = micrograms per cubic meter
Source: California Air Resource Board (CARB) 2016

SCAB is designated nonattainment for the federal and state one-hour and eight-hour ozone standards, the state PM_{10} standard, the federal 24-hour $PM_{2.5}$ standard, and the state and federal annual $PM_{2.5}$ standard. SCAB is in attainment of all other federal and state standards.

Air Quality Pollutants of Primary Concern

The federal and state clean air acts mandate the control and reduction of certain air pollutants. Under these laws, USEPA and CARB have established ambient air quality standards for certain criteria pollutants. Ambient air pollutant concentrations are affected by the rates and distributions of corresponding air pollutant emissions, and by the climate and topographic influences discussed above. Proximity to major sources is the primary determinant of concentrations of non-reactive pollutants, such as CO and suspended particulate matter. Ambient CO levels usually follow the spatial and temporal distributions of vehicular traffic. A discussion of each primary criterion pollutant is provided below.

Ozone

Ozone is produced by a photochemical reaction (i.e., triggered by sunlight) between nitrogen oxides (NO_X) and reactive organic gases (ROG).[1] NO_X is formed during the combustion of fuels, while ROG is formed during combustion and evaporation of organic solvents. Because ozone requires sunlight to form, it mostly occurs in substantial concentrations between the months of April and October. Ozone is a pungent, colorless, toxic gas with direct health effects on humans including respiratory and eye irritation and possible changes in lung functions. Groups most sensitive to ozone include children, the elderly, people with respiratory disorders, and people who exercise strenuously outdoors.

Carbon Monoxide

CO is an odorless, colorless gas and causes a number of health problems including fatigue, headache, confusion, and dizziness. The incomplete combustion of petroleum fuels in on-road vehicles and at power plants is a major cause of CO. CO is also produced during the winter from wood stoves and fireplaces. CO tends to dissipate rapidly into the atmosphere; consequently, violations of the state CO standards are associated generally with major roadway intersections during peak-hour traffic conditions.

Localized CO “hotspots” can occur at intersections with heavy peak-hour traffic. Specifically, hotspots can be created at intersections where traffic levels are sufficiently high that the local CO concentration exceeds the NAAQS of 35.0 ppm or the CAAQS of 20.0 ppm.

Nitrogen Dioxide

NO_2 is a by-product of fuel combustion, with the primary source being motor vehicles and industrial boilers and furnaces. Nitric oxide is the principal form of nitrogen oxide produced by combustion, but nitric oxide reacts rapidly to form NO_2, creating the mixture of NO and NO_2 commonly called NO_X. Nitrogen dioxide is an acute irritant. A relationship between NO_2 and chronic pulmonary fibrosis may exist, and an increase in bronchitis may occur in young children at concentrations below 0.3 ppm. Nitrogen dioxide absorbs blue light and causes a reddish brown cast to the atmosphere and reduced visibility. It can also contribute to the formation of PM_{10} and acid rain.

Suspended Particulate Matter

PM_{10} is particulate matter measuring no more than 10 microns in diameter; $PM_{2.5}$ is fine particulate matter measuring no more than 2.5 microns in diameter. Suspended particulates are mostly dust particles, nitrates, and sulfates. Both PM_{10} and $PM_{2.5}$ are by-products of fuel combustion and wind erosion of soil and unpaved roads and are directly emitted into the atmosphere through these processes. Suspended particulates are also created in the atmosphere through chemical reactions. The characteristics, sources, and potential health effects associated with the small particulates (those between 2.5 and 10 microns in diameter) and fine particulates (those 2.5 microns and below) can be very different.

[1] Organic compound precursors of ozone are routinely described by a number of variations of three terms: hydrocarbons (HC), organic gases (OG), and organic compounds (OC). These terms are often modified by adjectives such as total, reactive, or volatile, and result in a rather confusing array of acronyms: HC, THC (total hydrocarbons), RHC (reactive hydrocarbons), TOG (total organic gases), ROG (reactive organic gases), TOC (total organic compounds), ROG (reactive organic compounds), and VOC (volatile organic compounds). While most of these differ in some significant way from a chemical perspective, two groups are important from an air quality perspective: non-photochemically reactive in the lower atmosphere, or photochemically reactive in the lower atmosphere (HC, RHC, ROG, and VOC).

The small particulates generally come from windblown dust and dust kicked up by mobile sources. The fine particulates are generally associated with combustion processes, and form in the atmosphere as a secondary pollutant through chemical reactions. Fine particulate matter is more likely to penetrate deeply into the lungs and poses a health threat to all groups, but particularly to the elderly, children, and those with respiratory problems. More than half of the small and fine particulate matter inhaled into the lungs remains there. These materials can damage health by interfering with the body's mechanisms for clearing the respiratory tract or by acting as carriers of an absorbed toxic substance.

Toxic Air Contaminants

The California Health and Safety Code defines a toxic air contaminant (TAC) as "an air pollutant which may cause or contribute to an increase in mortality or in serious illness, or which may pose a present or potential hazard to human health." The majority of the estimated health risks from TACs can be attributed to relatively few compounds, the most important being diesel particulate matter (DPM) from diesel-fueled engines. According to CARB, diesel engine emissions are believed to be responsible for about 70 percent of California's estimated known cancer risk attributable to TACs and they make up about 8 percent of outdoor $PM_{2.5}$ (CARB 2016b).

Lead

Lead (Pb) is a metal found in the environment and in manufacturing products. The major sources of Pb emissions historically have been mobile and industrial sources. In the early 1970s, the USEPA set national regulations to gradually reduce the lead content in gasoline. In 1975, unleaded gasoline was introduced for motor vehicles equipped with catalytic converters. The USEPA completed the ban prohibiting the use of leaded gasoline in highway vehicles in December 1995. As a result of the USEPA's regulatory efforts to remove lead from gasoline, atmospheric lead concentrations have declined substantially over the past several decades. The most dramatic reductions in lead emissions occurred prior to 1990 due to the removal of lead from gasoline sold for most highway vehicles. Lead emissions were further reduced substantially between 1990 and 2008, with reductions occurring in the metals industries at least in part as a result of national emissions standards for hazardous air pollutants (USEPA 2013). Because of phasing out leaded gasoline, metal processing is now the primary source of lead emissions. The highest level of lead in the air is found generally near lead smelters. Other stationary sources include waste incinerators, utilities, and lead-acid battery manufacturers.

Current Air Quality

The SCAQMD operates a network of air quality monitoring stations throughout the SCAB. The purpose of the monitoring stations is to measure ambient concentrations of pollutants and determine whether ambient air quality meets the California and federal standards. The monitoring station located closest to the project is the Anaheim-Pampas Lane station, located at 1630 W. Pampas Lane, Anaheim, approximately 4.5 miles southwest of the project site. Table 4.2-2 indicates the number of day that each of the air quality standards have been exceeded at the Anaheim-Pampas Lane station.

Table 4.2-2 Ambient Air Quality at the Anaheim Pampas Lane Monitoring Station

Pollutant	2016	2017	2018
8-Hour Ozone (ppm), 8-Hour Maximum	0.074	0.076	0.071
Number of Days of State exceedances (>0.070)	4	4	1
Number of days of Federal exceedances (>0.070)	4	4	1
Ozone (ppm), 1-Hour Maximum	0.103	0.090	0.112
Number of days of State exceedances (>0.09 ppm)	2	0	1
Number of days of Federal exceedances (>0.112 ppm)	0	0	0
Nitrogen Dioxide (ppb) - 1-Hour Maximum	64.3	81.2	66.0
Number of days of State exceedances (>0.18 ppm)	0	0	0
Number of days of Federal exceedances (0.10 ppm)	0	0	0
Particulate Matter 10 microns, $\mu g/m^3$, 24-Hour Maximum	74.0	95.7	94.6
Number of days above Federal standard (>150 $\mu g/m^3$)	0	0	0
Particulate Matter <2.5 microns, $\mu g/m^3$, 24-Hour Maximum	44.4	53.9	63.1
Number of days above Federal standard (>35 $\mu g/m^3$)	1	7	7

Source: CARB 2019

Sensitive Receptors

Ambient air quality standards have been established to represent the levels of air quality considered sufficient, with a margin of safety, to protect public health and welfare. They are designed to protect that segment of the public most susceptible to respiratory distress, such as children under 14, the elderly over 65, persons engaged in strenuous work or exercise, and people with cardiovascular and chronic respiratory diseases. The majority of sensitive receptor locations are, therefore, schools, hospitals, and residences.

b. Regulatory Setting

Federal

Federal Clean Air Act

The USEPA is charged with implementing national air quality programs. USEPA's air quality mandates are drawn primarily from the federal Clean Air Act (CAA), passed in 1963 by the U.S. Congress and amended several times. The 1970 federal CAA amendments strengthened previous legislation and laid the foundation for the regulatory scheme of the 1970s and 1980s. In 1977, Congress again added several provisions, including non-attainment requirements for areas not meeting NAAQS and the Prevention of Significant Deterioration program. The 1990 federal CAA amendments represent the latest in a series of federal efforts to regulate air quality in the United States. The federal CAA allows states to adopt more stringent standards or to include additional pollution species.

National Ambient Air Quality Standards

The federal CAA requires USEPA to establish primary and secondary NAAQS for a number of criteria air pollutants. The air pollutants for which standards have been established are considered the most prevalent air pollutants known to be hazardous to human health. NAAQS have been established for ozone, CO, NO_2, SO_2, PM_{10}, $PM_{2.5}$, and Pb.

State

California Clean Air Act

The California CAA, signed into law in 1988, requires all areas of the state to achieve and maintain the CAAQS by the earliest practical date. CARB is the state air pollution control agency and is a part of CalEPA. CARB is the agency responsible for coordination and oversight of state and local air pollution control programs in California, and for implementing the requirements of the California CAA. CARB overseas local district compliance with federal and California laws, approves local air quality plans, submits the state implementation plans to the USEPA, monitors air quality, determines and updates area designations and maps, and sets emissions standards for new mobile sources, consumer products, small utility engines, off-road vehicles, and fuels.

California Ambient Air Quality Standards

The California CAA requires CARB to establish CAAQS. Similar to the NAAQS, CAAQS have been established for ozone, CO, NO_2, SO_2, PM_{10}, $PM_{2.5}$, Pb, vinyl chloride, hydrogen sulfide, sulfates, and visibility-reducing particulates. In most cases, the CAAQS are more stringent than the NAAQS. The California CAA requires all local air districts to endeavor to achieve and maintain the CAAQS by the earliest practical date. The California CAA specifies that local air districts should focus attention on reducing the emissions from transportation and area-wide emission sources and provides districts with the authority to regulate indirect sources.

Regional and Local

Southern California Association of Governments

The Southern California Association of Governments (SCAG) is a regional planning agency that serves as a forum for regional issues relating to transportation, economics, community development, and environmental issues. SCAG is not an air quality management agency, but it is responsible for development transportation, land use, and energy conservation measures that impact air quality. SCAG's Regional Comprehensive Plan and Guide provide growth forecasts used by SCAQMD to develop air quality and land use strategies (SCAG 2008). SCAG is charged with developing and implementing Senate Bill 375, a measure that addresses greenhouse gas reduction in the state, with participation from Riverside County and the other cities and counties that make up SCAG.

South Coast Air Quality Management District Air Quality Management Plan

The SCAQMD is required to prepare a plan for air quality improvement for pollutants for which the District is in non-compliance. The District's Air Quality Management Plan (AQMP) is updated every three years, and each update has a 20-year horizon. The 2016 AQMP was adopted on March 3, 2017 and incorporated new scientific data and notable regulatory actions that have come about since

adoption of the 2012 AQMP, including the approval of the new federal eight-hour ozone standard of 0.070 ppm that was finalized in 2015 (SCAQMD 2017).

The 2016 AQMP addresses several federal and state planning requirements and incorporates new scientific information, primarily in the form of updated emissions inventories, ambient measurements, and updated meteorological air quality models (SCAQMD 2017). The 2016 AQMP builds upon the approaches taken in the 2012 AQMP for the attainment of federal particulate matter and ozone standards and highlights the significant reductions to be achieved. It emphasizes the need for interagency planning to identify strategies to achieve reductions within the timeframes allowed under the federal CAA, especially in the area of mobile sources. The 2016 AQMP also includes a discussion of emerging issues and opportunities, such as fugitive toxic particulate emissions, zero-emission mobile source control strategies, and the interacting dynamics among climate, energy, and air pollution. The AQMP includes attainment demonstrations of the new federal eight-hour ozone standard and vehicle miles traveled emissions offsets, according to recent USEPA requirements.

The Fullerton Plan

The Air Quality and Climate Change Element of the Fullerton Plan recognizes the importance of achieving the regional air quality objectives. The Fullerton Plan seeks to protect the well-being of citizens within the City of Fullerton through improvement of air quality. The Fullerton Plan includes the following goals and policies related to air quality:

Goal 5: A balanced system promoting transportation alternatives that enable mobility and an enhanced quality of life.

Policy 5.16: Support projects, programs, policies and regulations to encourage the development of private and/or public infrastructure facilitating the use of alternative fuel vehicles.

Goal 6: A bicycle-friendly city where bicycling is a safe and convenient alternative to motorized transportation and a recreational opportunity for people of all ages and abilities.

Policy 6.1: Support regional and subregional efforts to ensure bicyclists are considered when developing new or retrofitting existing transportation facilities and systems.

Policy 6.7: Support projects, programs, policies, and regulations to reduce negative impacts to and increase opportunities for bicycle users and the bicycle network in private and public development projects.

Policy 6.12: Support projects, programs, policies, and regulations to provide convenient bicycle parking and other bicycle facilities in existing and potential high demand locations within the City, such as educational institutions, parks, business districts, transit stops, retail, commercial and employment centers.

Policy 6.14: Support projects, programs, policies and regulations to consider bicycle friendly design using new technologies and innovative treatments.

Goal 21: Protection and improvement of Air Quality

Policy 21.4: Support projects, programs, policies and regulations to promote a balance of residential, commercial, industrial, recreational and institutional uses located to provide options to reduce vehicle trips and vehicle miles traveled.

Policy 21.6: Support projects, programs, policies and regulations to reduce impacts to air quality caused by private and public construction projects.

Policy 21.7: Support projects, programs, policies and regulations to reduce impacts to air quality caused by the design or operation of a site or use.

4.2.2 Impact Analysis

a. Thresholds of Significance

To determine whether a project would result in a significant impact to air quality, Appendix G of the CEQA Guidelines requires consideration of whether a project would:

1. Conflict with or obstruct implementation of the applicable air quality plan
2. Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is in non-attainment under an applicable federal or state ambient air quality standard
3. Expose sensitive receptors to substantial pollutant concentrations
4. Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people

Regional Significance Thresholds

The SCAQMD recommends quantitative regional significance thresholds for temporary construction activities and long-term project operation in the SCAB, shown in Table 4.2-3.

Table 4.2-3 SCAQMD Regional Significance Thresholds

Construction Thresholds	Operational Thresholds
75 pounds per day of ROG	55 pounds per day of ROG
100 pounds per day of NO_X	55 pounds per day of NO_X
550 pounds per day of CO	550 pounds per day of CO
150 pounds per day of SO_X	150 pounds per day of SO_X
150 pounds per day of PM_{10}	150 pounds per day of PM_{10}
55 pounds per day of $PM_{2.5}$	55 pounds per day of $PM_{2.5}$

Source: SCAQMD 2015

Localized Significance Thresholds

In addition to the above regional thresholds, the SCAQMD has developed Localized Significance Thresholds (LSTs) in response to the Governing Board's Environmental Justice Enhancement Initiative (1-4), which was prepared to update the *CEQA Air Quality Handbook* (1993). LSTs were devised in response to concern regarding exposure of individuals to criteria pollutants in local communities and have been developed for NO_X, CO, PM_{10}, and $PM_{2.5}$. LSTs represent the maximum emissions from a project that will not cause or contribute to an air quality exceedance of the most stringent applicable federal or state ambient air quality standard at the nearest sensitive receptor, taking into consideration ambient concentrations in each source receptor area (SRA), distance to the sensitive receptor, and project size. LSTs have been developed for emissions within construction areas up to five acres in size. However, LSTs only apply to emissions in a fixed stationary location and are not applicable to mobile sources, such as cars on a roadway (SCAQMD 2008). As such, LSTs

are typically applied only to construction emissions because the majority of operational emissions are associated with project-generated vehicle trips.

The SCAQMD provides LST lookup tables for project sites that measure one, two, or five acres. Overall project construction would occur over several hundred acres, and each phase modeled (described below under *Methodology*) would cover an area that exceeds five acres. Therefore, the LST analysis conservatively uses five-acre LSTs. LSTs are provided for receptors at a distance of 82 to 1,640 feet from the project disturbance boundary to the sensitive receptors. The border of construction activity would occur approximately 50 feet nearest to on-site sensitive receptors and 75 feet to off-site sensitive (multi-family residential buildings). According to the SCAQMD's publication, *Final LST Methodology*, projects with boundaries located closer than 82 feet to the nearest receptor should use the LSTs for receptors located at 82 feet. Therefore, the analysis below uses the LST values for 82 feet. In addition, the project is located in SRA 16 (North Orange County). LSTs for construction in SRA 16 on a 5-acre site with a receptor 82 feet away are shown in Table 4.2-4.

Table 4.2-4 SCAQMD LSTs for Construction (SRA 11)

Pollutant	Allowable Emissions for a 5-acre Site in SRA 16 for a Receptor 82 Feet Away (lbs/day)
Gradual conversion of NO_X to NO_2	221
CO	1,311
PM_{10}	11
$PM_{2.5}$	6

Source: SCAQMD 2009

Health Risk Thresholds

SCAQMD has developed significance thresholds for the emissions of TACs based on health risks associated with elevated exposure to such compounds. For carcinogenic compounds, cancer risk is assessed in terms of incremental excess cancer risk. A project would result in a potentially significant impact if it would generate a Maximum Incremental Cancer Risk of 10 in 1 million or a cancer burden of 0.5 excess cancer cases in areas exceeding 1 in 1 million risk. Additionally, non-carcinogenic health risks are assessed in terms of a Hazard Index. A project would result in a potentially significant impact if it would result in a chronic and acute Hazard Index greater than 1.0 (SCAQMD 2015).

b. Methodology

Criteria pollutant and GHG emissions for project construction and operation were calculated using the CalEEMod, Version 2016.3.2. CalEEMod is a statewide land use emissions computer model designed to provide a uniform platform for government agencies, land use planners, and environmental professionals to quantify potential criteria pollutant and GHG emissions associated with both construction and operations from a variety of land use projects. The model was developed by BREEZE Software for the California Air Pollution Control Officers Association (CAPCOA) in collaboration with the California air districts. CalEEMod allows for the use of standardized data (e.g., emission factors, trip lengths, meteorology, source inventory) provided by the various California air districts to account for local requirements and conditions, and/or user-defined inputs. The model calculates criteria pollutant emissions and GHGs emissions, reported as CO_2e (discussed

further in Section 4.7, *Greenhouse Gas Emissions*). The calculation methodology and input data used in CalEEMod can be found in the CalEEMod User's Guide Appendices A, D, and E (CAPCOA 2017). The input data and subsequent construction and operation emission estimates for the project are detailed in the following discussion. CalEEMod output files for the project are included in Appendix C of the EIR.

Construction Emissions

Project construction would primarily generate temporary criteria pollutant and GHG emissions from construction equipment operation on-site, construction worker vehicle trips to and from the site, and from export of materials off-site. Construction input data for CalEEMod include but are not limited to: (1) the anticipated start and finish dates of construction activity; (2) inventories of construction equipment to be used; (3) areas to be excavated and graded; and (4) volumes of materials to be exported from and imported to the project site. The analysis assessed maximum daily emissions from individual construction activities, including demolition and site preparation, grading, building construction, paving, and architectural coating. Construction equipment estimates are based on surveys of construction projects within California conducted by members of CAPCOA (CAPCOA 2017). Diesel welders were removed from CalEEMod default construction list for building construction because they would not be anticipated to be used in construction; instead, electric welders are more common in modern construction and these would be covered by a generator set during the building construction phase.

Projects were not included in the modeling that were previously approved under the 2003 Campus Master Plan, that are currently under construction or funded through the CSUF Five-Year Capital Plan, and/or that have previously undergone environmental review. Projects under the approximately 5 million square feet of total new construction identified in Section 2, *Project Description*, were included in the modeling. It was assumed that construction of these projects would begin in 2024 to allow for construction of the previously approved projects and construction would continue until approximately 2039. For modeling purposes, it was assumed that these remaining projects would be completed in three phases, with the first phase occurring from 2024 to 2029, the second phase occurring from 2030 to 2034, and the third phase occurring from 2035 to 2039. Each phase was modeled as one large construction project; i.e., each phase was modeled with a demolition, site preparation, grading, building construction, paving, and architectural coating phases that occur sequentially where all buildings are constructed at once, graded at once, etc. This is a conservative approach as it assumes a continuous, intensive construction scenario. The default construction phase lengths were modified in certain phases to accommodate the phase lengths and buildout year of 2039.

The academic space and campus amenity square footage was divided between the three phases. It was assumed that the housing portions (both student and faculty) and event center would be constructed during the first phase. It was assumed that two parking structures would be constructed in the latter two phases, with each structure having a square footage of 838,688 square feet. With these assumptions, this would result in development intensities of approximately 2.2 million square feet during the Phase 1 (2024 to 2029), and 1.5 million square feet during Phase 2 (2030 to 2034) and Phase 3 (2035 to 2039). This would equate to an annual development intensity of approximately 367,000 sf during Phase 1 and 300,000 sf during Phases 2 and 3. This is a conservative assumption as it frontloads more development during earlier years where CalEEMod assumes higher emissions for construction equipment (i.e., as time progresses, construction equipment is assumed to be more efficient and result in lower emissions). It should be noted that the sequencing and phasing of proposed construction is only a prediction and is ultimately subject

to funding, demand, etc. Project-specific information used in model assumptions is based on information at this stage of planning; the information is preliminary and subject to change when specific individual projects are undertaken. The analysis is presented as a reasonable, conservative scenario of potential project impacts given available information. It is possible that later Campus Master Plan years include a higher development intensity than earlier years; however, by performing the analysis where higher development intensities occur in earlier years, the emissions estimates are more conservative.

Components identified in the Campus Master Plan as “renovation” or “open space” were not included in the CalEEMod modeling; these activities were assumed to not involve heavy construction equipment and would result in negligible construction emissions compared to demolition and construction activities of new components.

The amount of demolition for each phase was estimated by determining the buildings to be demolished for each building in each phase and measuring the building footprint square footage for each building to be demolished on Google Earth. The footprint square footage was then multiplied by the number of floors for each building to determine the total square footage to be demolished. The amount of import and export of soil for each phase was estimated by assuming a 20-foot cut depth for each new building’s square footage, and then assuming 50 percent of that soil would be exported and 50 percent imported.

CalEEMod has the capability to calculate reductions in construction emissions from the effects of dust control, diesel-engine classifications, and other selected emissions reduction measures. Emissions calculations assume application of water during grading and a 15-mph speed limit on unpaved surfaces in compliance with SCAQMD Rule 403, Fugitive Dust (as detailed in Section 2, *Project Description*), and use of architectural coatings with a VOC content of 50 g/L in compliance with SCAQMD Rule 1113. Based on CalEEMod version 2016.3.2, the PM_{10} and $PM_{2.5}$ reduction for watering two times per day is 55 percent. In addition, as detailed in Section 2, Campus Master Plan projects would require use of at Tier 4 Final or more stringent construction equipment; Tier 4 equipment was included in the modeling.

Operational Emissions

In CalEEMod, operational sources of criteria pollutant emissions include area, energy, and mobile sources. These sources are described below.

ENERGY SOURCES

Emissions from energy use that generate criteria pollutant emissions include natural gas use. The emissions factors for natural gas combustion are based on USEPA’s AP-42 (*Compilation of Air Pollutant Emissions Factors*) and California Climate Action Registry (CCAR) General Reporting Protocol (CCAR 2009). Electricity emissions only apply to GHG emissions (as discussed in Section 4.7, *Greenhouse Gas Emissions*, of this EIR) as the energy is generated off-site and therefore may not be relevant for local and regional air quality conditions.

AREA SOURCES

Emissions associated with area sources, including space and water heating, consumer products, landscape maintenance, and architectural coating were calculated in CalEEMod and utilize standard emission rates from CARB, USEPA, and emission factor values provided by the local air district (CAPCOA 2017).

MOBILE SOURCES

Mobile source emissions are generated by the increase in vehicle trips to and from the project site associated with operation of onsite development. Baseline vehicle trips for the project were calculated using the Institute of Transportation Engineers (ITE) trip generation rates included in CalEEMod for each proposed land use. Baseline trip rates were then adjusted to account for the project-generated vehicle miles traveled (VMT) as determined by the project's Transportation Impact Study (TIS; Appendix M). The TIS determined that the project-generated VMT per service population would be 14.38 miles; this rate would be for the weekdays when students and employees are commuting to school. Assuming 261 weekdays per year with 8,000 people in the service population (4,000 commuter students, 3,000 resident students, and 1,000 employees), this would result in 30,025,440 annual VMT on weekdays. Due to the school use, for Saturday and Sunday trips and therefore VMT would be reduced. The proportion of trips on these days compared to the weekdays in CalEEMod was used to reduce the VMT accordingly;[2] therefore, 4,997,935 annual VMT would be generated on the 52 Saturdays in a year, and 1,976,785 VMT would be generated on the 52 Sundays in a year. Total project annual VMT was estimated at 37,000,160 VMT, and the CalEEMod output was modified to reflect this VMT total.

c. Impact Analysis

Threshold 1:	Would the project conflict with or obstruct implementation of the applicable air quality plan?

IMPLEMENTATION OF THE CAMPUS MASTER PLAN WOULD NOT GENERATE POPULATION, HOUSING, OR EMPLOYMENT GROWTH EXCEEDING FORECASTS IN THE 2016 AQMP. HOWEVER, PROJECT OPERATION WOULD EXCEED THE SCAQMD THRESHOLDS FOR OZONE PRECURSORS (ROG AND NOX) ON WHICH THE AQMP BASES ATTAINMENT STRATEGIES AND MEASURES. THIS IMPACT WOULD BE SIGNIFICANT AND UNAVOIDABLE. FOLLOWING MITIGATION, IMPACTS WOULD STILL BE SIGNIFICANT AND UNAVOIDABLE.

A project may be inconsistent with the AQMP if it would generate population, housing, or employment growth exceeding forecasts used in the development of the AQMP. The 2016 AQMP, the most recent AQMP adopted by the SCAQMD, incorporates local city general plans and the SCAG's 2016 RTP/SCS socioeconomic forecast projections of regional population, housing, and employment growth.

The updated growth forecasts in SCAG's 2016 RTP/SCS estimate that the population of the City of Fullerton would be 160,500 in 2040, up 22,500 people from a population of 145,700. The Campus Master Plan would involve an increase of 7,000 full time equivalent students (FTES) (from 25,000 to 32,000 FTES) and 1,000 faculty. This increase in population would be within the SCAG's projected 2040 population increase of 14,800 from 2020; in addition, many of these students and faculty would already be living within the City of Fullerton. Therefore, implementation of the Campus Master Plan would not cause the City of Fullerton to exceed official regional population projections.

The household growth forecasts in SCAG's 2016 RTP/SCS estimate that the total number of households would increase from 48,800 in 2020 to 55,200 in 2040, for an increase of 6,400. The Campus Master Plan would increase the number of student beds by 2,400 and faculty housing units by 350. This increase in households would be within SCAG's project 2040 household increase of

[2] For the student housing uses, Saturdays and Sundays would have 96 percent and 88 percent of the weekday total, respectively; for the university uses, Saturdays and Sundays would have 76 percent and zero percent of the weekday total, respectively.

6,400 from 2020, and the project would not cause the City of Fullerton to exceed official regional household projections.

The employment growth forecasts in SCAG's 2016 RTP/SCS for the City of Fullerton estimate that the total number of jobs would increase from 78,000 in 2020 to 94,100 in 2040, for an increase of 16,100 jobs. The increase in employment anticipated from the Campus Master Plan of 1,000 would be within the SCAG's project 2040 employment increase of 16,100 jobs from 2020, and the project would not cause the City of Fullerton to exceed official regional employment projections.

Further in support of SCAG's overall goals in the 2016 RTP/SCS, the project would increase student housing opportunities on campus, which would work to reduce long commuter trips and area-wide congestion. The project is consistent with SCAG's growth projections and land use policies, including the policies of focusing growth and development within urban areas, encouraging infill development, and re-using previously developed urban land. CSUF implements, and would continue to implement pursuant through the Campus Master Plan, numerous programs and policies to improve air quality in the region, including Transportation Demand Management (TDM) measures that would reduce vehicle trips and minimizing energy use through project design.

The AQMP provides strategies and measures to reach attainment with the thresholds for 8-hour and 1-hour ozone and $PM_{2.5}$. As shown in Table 4.2-5, project construction would not generate criteria pollutant emissions that would exceed SCAQMD thresholds for ozone precursors (ROG and NO_X) and $PM_{2.5}$. However, as shown in Table 4.2-6, project operation would exceed SCAQMD thresholds for ozone precursors. Therefore, although implementation of the project would not generate population, housing, or employment growth exceeding forecasts used in the development of the 2016 AQMP, project operation would exceed the SCAQMD thresholds for ozone that the AQMP provides strategies and measures to reach attainment with. Impacts would be potentially significant.

Mitigation Measures

See mitigation measures under Impact AQ-2 below.

Significance After Mitigation

With implementation of mitigation, project operation would still exceed SCAQMD thresholds for ozone precursors (ROG and NO_X). Therefore, the project would result in **significant and unavoidable** impacts. Further discussion is provided to connect the project's air quality impacts to likely health consequences with the unmitigable impacts under Impact AQ-2 below.

Threshold 2:	Would the project result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard?

CONSTRUCTION OF THE CAMPUS MASTER PLAN WOULD NOT GENERATE POLLUTANTS IN QUANTITIES THAT EXCEED SCAQMD SIGNIFICANCE THRESHOLDS. OPERATION WOULD EXCEED SCAQMD THRESHOLDS FOR ROG AND NOX. THIS IMPACT WOULD BE SIGNIFICANT AND UNAVOIDABLE. FOLLOWING MITIGATION, IMPACTS WOULD STILL BE SIGNIFICANT AND UNAVOIDABLE.

In accordance with CEQA Guidelines Section 15064(h)(3), the SCAQMD's approach for assessing cumulative impacts is based on the AQMP forecasts of attainment of ambient air quality standards in accordance with the requirements of the federal and State CAAs. If a project's mass regional emissions do not exceed the applicable SCAQMD, then the project's criteria pollutant emissions would not be cumulatively considerable.

On December 24, 2018, the California Supreme Court (Court) addressed the standard of review for claims challenging the legal sufficiency of an EIR's discussion of environmental impacts in *Sierra Club v. County of Fresno* (Friant Ranch, L.P.) (2018). In affirming in part the Court of Appeal's judgment, the Supreme Court held that the EIR for the Friant Ranch Project—a 942-acre master-planned, mixed-use development with over 2,500 senior residential units, 250,000 square feet of commercial space, and extensive open space/ recreational amenities on former agricultural land in north central Fresno County—was deficient in its informational discussion of the human health impacts of the Friant Ranch Project's significant and unavoidable impacts related to air quality.

The Court concluded that an EIR's discussion must: (1) "include sufficient detail to enable those who did not participate in its preparation to understand and to consider meaningfully the issues the project raises" (citing *Laurel Heights Improvement Assn. v. Regents of University of California* (1988) 47 Cal.3d 376, 405 ("Laurel Heights I")); and (2) "make a reasonable effort to substantively connect a project's air quality impacts to likely health consequences." It held that the Friant Ranch Project EIR did neither, and "should be revised to relate the expected adverse air quality impacts to likely health consequences or explain in meaningful detail why it is not feasible at the time of drafting to provide such an analysis, so that the public may make informed decisions regarding the costs and benefits of the project."

The following discussion provides additional information on the health consequences of ozone to what was discussed earlier in this section, and a discussion of the infeasibility to provide a quantitative analysis that connects ozone-related health impacts from the project to the immediate site area.

Health Consequences of Ozone

A summary discussion of air pollution and potential health effects was provided in Section 4.2.1. In addition, the national and state criteria pollutants and the applicable ambient air quality standards were also provided in Section 4.2.1. As stated above, air pollution is a major public health concern and the adverse health effects associated with air pollution are diverse. Ozone is a pungent, colorless, toxic gas with direct health effects on humans, including respiratory and eye irritation and possible changes in lung functions and groups most sensitive to ozone include children, the elderly, persons with respiratory disorders, and people who exercise strenuously outdoors.

The adverse effects reported with short-term ozone exposure are greater with increased activity because activity increases the breathing rate and the volume of air reaching the lungs, resulting in

an increased amount of ozone reaching the lungs. Children may be a particularly vulnerable population to air pollution effects because they spend more time outdoors, are generally more active, and have a higher ventilation rate than adults. A number of adverse health effects associated with ambient ozone levels have been identified from laboratory and epidemiological studies. These include increased respiratory symptoms, damage to cells of the respiratory tract, decreases in lung function, increased susceptibility to respiratory infection, and increased risk of hospitalization.

The Children's Health Study, conducted by researchers at the University of Southern California, followed a cohort of children that live in 12 communities in southern California with differing levels of air pollution for several years. A publication from this study found that school absences in fourth graders for respiratory illnesses were associated with ambient ozone levels. An increase of 20 ppb ozone was associated with an 83 percent increase in illness-related absence rates (Gilliland et al. 2004). The number of hospital admissions and emergency room visits for all respiratory causes (infections, respiratory failure, chronic bronchitis, etc.) including asthma show a consistent increase as ambient ozone levels increase in a community. These excess hospital admissions and emergency room visits are observed when hourly ozone concentrations are as low as 0.08 to 0.10 ppm.

Numerous recent studies have found positive associations between increases in ozone levels and excess risk of mortality. These associations persist even when other variables including season and levels of particulate matter are accounted for. This indicates that ozone mortality effects are independent of other pollutants (Bell et al. 2004). Several population-based studies suggest that asthmatics are more adversely affected by ambient ozone levels, as evidenced by increased hospitalizations and emergency room visits. Laboratory studies have attempted to compare the degree of lung function change seen in age and gender-matched healthy individuals versus asthmatics and those with chronic obstructive pulmonary disease. While the degree of change evidenced did not differ significantly, that finding may not accurately reflect the true impact of exposure on these respiration-compromised individuals. Since the respiration- compromised group may have lower lung function to begin with, the same degree of change may represent a substantially greater adverse effect overall.

A publication from the Children's Health Study focused on children and outdoor exercise. In communities with high ozone concentrations, the relative risk of developing asthma in children playing three or more sports was found to be over three times higher than in children playing no sports (McConnell et al. 2002). These findings indicate that new cases of asthma in children are associated with heavy exercise in communities with high levels of ozone. The susceptibility to ozone observed under ambient conditions could be due to the combination of pollutants that coexist in the atmosphere or ozone may actually sensitize these subgroups to the effects of other pollutants. A study of birth outcomes in southern California found an increased risk for birth defects in the aortic and pulmonary arteries associated with ozone exposure in the second month of pregnancy (Ritz et al. 2000). In summary, acute adverse effects associated with ozone exposures have been well documented, although the specific causal mechanism is still somewhat unclear. Additional research efforts are required to evaluate the long-term effects of air pollution and to determine the role of ozone in influencing chronic effects.

The evidence linking these effects to air pollutants is derived from population based observational and field studies (epidemiological) as well as controlled laboratory studies involving human subjects and animals. There have been an increasing number of studies focusing on the mechanisms (that is, on learning how specific organs, cell types, and biochemicals are involved in the human body's response to air pollution) and specific pollutants responsible for individual effects. Yet the underlying biological pathways for these effects are not always clearly understood. Although

individuals inhale pollutants as a mixture under ambient conditions, the regulatory framework and the control measures developed are mostly pollutant-specific. This is appropriate, in that different pollutants usually differ in their sources, their times and places of occurrence, the kinds of health effects they may cause, and their overall levels of health risk. Different pollutants, from the same or different sources, may sometimes act together to harm health more than they would acting separately. Nevertheless, as a practical matter, health scientists, as well as regulatory officials, usually must deal with one pollutant at a time in determining health effects and in adopting air quality standards. To meet the air quality standards, comprehensive plans are developed such as the SCAQMD's AQMP.

Project Impact on Human Health from Ozone

In its Friant Ranch decision, the California Supreme Court conceded that the explanation of the connection between an individual project's pollutant emissions in excess of thresholds and human health effects may not be possible given the current state of environmental science modeling. However, the California Supreme Court concluded that an EIR itself must explain, in a manner reasonably calculated to inform the public, the scope of what is and is not yet known about the effect of a project's significant and unavoidable air quality impacts on human health. The specific language provided by the Court is:

> The EIR fails to provide an adequate discussion of health and safety problems that will be caused by the rise in various pollutants resulting from the Project's development. At this point, we cannot know whether the required additional analysis will disclose that the Project's effects on air quality are less than significant or unavoidable, or whether that analysis will require reassessment of proposed mitigation measures. Absent an analysis that reasonably informs the public how anticipated air quality effects will adversely affect human health, an EIR may still be sufficient if it adequately explains why it is not scientifically feasible at the time of drafting to provide such an analysis.

The following information is provided to be consistent with the Court's opinion by adequately explaining why it is not scientifically feasible at the time of drafting this analysis to provide an analysis explaining the connection between a project's regional pollutant emissions and human health. This information is based upon the San Joaquin Valley Air Pollution Control District (SJVAPCD) and SCAQMD amicus briefs filed in the Friant Ranch decision that explain the difficulties in providing a correlation between regional pollutant emissions and human health. The findings and conclusions from the SJVAPCD and SCAQMD are considered applicable and germane to the issue. The complete amicus briefs are included as Appendix D.

With regard to the analysis of air quality-related health impacts, the SCAQMD, the air quality authority for the SCAB, has stated that "EIRs must generally quantify a project's pollutant emissions, but in some cases, it is not feasible to correlate these emissions to specific, quantifiable health impacts (e.g., premature mortality; hospital admissions)." In such cases, a general description of the adverse health impacts resulting from the pollutants at issue may be sufficient.

The SCAQMD has further stated that from a scientific standpoint, it takes a large amount of additional precursor emissions to cause a modeled increase in ambient ozone levels over an entire region. For example, the SCAQMD's 2012 AQMP showed that reducing NO_X by 432 tons per day and reducing ROG by 187 tons per day would only reduce ozone levels at the SCAQMD's monitor site with the highest levels by only 9 parts per billion (SCAQMD 2013). SCAQMD staff does not currently

know of a way to accurately quantify ozone- related health impacts caused by NO_X or ROG precursor emissions from relatively small projects.

SCAQMD acknowledged that it may be feasible to analyze air quality related health impacts for projects on a regional scale with very high emissions of NO_X and ROGs, where impacts are regional. The example SCAQMD provided was for proposed Rule 1315, which authorized various newly-permitted sources to use offsets from the "internal bank" of emission reductions. The CEQA analysis accounted for essentially all of the increases in emissions due to new or modified sources in the District between 2010 and 2030, or approximately 6,620 pounds per day of NO_X and 89,947 pounds per day of ROG, to expected health outcomes from ozone and particulate matter (e.g., 20 premature deaths per year and 89,947 school absences in the year 2030 due to ozone).

The SCAQMD stated, its staff does not currently know of a way to accurately quantify ozone- related health impacts caused by ozone from relatively small projects, then a general description of the adverse health impacts resulting from the pollutants at issue, described within this report, is all that can be provided at this time. Please see the above description of general adverse health impacts resulting from ozone.

The SJVAPCD amicus brief addresses whether it is scientifically feasible to correlate an individual project's air quality emissions to specific health impacts. Human health impacts associated with criteria pollutants are analyzed and taken into consideration when the USEPA sets the NAAQS for each criteria pollutant (42 U.S.C. Section 7409(b)(1)). The health impact of a particular criteria pollutant is analyzed on a regional, not a facility level, based on how close the area is to complying with (attaining) the NAAQS. As discussed by the SJVAPCD, it is not feasible to conduct a criteria air pollutant analysis detailing health impacts, as currently available computer modeling tools are not equipped for this task.

In requiring a health risk type analysis for criteria air pollutants, it is important to understand how the relevant criteria pollutants (ozone and particulate matter) are formed, dispersed and regulated. Ground level ozone (smog) is not directly emitted into the air but is instead formed when precursor pollutants such as NO_X and ROG are emitted into the atmosphere and undergo complex chemical reactions in the process of sunlight. Once formed, ozone can be transported long distances by wind. Because of the complexity of ozone formation, a specific tonnage amount of NO_X or ROGs emitted in a particular area does not equate to a particular concentration of ozone in that area. Even rural areas that have relatively low tonnages of emissions of NO_X or ROG can have high levels of ozone concentrations simply due to wind transport. Conversely, areas that have substantially more NO_X and ROG emissions could experience lower concentrations of ozone simply because sea breezes disperse the emissions (SJVAPCD 2007).

The disconnect between the tonnage of precursor pollutants and the concentration of ozone formed is important because it is not necessarily the tonnage of precursor pollutants that causes human health effects; rather, it is the concentration of resulting ozone that causes these effects. The NAAQS, which are statutorily required to be set by USEPA at levels that are requisite to protect the public health, are established as concentrations of ozone and not as tonnages of their precursor pollutants. Because the NAAQS are focused on achieving a particular concentration region-wide, the SJVAPCD's tools and plans for attaining the NAAQS are regional in nature.

The computer models used to simulate and predict an attainment date for ozone are based on regional inventories of precursor pollutants and meteorology within the air basin. At a very basic level, the models simulate future ozone levels based on predicted changes in precursor emissions basin wide. The computer models are not designed to determine whether the emissions generated

by an individual development project will affect the date that the air basin attains the NAAQS. Instead, the models help inform regional planning strategies based on the extent all of the emission-generating sources within the air basin must be controlled in order to reach attainment.

In the case of the Campus Master Plan, operational emissions exceed the SCAQMD operational significance thresholds for NO_X and ROG. However, this does not mean that one can feasibly determine the concentration of ozone that would be created at or near a project site on a particular day or month of the year, or the specific human health impacts that may occur. Meteorology, the presence of sunlight, and other complex chemical factors all combine to determine the ultimate concentrations and locations of ozone. This is especially true for the Campus Mater Plan, where most of the criteria pollutant emissions derive not from a single "point source," but from mobile sources (cars and trucks) driving to, from, and around the campus, or from consumer product and architectural coating use that can occur in many individual areas of the campus.

In addition, it would be infeasible to model the impact on NAAQS attainment that these emissions from the Campus Master Plan may have. As discussed above, the currently available tools are equipped to model the impact of all emission sources in the air basin on attainment. According to the SCAQMD's 2016 AQMP, basin wide emissions in 2012 of ROG was 162.4 tons per day and 293.1 tons per day of NO_X emissions (SCAQMD 2017). Running the photochemical grid model used for predicting ozone attainment with the emissions solely from a project (which equates to less than one tenth of one percent for both ROG and NO_X) is not likely to yield valid information given the relatively small scale involved.

Consistent with the California Supreme Court's Friant Ranch decision, the above information provides additional details regarding the potential health effects from the project's significant and unavoidable criteria pollutant emissions. It also adequately explains why it is not scientifically feasible at the time of drafting of this report to substantively connect this individual project's air quality impacts to likely health consequences so that the public may make informed decisions regarding the costs and benefits of the Campus Master Plan.

Construction

Table 4.2-5 summarizes the estimated maximum daily emissions (lbs) of pollutants associated with buildout of the Campus Master Plan.

Table 4.2-5 Project Construction Emissions

	Maximum Emissions (lbs/day)					
	ROG	NO_x	CO	SO_2	PM_{10}	$PM_{2.5}$
Phase 1 (2024 to 2029)						
Construction Year 2024	1	4	24	<1	8	5
Construction Year 2025	2	29	46	<1	9	5
Construction Year 2026	9	33	73	<1	30	8
Construction Year 2027	8	32	70	<1	30	8
Construction Year 2028	8	32	67	<1	30	8
Construction Year 2029	58	31	65	<1	30	8
Phase 2 (2030 to 2034)						
Construction Year 2030	2	46	58	<1	12	5
Construction Year 2031	2	45	58	<1	19	6
Construction Year 2032	2	17	31	<1	9	2
Construction Year 2033	2	16	30	<1	9	2
Construction Year 2034	30	16	30	<1	9	2
Phase 3 (2035 to 2039)						
Construction Year 2035	2	33	52	<1	10	5
Construction Year 2036	2	33	52	<1	16	5
Construction Year 2037	2	16	29	<1	9	2
Construction Year 2038	2	16	29	<1	9	2
Construction Year 2039	29	16	29	<1	9	2
Maximum Emissions	58	46	73	<1	30	8
SCAQMD Regional Thresholds	75	100	550	150	150	55
Threshold Exceeded?	**No**	**No**	**No**	**No**	**No**	**No**
Maximum On-site Emissions	N/A	3	33	N/A	8	5
SCAQMD Localized Significance Thresholds (LSTs)	N/A	221	1,311	N/A	11	6
Threshold Exceeded?	**N/A**	**No**	**No**	**N/A**	**No**	**No**

Notes: See Appendix C for modeling results. Some numbers may not add up precisely due to rounding considerations. Maximum on-site emissions are the highest emissions that would occur on the project site from on-site sources, such as heavy construction equipment and architectural coatings, and excludes off-site emissions from sources such as construction worker vehicle trips and haul truck trips.

As shown in Table 4.2-5, ROG, NO_X, CO, SO_2, PM_{10}, and $PM_{2.5}$ emissions would not exceed SCAQMD regional thresholds or LSTs. The year with the maximum daily emissions for CO, SO_2, PM_{10}, and $PM_{2.5}$ is under Phase 1 in 2026; the maximum daily emissions for ROG is under Phase 1 in 2029; and the year with the maximum daily emissions for NO_X is under Phase 2 in 2030. Phase 1 and Phase 2 have a construction intensity of approximately 367,000 sf and 300,000 sf per year, respectively. Therefore, it can be stated that if the Campus Master Plan's simultaneous construction does not exceed 300,000 gross square feet per year, the Campus Master Plan would not exceed SCAQMD thresholds. Construction activities associated with the Campus Master Planwould not result in a cumulatively considerable net increase of a criteria pollutant, and impacts would be less than significant.

Operational

Table 4.2-6 summarizes the operational emissions by emission source (area, energy, and mobile) from the Campus Master Plan. As shown below, the emissions generated by operation of the proposed project would not exceed SCAQMD regional thresholds for criteria pollutants for CO, SO_2, PM_{10}, and $PM_{2.5}$. However, operational emissions would exceed the SCAQMD regional thresholds for ROG and NO_X. The majority of ROG emissions are associated with area emissions from consumer product use. The majority of NO_X emissions are from vehicle trips associated with the project. Therefore, the project would contribute substantially to an existing or projected air quality violation and would result in a cumulatively considerable net increase of criteria pollutants. Impacts would be potentially significant.

Table 4.2-6 Project Operational Emissions

	Maximum Daily Emissions (lbs/day)					
Emission Source	**ROG**	**NO_X**	**CO**	**SO_2**	**PM_{10}**	**$PM_{2.5}$**
Area	82	3	227	<1	1	1
Energy	2	16	11	<1	1	1
Mobile	9	41	112	1	72	20
Project Emissions	93	60	350	1	74	22
SCAQMD Regional Thresholds	55	55	550	150	150	55
Threshold Exceeded?	**Yes**	**Yes**	**No**	**No**	**No**	**No**

Notes: See Appendix C for modeling results. Some numbers may not add up precisely due to rounding considerations.

Mitigation Measures

Reactive Organic Gases (ROG)

The largest contribution to exceeding the SCAQMD thresholds for ROG emissions from project operation is from consumer product use. The following mitigation measure would be implemented to reduce this impact:

AQ-1 GREEN CLEANING PRODUCTION EDUCATION PROGRAM

CSUF shall develop a Green Cleaning Product education program to be made available at housing offices, educational areas, and/or on websites. The education program is intended for students and institutional consumers and consists of:

(1) Provision of educational materials in housing offices, educational areas, and/or on websites, about low ROG/VOC consumer products for planned housing and academic uses,

(2) Educational materials addressing the use of detergents; cleaning compounds; polishes; floor finishes; cosmetics; personal care products; home, lawn and garden products; disinfectants; sanitizers; aerosol paints; automotive specialty products; low ROG/VOC paints and architectural coatings; and low emission landscape equipment.

(3) Educational materials on the importance of recycling and purchasing recycled material.

Nitrous Oxides (NO_X)

The Campus Master Plan includes a TDM Plan, that would include measures to reduce vehicle trips. This would have the effect of reducing operational NO_X emissions. As NO_X emissions would exceed the SCAQMD threshold of 55 lbs/day by 5 lbs/day, a reasonable reduction in mobile trips through the TDM Plan would likely have the effect of reducing emissions below thresholds. However, at this stage of planning, specifics on the TDM Plan that would be quantifiable in the modeling were not available. In addition, the operational air quality analysis assumes a worst-case scenario in estimating vehicular emissions associated with the Campus Master Plan as it assumes that all project vehicular trips are new trips to the region that would result in new additional mobile emissions. However, it is important to note that it is highly unlikely that those vehicular trips would be entirely additive to the traffic in the region. Many of the students and faculty that are a part of the campus growth live in the SCAQMD and undertake vehicle trips that already contribute to the NO_X emissions of the area. In addition, the construction of new student and faculty housing on campus would allow for more students and faculty to live on campus instead of commuting, and the Campus Master Plan for some persons would thereby have a positive effect on reducing their vehicle miles traveled (VMT) and therefore a reduction in their NO_X emissions.

The campus is well served by public transportation systems, including buses, providing alternative transportation options for students, employees, and visitors going to and from the campus. As discussed in Section 4.11, *Transportatio*n, the existing CSUF campus produces a lower VMT per service population (18.72 VMT) than the City of Fullerton (22.24 VMT). This is likely due to the reduction in trip and trip lengths associated with students and faculty who live on campus and the CSUF community's use of available transit services used to access the campus. However, we cannot currently assume that additional transit use associated with the project would significantly reduce operational NOx emissions. Therefore, at this stage of planning, mitigation measures are not available that would feasibly reduce impacts from operational NO_X emissions to a less than significant level.

Significance After Mitigation

Implementation of Mitigation Measure AQ-1 would provide educational information to students and staff of the campus to decrease their use of consumer products to benefit the air quality of the basin. The amount of reductions created by the educational material is not quantifiable at this stage of planning, as the reductions would ultimately depend on future individual consumer behavior.

Therefore, it is conservatively assumed that the project would still result in operational ROG emissions that exceed SCAQMD regional thresholds. In addition, as described above, at this stage of planning, project design features and mitigation are not available that would feasibly reduce impacts from operational NO_X mobile emissions to a less than significant level. Therefore, impacts from operational emissions would be significant and unavoidable.

Threshold 3:	Would the project expose sensitive receptors to substantial pollutant concentrations?

Impact AQ-1 THE PROJECT WOULD NOT EXPOSE SENSITIVE RECEPTORS TO SUBSTANTIAL POLLUTANT CONCENTRATIONS FROM CO HOTSPOTS OR TACS. IN ADDITION, THE PROJECT WOULD NOT SITE NEW SENSITIVE LAND USES NEAR SUBSTANTIAL POLLUTANT GENERATING LAND USES. IMPACTS WOULD BE LESS THAN SIGNIFICANT. NO MITIGATION MEASURES ARE REQUIRED.

Carbon Monoxide Hotspots

A CO hotspot is a localized concentration of CO that is above a CO ambient air quality standard. Localized CO hotspots can occur at intersections with heavy peak hour traffic. Specifically, hotspots can be created at intersections where traffic levels are sufficiently high such that the local CO concentration exceeds the federal one-hour standard of 35.0 ppm or the federal and State eight-hour standard of 9.0 ppm (CARB 2016a).

A detailed CO analysis was conducted during the preparation of SCAQMD's 2003 AQMP. The locations selected for microscale modeling in the 2003 AQMP included high average daily traffic (ADT) intersections in the SCAB, those which would be expected to experience the highest CO concentrations. The highest CO concentration observed was at the intersection of Wilshire Boulevard and Veteran Avenue on the west side of Los Angeles near Interstate 405 (I-405). The concentration of CO at this intersection was 4.6 ppm, which is well below the state and federal standards. The Wilshire Boulevard/Veteran Avenue intersection has an ADT of approximately 100,000 vehicles per day.

The highest ADT for nearby roadways to the proposed project would occur on Yorba Linda Boulevard, which under the existing plus project scenario would generate 41,890 ADT (Fehr & Peers 2019), which is less than the 100,000-vehicle count on the Wilshire Boulevard/Veteran Avenue intersection that was already well below the standards. Furthermore, due to stricter vehicle emissions standards in newer cars and new technology that increases fuel economy, CO emission factors under future land use conditions would be lower than those under existing conditions. Thus, even though there would be more vehicle trips under the proposed project than under existing conditions, project-generated local mobile-source CO emissions would not result in or substantially contribute to concentrations that exceed the one-hour or eight-hour CO standard. Therefore, impacts would be less than significant.

Toxic Air Contaminants

Construction-related activities would result in short-term, project-generated emissions of DPM exhaust emissions from off-road, heavy-duty diesel equipment for site preparation (e.g., excavation, grading, and clearing), building construction, and other miscellaneous activities. DPM was identified as a TAC by CARB in 1998. The potential cancer risk from the inhalation of DPM, as discussed below, outweighs the potential non-cancer health impacts (CARB 2017b).

Generation of DPM from construction typically occurs in a single area for a short period. Construction of the Campus Master Plan projects would occur over nearly two decades but use of diesel-powered construction equipment in any one area would likely occur for no more than a few years and would cease when construction is completed in that area. The dose to which the receptors are exposed is the primary factor used to determine health risk. Dose is a function of the concentration of a substance or substances in the environment and the extent of exposure that person has with the substance. Dose is positively correlated with time, meaning that a longer exposure period would result in a higher exposure level for the Maximally Exposed Individual. The risks estimated for a Maximally Exposed Individual are higher if a fixed exposure occurs over a longer period of time. According to the Office of Environmental Health Hazard Assessment (OEHHA), health risk assessments, which determine the exposure of sensitive receptors to toxic emissions, should be based on a 70-year exposure period; however, such assessments should be limited to the period/duration of activities associated with the project.

Sensitive receptors to DPM would be considered the segments of the population most susceptible to poor air quality (children, the elderly, or those with pre-existing serious health problems; CARB 2005). This includes land uses where sensitive receptors such as children are more likely to spend time outside, such as a daycare. Most of the campus would be occupied by students or faculty who would not be considered the most susceptible to DPM. The campus does have an on-site daycare facility, the Children's Center, which is located in the northwestern portion of the project site. Sensitive receptors at the daycare are considered the Maximally Exposed Individual for this analysis. The closest construction to the Children's Center would occur approximately 150 feet to the north across Children's Way for one of the Campus Master Plan's proposed parking garages. Sensitive receptors such as children or the elderly may also live in the residences located in the area, and children would be present at the La Vista and La Sierra High School east of the campus. However, these sensitive receptors would be located at a further distance than the Children's Center; therefore, analyzing DPM risks at the Children's Center would represent the most conservative scenario.

To conduct a screening-level analysis for cancer and non-cancer health impacts to the nearest sensitive receptors to project construction, the $PM_{2.5}$ and PM_{10} emissions for the phase with the highest emissions (Phase 1) were summed from the CalEEMod outputs (the inputs of which are discussed in further detail under Section 4.2.2). These emissions were then inputted into AERSCREEN, USEPA's screening model for air quality dispersion. The annual concentration from AERSCREEN was then input into cancer risk and non-cancer risk formulas based upon the OEHHA's Air Toxics Hot Spots Program Guidance Manual for Preparation of Health Risk Assessments (OEHHA 2015).

Under the analyzed scenario, the project would result in a cancer risk of 3.6 in 10 million at the closest sensitive receptor, the Children's Center. The project's Hazard Index would be 0.2 at the Children's Center. Given the aforementioned, DPM generated by project construction is not expected to create conditions where the Maximum Incremental Cancer Risk probability is greater than 10 in 1 million for the Maximally Exposed Individual or to generate ground-level concentrations of noncarcinogenic TACs that exceed a Hazard Index greater than 1 for the Maximally Exposed Individual. This impact would be less than significant.

Project Siting

CARB documentation from 2005 gave a recommendation to avoid siting new residences within 500 feet of a freeway, urban roads with 100,000 vehicles/day, or rural roads with

50,000 vehicles/day (CARB 2005). The project could place sensitive receptors living in housing within approximately 300 feet of the centerline of SR 57. In 2017, SR 57 had traffic volumes of up to 278,400 ADT on the freeway segments next to campus (Caltrans 2019). According to the project TIS, adjacent roadways with project traffic in either the existing or future (2040) scenarios would have traffic volumes as high as 41,890 (on Yorba Linda Boulevard), which would not exceed the recommended limit of 100,000 vehicles/day for urban roads.

CARB released a technical advisory in 2017 on reducing air pollution near high-volume roadways to clarify the 500-foot recommendation from 2005 due to the increased focus on and benefits from infill development, which can often occur within 500 feet of a major roadway (CARB 2017a). As described in the technical advisory, California has implemented various measures to improve air quality and reduce exposure to traffic emissions. These include the Diesel Risk Reduction Plan, which aims to reduce particulate matter emissions from diesel vehicles. The continued electrification of California's vehicle fleet would also reduce $PM_{2.5}$ levels, and ongoing efforts to reduce emissions from cars and trucks and to move vehicles towards "zero emission" alternatives will continue to drive down traffic pollution (CARB 2017a).

As shown in Table 4.2-2, the nearest monitoring stations to the project have shown the area to have relatively clean air, as over the past three years of monitoring data the worst year there was only 11 violations (in 2017). In addition, the project would implement the residential indoor air quality requirements in the 2019 Title 24 Building Energy Efficiency Standards which require Minimum Efficiency Reporting Value (MERV) 13 (or equivalent) filters for heating/cooling systems and ventilation systems in residences (Section 150.0[m]), or would implement future standards that would be anticipated to be more stringent than 2019 standards. Given the aforementioned, the siting of the residences near SR 57 would not be anticipated to expose sensitive receptors to substantial pollutant concentrations, and impacts would be less than significant.

Mitigation Measures

Mitigation measures are not required.

Significance After Mitigation

Impacts would be less than significant without mitigation.

Threshold 4:	Would the project result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?

Impact AQ-2 IMPLEMENTATION OF THE PROJECT WOULD NOT CREATE OBJECTIONABLE ODORS THAT COULD AFFECT A SUBSTANTIAL NUMBER OF PEOPLE. IMPACTS WOULD BE LESS THAN SIGNIFICANT. NO MITIGATION MEASURES ARE REQUIRED.

For construction activities, odors would be short-term in nature and are subject to SCAQMD Rule 402 *Nuisance* (SCAQMD 1976). Construction activities would be temporary and transitory and associated odors would cease upon construction completion. Accordingly, the proposed project would not create objectionable odors affecting a substantial number of people during construction, and short-term impacts would be less than significant.

Common sources of operational odor complaints include sewage treatment plants, landfills, recycling facilities, and agricultural uses. The proposed project would not include any of these uses. In addition, solid waste generated by the proposed on-site uses would be collected by a contracted

waste hauler, ensuring that any odors resulting from on-site waste would be managed and collected in a manner to prevent the proliferation of odors. Operational odor impacts would be less than significant.

Mitigation Measures

Mitigation measures are not required.

Significance After Mitigation

Impacts would be less than significant without mitigation.

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4.3 Cultural and Historical Resources

This section provides an overview of the cultural/tribal cultural and historical resources in the project vicinity and, in accordance with CEQA, evaluates direct and indirect impacts associated with development of the proposed project. This section includes the following: (1) identification and evaluation of the significance of any cultural resources falling within the project area and area of potential impacts; (2) determination if implementation of the proposed project would have any adverse impacts on those resources; and (3) identification of mitigation measures for any significant impacts (pursuant to CEQA Guidelines Section 15126.2) on cultural/tribal and historical resources.

The analysis in this section is based in part on the Archaeological Resources Technical Report and the Historic Resources Survey Report (HRSR), prepared for this project by Rincon Consultants, Inc. (Rincon). Both reports are included in Appendix E and Appendix F of this document, respectively.

Project impacts on tribal cultural resources are based, in part, on the results of consultation completed with local California Native Americans, conducted pursuant to Assembly Bill (AB) 52. Consultation records are included in Appendix G of this document.

4.3.1 Environmental Setting

a. Cultural Setting

Prehistory

The project site lies in what generally is described as California's Southern Bight (Byrd and Raab 2007). This region extends from the Mexican border to Santa Monica and includes Orange and San Diego counties, western Riverside County, and the Southern Channel Islands. The prehistoric cultural chronology for the Southern Bight is presented in the Archaeological Resources Technical Report (Appendix E) following Byrd and Raab (2007), who have divided the chronology into the Early [9600- 5600 Before the Common Era (BCE)], Middle (5600-1650 BCE), and Late (1650 BCE- 1769 CE) Holocene.

Ethnography and Tribal Resource Setting

The project site is located within the traditional territory of the Native American group known as the Gabrieliño. The name Gabrieliño was applied by the Spanish to those natives that were attached to Mission San Gabriel (Bean and Smith 1978:538). Today, most contemporary Gabrieliño prefer to identify themselves as Tongva, a term that was used in the Archaeological Resources Technical Report (Appendix E) and will be used throughout the remainder of this section.

Tongva territory included the Los Angeles basin and southern Channel Islands, as well as the coast from Aliso Creek in the south to Topanga Creek in the north. Their territory encompassed several biotic zones, including Coastal Marsh, Coastal Strand, Prairie, Chaparral, Oak Woodland, and Pine Forest (Bean and Smith 1978).

Prior to European contact, deceased Tongva were either buried or cremated, with burial more common on the Channel Islands and the adjacent mainland coast and cremation on the remainder of the coast and in the interior (McCawley 1996:157). After pressure from Spanish missionaries, cremation essentially ceased during the post-contact period (McCawley 1996:157).

Review of previously recorded resources and results of a pedestrian field survey by an archaeologist did not reveal findings of significant tribal cultural resources present on the project site (Appendix E). There are no known tribal cultural resources present on the project site; notification of Native American tribes of the Gabrieleño/Tongva Nation in the vicinity of the project site is required for this project under Assembly Bill 52 (AB 52).

b. Historic Setting

The post-Contact history of California is generally divided into three periods: the Spanish period (1769–1822), the Mexican period (1822–1848), and the American period (1848–present). These historical periods are described in the Archaeological Resources Technical Report (Appendix E).

The remainder of this section provides the historic setting and context information for CSUF, divided chronologically and according to significant themes. This contextual information was compiled for a historic resources survey of the CSUF campus; the survey included permanent, built environment properties 45 years of age and older (the full Historic Evaluation Survey Report, along with all figures, historic aerial photographs, site plans and maps, follows in Appendix F). Therefore, the focus of this historic setting section is the eras and themes represented in the extant environment of CSUF—namely, pre-CSUF during the City of Fullerton's citrus age, and the postwar boom and institutional expansion of Fullerton and Orange County, given the campus's 1957 establishment and subsequent expansion in the 1960s and 1970s (and beyond). This section also considers the larger themes that affected the region, such as the institutional development of the CSU system.

Fullerton's Founding Years and the Citrus Age

The City of Fullerton is located in the northern region of Orange County in Southern California. The land that currently encompasses Fullerton was part of the Spanish Mission San Gabriel Arcángel in the 18th century. With the liberation of Mexico from Spain in 1821 and the dissolution of the missions in 1833, Mexico established agency over the newly secularized land in Alta California. One way in which the new country rewarded loyalty and began to populate these northern stretches was with land grants. In 1837, the Mexican government bestowed one such grant of 35,970 acres of land on soldier Juan Pacífico Ontiveros. This area encompasses much of present-day Anaheim, Placentia, and Fullerton. By the mid-19th century, Ontiveros sold much of the land, which was parceled out to new Anglo settlers moving westward (Brunet 1990). Numerous settlers purchased land in the area, although most development was scattered until the 1880s.

Prior to the establishment of Fullerton proper, a number of families made the trek to the area to establish farms. The town only started to emerge, however, following the arrival of brothers George and Edward Amerige, grain merchants from Boston. In 1886, the Amerige brothers visited the region for a quail hunting excursion when they learned that the Santa Fe Railway was planning its expansion into the area. The enterprising pair purchased over 400 acres of land with the intent of establishing a town near the railroad.

In 1887, the Amerige brothers negotiated with George H. Fuller, president of the Pacific Land and Improvement Company, to include the townsite in the railway's survey in exchange for free right-of-way and half interest in the land. The town of Fullerton was officially founded on July 5, 1887, when Edward Amerige plotted the town in the middle of a mustard field, naming the new town after George H. Fuller (Maag 1939). In 1904, Fullerton was incorporated as a city. It was recorded as occupying 18 miles with a population of 3,000 people.

Agricultural development in the area occurred during two main development eras: a brief but noteworthy experiment in a vegetarian colony (known as the "Placentia District") on and near the present site of CSUF, and the subsequent, better known era of citrus cultivation. The first development occurred in the 1870s with the establishment of Thales Ranch, or the Placentia Colony, on ten acres that would later be purchased for CSUF. The second wave of agricultural development occurred in the 1880s with the introduction of citrus plants to the area. Many of these orchard fields were also purchased for the development of CSUF. History specific to the Placentia District and citrus cultivation in Fullerton is included in the HRSR (Appendix F).

Citrus production continued to be an important industry in Fullerton into the 1930s, following a general decline during the Great Depression. During World War II, many defense-related industries arrived in the county (and the region). Following the war, the agricultural character of Fullerton and Orange County slowly began to shift, with acres of groves giving way to new residential tracts and accompanying amenities. The citrus groves on the site of present-day CSUF were cleared in the 1960s and 1970s.

Postwar Boom in Orange County and Fullerton

World War II ushered in a new era of expansion in California. Orange County was no exception in this respect, as acres of citrus groves gave way to new housing tracts, which accommodated a rapid influx of new residents (Caltrans 2011). In the postwar period, the educational and institutional expansion mirrored and was driven by this rapid population growth, in Orange County and throughout California.

In 1944, U.S. President Franklin D. Roosevelt established the Servicemen's Readjustment Act, commonly known as the G.I. Bill of Rights. As a result, thousands of veterans enrolled in higher education programs in California. Four hundred universities and colleges in California were approved for the program, with over 50 percent of veterans attending 50 of the approved schools. Between 1946 and 1947, over 850 veterans attended Fullerton College alone (Fullerton College Library 2012). This influx also affected the California State College System, and additional campuses were established in Sacramento (1947) and Long Beach (1949).

Despite this rapid expansion, the need for colleges in California continued unabated into the 1950s. Within four years, seven additional California State College campuses were established in the State: Fullerton (1957), Hayward (1957), Stanislaus (1957), San Fernando Valley (1958), Sonoma (1960), San Bernardino (1960), and Dominguez Hills (1960). In 1960, the Donahoe Higher Education Act united the individual California State Colleges. By 1972, the California State University and Colleges system was created, and schools changed their names to include "California State University," commonly followed by their location. A decade later, the system was formalized into the California State University program that is still in place across the state (CSU 2019).

Historic Development of the Project Area: The Founding of CSUF

Well into the postwar period, Orange County was still home to numerous acres of the citrus groves that had given the County its name. At the same time, Southern California's population continued to grow exponentially, and the agricultural character of Orange County and Fullerton began to shift and give way to development and residential settlement.

Originally known as Orange County State College, the university was founded in 1957 on a site still home to a number of citrus farms and agricultural fields. Because the acquisition of the proposed 252-acre campus was costly, the land was purchased in three phases. In November 1958, legislature

approved purchase of the first 160 acres of land for the school (Napa Valley Register 1958). An additional 77 acres were approved the following year in July 1959 (Los Angeles Times 1959). A final land acquisition of approximately 15 acres was completed in 1960 (Los Angeles Times 1960b).

With the campus' land purchased, the school anticipated an immediate demand for classes and sought to establish temporary quarters for students and teachers while permanent buildings were under construction. From 1959 until 1961, classes were held in rented quarters at the Sunny Hills High School. In 1960, a series of temporary, one-story buildings were added along the western portion of the campus; the buildings were constructed by Allison Honor Company of Santa Ana (Los Angeles Times 1960a).

The campus core was designed and constructed primarily through four major building campaigns and master planning efforts, in 1960, 1962, 1967, and 1974. Although the campus continued to expand through the years, including a gradual northward expansion as former citrus groves gave way to buildings, the focal point of the campus remained (and remains) the 1960s-1970s campus core; there is not a larger historic district across the campus as a whole. This development pattern reflects the rapid postwar expansion and construction boom in Fullerton and Orange County in general. In addition, with the heart of the campus designed and constructed within a short period of time, during the heyday of New Formalism, Brutalism, and Late Modernism, in particular in institutional design, the campus core exhibits cohesive unified architectural character and style.

Phase 1: 1960 Master Plan, 1960-1969

Development of the campus began in the southern region of the CSUF site, accessible via Nutwood Avenue. Milton C. Blanchard and Dean Stuart F. McComb developed the college's building program, which by 1961 included an $80 million master plan (Los Angeles Times 1961a, 1961b). The plan covered a 20-year period from 1960 to 1980 and sought to make the fledgling school one of the state's top educational institutions. Thirty-five baccalaureate and 24 postgraduate degrees were planned for a student body of 20,000 and a faculty of 1,000 full-time instructors.

The 1960 Master Plan called for the construction of six buildings: Letters and Sciences (1963), Music-Speech-Drama (1965), Physical Education and Gymnasium (1965), Library (1966), Cafeteria-Commons (1967), and Humanities and Social Sciences (1969). Created as part of the first major building campaign at CSUF, the buildings display a unified site plan, with each component arranged around a central quad and commons. Unified by axial circulation corridors and landscaping, the early campus core was completed between 1963 and 1969.

Phase 2: 1962 Master Plan, 1969-1974

By 1968, the college had reached over half of their expected enrollment, with 10,750 students enrolled for the fall semester. A year later, that number increased to 12,793 students occupying the "sprawling high-rise-style campus" (Los Angeles Times 1969b). At this point, CSUF was able to implement additional components of the 1960 into the 1962 Master Plan. Although an administration building and art building were identified in the 1960 Master Plan, their designs and locations were updated in the 1962 Master Plan. Buildings constructed during this second phase include the Visual Arts Building (1969), Engineering Building (1971), Administration Building (1971) and Health Center (1974).

As visible in a 1972 aerial, the unified, axial site plan of the campus was already intact by the early 1970s, with administrative and academic buildings located in the south of the campus and athletic fields in the northern extent of the campus. The 1972 aerial illustrates a cohesive site plan,

accompanying landscape design, and circulation corridors throughout campus. Much of the peripheral land to this central core was used for parking lots; athletic fields were completed in the northern portion of the campus.

The second phase of development mirrored and expanded the original historic core. Overall, buildings completed in the early 1970s were organized around the existing core and shared the aesthetic principals and design characteristics of the first six buildings.

Politics and Social Change

Toward the conclusion of CSUF's first decade, the era of civil rights arrived on the campus. Throughout the 1960s and 1970s, American universities were often the site of student protests. According to English professor Cyril (Cy) Epstein, who wrote a book on the 1970 protest, CSUF was initially not among these campuses, as the school was "considered by most to be a more 'responsible' campus, if not exemplary… it was certainly located in the heart of Reagan territory" (Epstein 1971).

The initial impetus for the 1970 protest was a speech given by then-Governor Ronald Reagan at the campus in February. During the address, Reagan was heckled by students who, unbeknownst to them, were being recorded by the Fullerton Police Department. Within a week of the event, two of the protestors, Bruce Church and David MacKowiak, were arrested by the police. Alarmed by this, many students objected, asserting that the two students were being penalized for exercising their right to free speech. The two students were also accused of misconduct by CSUF, further raising tensions (De Graaf 1988). The student body's initial dissent was limited to protests in McCarthy Hall and the President's office (Mudrick, Rickey, Thomas 2015).

Political unrest exploded at CSUF in response to Nixon's declaration of the invasion of Cambodia and the Kent State shootings. Reacting to these events, Reagan shut down all University of California and state colleges for four days. In protest, students occupied the Performing Arts Building. According to historian and CSUF professor Larry de Graaf, "a conservative governor had unwittingly succeeded in transforming CSUF from the pursuits of learning into a center for antiwar activities in Orange County" (De Graaf 1988).

The repercussions of the protests were multifold: CSUF established itself as a location for political and social activism. By the end of spring semester 1970, as students returned home for the summer, the school slowly calmed from the wave of riots.

Phase 3: 1974 Master Plan, 1974-1975

During the 1970s, one of the principal development projects was creation of an arboretum, as shown on the 1974 Master Plan. The timing of this Master Plan coincided with Fullerton's growth as a college city, partially because of CSUF. In 1973, the *Los Angeles Times* estimated that 40,000 students attended college in Fullerton; and school officials asserted that "the area surrounding Cal State is rapidly becoming one of the foremost educational centers in Southern California" (Moore 1973).

Prior to the development of the Arboretum in the 1970s, the northern expanse of CSUF was a largely unoccupied field scattered with citrus trees. After learning that the area was slated to become another parking lot, staff and students had the idea to transform the space into a botanical garden. This effort on the part of students was successful, and the arboretum was incorporated into the school's master plan.

Post-1975 Expansion

CSUF's northeastern corner was dedicated to the arboretum and completed in 1979. This area is characterized by vegetation and winding paths that bisect the various gardens. By the 1980s and 1990s, as the campus expanded, new buildings were constructed primarily on the periphery of the central quad. Housing was constructed in the 1990s along the eastern border of the campus whereas permanent and portable academic buildings essentially "filled in" the periphery of the campus. Parking lots, and later parking structures in the 2000s, were also relegated to the edges of the campus. In subsequent years, the campus continued to expand and include areas south of Nutwood Street, west of North State College Boulevard, and north of Yorba Linda Boulevard.

CSUF Campus Architects and Design Professionals

Risley, Gould & Van Heuklyn

The firm of Risley, Gould & Van Heuklyn was responsible for the design of the Pollak Library at CSUF. Originally Risley & Gould, the firm was founded by Stanley Gould and Winchton Risley in 1948. Risley, Gould & Van Heuklyn was very active in Southern California and specialized in campus design for primary and secondary schools as well as colleges and universities. Perhaps the most notable comprehensive project that the firm completed was for the University of California, San Diego campus (Architectural Resources Group 2016).

William E. Blurock & Partners

William E. Blurock & Partners, in partnership with Balch, Hutchason & Perkins, was responsible for the design of the Administration Building at CSUF (Los Angeles Times 1969a). The firm was established in 1960 in Newport Beach and was active until 1994.

Blurock specialized in educational institutions and was responsible for the planning and design of buildings on 32 California college campuses. Blurock also completed numerous Orange County civic projects, including the Orange County Performing Arts Center (now known as the Segerstrom Center for the Arts) and the City of Santa Ana Civic Center Mall.

Balch, Hutchason & Perkins

Balch, Hutchason & Perkins, in partnership with William E. Blurock & Partners, was responsible for the design of the Administration Building at CSUF (Los Angeles Times 1969a). Balch, Hutchason & Perkins, consisting of William G. Balch, Willis K. Hutchason, and John L. Perkins, was a Los Angeles firm specializing in school architecture.

Thornton Abell

Thornton Abell was responsible for the design of the Humanities and Social Sciences Building and the Visual Arts Complex at CSUF. Throughout his career, Abell was most widely recognized for his residential commissions (Gebhard and Winter 2003). Abell is known for his low, streamlined forms and use of simple, high-quality materials and received numerous awards for his designs over the years (HistoricPlacesLA N.d).

Marsh, Smith & Powell

Although Marsh, Smith, & Powell did not complete work at CSUF, David D. Smith and Herbert James Powell, two of the architects associated with the firm, participated in the school's Master Plans.

Their early work at this firm, therefore, influenced the designs completed by Smith, Powell & Morgridge and Powell, Morgridge, Richards & Coghlan at CSUF.

Marsh, Smith & Powell was formed in 1928 by Norman F. Marsh, David D. Smith, and Herbert James Powell, and quickly became a key player in the evolution of school buildings from the 1920s through the 1950s. As school design evolved in the 1920s and 1930s, the firm helped define the textbook indoor-outdoor campus that came to characterize Southern Californian schools (Sapphos Environmental, Inc. 2014). The firm played a seminal role in Southern California's shift towards more "functional, child-centered, open-air schools" (Sapphos Environmental, Inc. 2014). Principal commissions included El Camino College (1950), the Life Science Building at UCLA (1952), and San Marino High School (1954) among numerous others (Sapphos Environmental, Inc. 2014). The firm also served as the University Architect at USC, where they hired USC graduates such as Thornton M. Abell to work on the campus.

Smith, Powell & Morgridge

The firm of Smith, Powell & Morgridge was responsible for the 1962 Master Plan at CSUF. The firm was formed in 1955 after the death of Marsh, as a successor firm to Marsh, Smith & Powell. That year, the remaining three partners at the firm rebranded the firm accordingly. The firm held this name from 1955 to 1966. Located out of Los Angeles, the firm of Smith, Powell & Morgridge was heavily active in Fullerton in the postwar years. In 1956, it designed the Fern Drive School in Fullerton, a postwar school that adopted residential forms and details and in 1962, it completed the New Formalist style Fullerton City Hall [Sapphos Environmental, Inc. 2014; Pacific Coast Architecture Database (PCAD) 2018]. During this period, Smith, Powell & Morgridge also expanded to complete municipal jobs, designing the Buena Park City Hall in 1958 and the Child Guidance Center in Pasadena in 1960 (AIA 1970).

Powell, Morgridge, Richards & Coghlan

Powell, Morgridge, Richards & Coghlan designed the 1967 and 1974 Master Plans of CSUF. The firm was formed in 1966 as a successor firm to Smith, Powell & Morgridge by Herbert James Powell, Henry Morgridge, Albert Anton Richards, and Rapier R. Coghlan. That year they designed the library at Chapman College in Orange (Chapman University 1965).

George T. Nowak

George T. Nowak designed Titan Hall in 1974 while it was associated with the Western State University College of Law. Besides designing several movie theaters in Los Angeles County, no additional information regarding Nowak's work was available (Los Angeles Times 1968, 1970).

Landscape Architects

Cornell, Bridgers and Troller/Cornell, Bridgers, Troller and Hazlett/Bridgers, Troller and Hazlett

Cornell, Bridgers and Troller were responsible for some of the early landscape designs of the CSUF center quad as well as the Engineering and Computer Science Building Complex. The latter iteration of the firm as Bridgers, Troller and Hazlett completed the landscape design for the Arboretum.

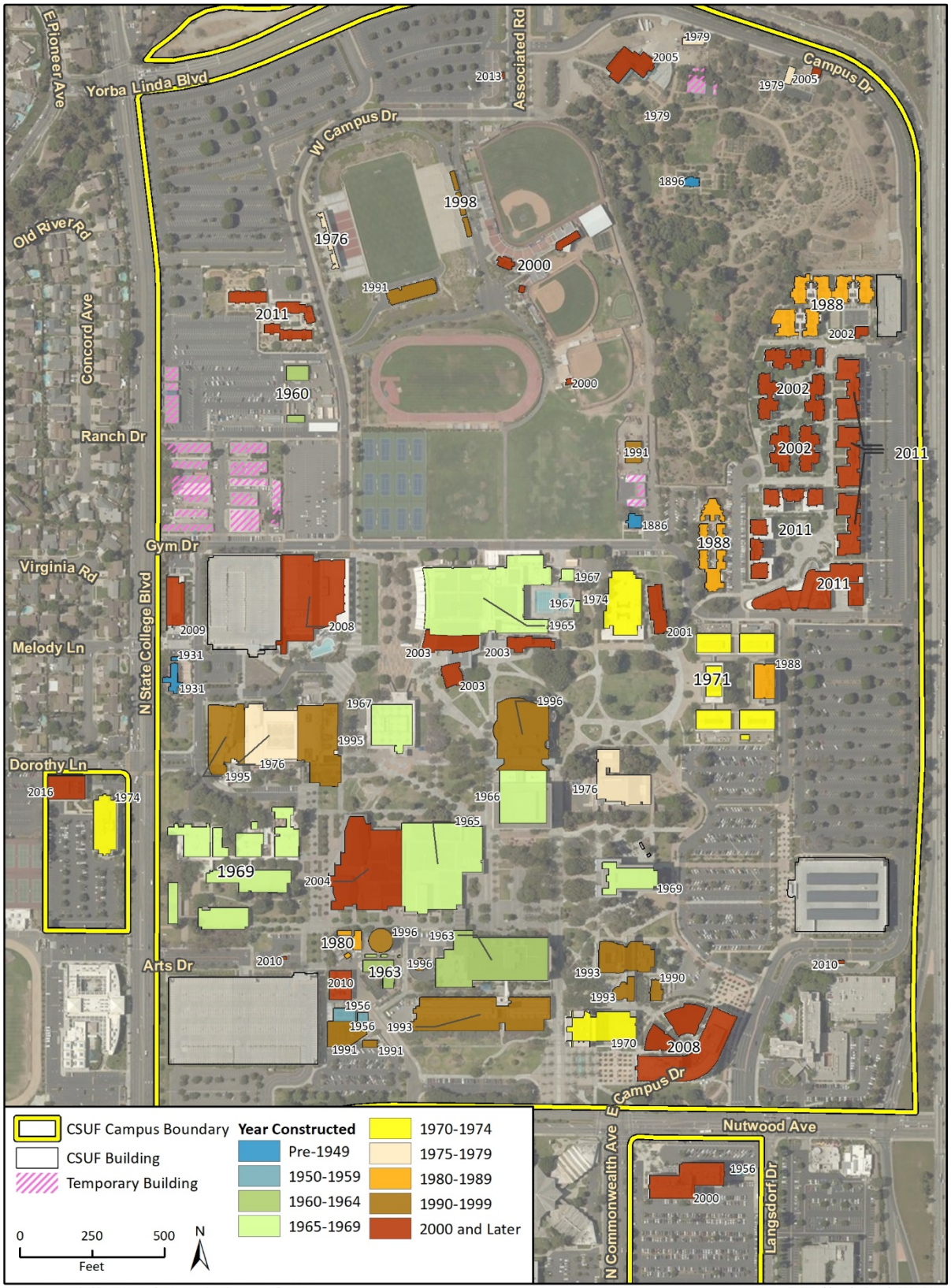
Following the firm's establishment in 1953, they built a prolific practice in landscape design throughout the Southern California region. Comprised of Ralph Cornell, Howard Troller, and Samuel

Bridgers, the firm was located in Los Angeles and completed numerous municipal projects in the city. Notable projects included the City Hall East Mall, the campus for the Department of Water and Power, the Music Center, and the Civic Center Mall (Grand Park). The firm also completed work outside of California including the landscapes of the Ford Motor Company's General Office Building in Dearborn, Michigan.

Myrton Purkiss

Myrton Purkiss was responsible for landscaping surrounding the Heritage House in the Arboretum. Purkiss attended USC and the Chouinard Art Institute in Los Angeles where he studied ceramics. During World War II, Purkiss was drafted into military service where he worked as a cartographer. He returned to California in 1941 and settled in Fullerton. He transitioned careers in the mid-1950s, when he began his practice as a landscape architect (Everson Museum of Art 2018). He opened a firm, Purkiss-Rose Associates, and designed landscapes for public and private spaces (La Riviere 1977).

Figure 4.3-1 CSUF Campus Dates of Construction



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4.3.2 Cultural Resources within the Project Site

Previously Recorded Cultural Resources and Studies

A cultural resource records search and literature review was conducted at the South Central Coastal Information Center (SCCIC) located at CSUF on June 18, 2019 (Appendix H). The search was completed to identify previous cultural resources work and previously recorded cultural resources within a 0.5-mile radius of the project site. The search included a review of the NRHP, CRHR, California Points of Historical Interest list, the California Historical Landmarks list, the Archaeological Determinations of Eligibility list, and the California State Historic Resources Inventory list. The records search also included a review of all available historical USGS 7.5-, 15-, and 30-minute quadrangle maps.

The SCCIC records search identified 24 previous studies within a 0.5-mile search radius of the project site. Of these, six included portions of the project site. Together, these previous studies inventoried approximately 40 percent the current project site. Table 4.3-1 provides a summary of the studies found in the search radius (Appendix H).

Table 4.3-1 Previous Cultural Resources Studies within 0.5-mile of the CSUF Campus

Report Number	Author(s)	Year	Title	Relationship to Project Site
OR-00416	Reissen, Herbert	1979	*The Placentia Grass-Eaters a Burial Analysis and Report on Two Skeletons*	Outside
OR-00554	Cottrell, Marie	1977	*Cultural Resource Survey for 13.7 Acres in the City of Placentia*	Outside
OR-00678	Tadlock, W.L.	1976	*Archaeological Element of an Environment Impact Report for a Portion of California State University Fullerton Campus*	**Within**
OR-00985	Brown, Joan	1989	*Cultural Resources Reconnaissance of the 375 Acre East Coyote Hills Project, Fullerton, California*	Outside
OR-02256	Demcak, Carole	1999	*Cultural Resources Assessments for Orange County Sanitation Districts*	Outside
OR-02280	Duke, Curt	2000	*Cultural Resource Assessment for AT&T Fixed Wireless Services Facility Number OC-420A, Orange County, California*	Outside
OR-02538	Duke, Curt	2002	*Cultural Resource Assessment Cingular Wireless Facility Number SM-195-01*	**Within**
OR-02795	Harper, Caprice	2002	*Cultural Resource Assessment Cingular Wireless Facility Number SC 046-02 Orange County, California*	Outside
OR-02799	Duke, Curt	2002	*Cultural Resource Assessment Cingular Wireless Facility Number SC 046-01 Orange County, California*	Outside

Report Number	Author(s)	Year	Title	Relationship to Project Site
OR-02808	Duke, Curt	2002	*Cultural Resource Assessment AT&T Wireless Services Facility Number 13067A Orange County, California*	Outside
OR-03033	Kyle, Carolyn E.	2004	*Cultural Resource Assessment for AT&T Wireless Facility Number 950-013-305c, 1600 North Acacia Avenue, City of Fullerton, Orange County, California*	Outside
OR-03215	Bonner, Wayne	2005	*Cultural Resources Records Search Results and Site Visit for Cingular Wireless Candidate, 1930 North Placentia Avenue, Fullerton, Orange County, California*	Outside
OR-03393	Wlodarski, Robert	2006	*Record Search and Field Survey for the Proposed Bechtel Corporation Wireless Telecommunications Site Lsancac420 (57 Freeway/Yorba Linda) Located at 1535 Deerpark Drive, Fullerton, Orange County, California 92831*	Outside
OR-03721	Bonner, Wayne	2007	*Cultural Resources Records Search and Site Visit Results for T-Mobile Candidate LA23632C (Crowther Rental), Placentia, Orange County, California*	Outside
OR-03733	Duke, Curt	1999	*Cultural Resources Assessment for Pacific Bell Mobile Services Facility CM-423-01, Orange County, California*	**Within**
OR-03822	Harper, Caprice	2006	*Historic Property Survey Report and Archaeological Survey Report for the State Route 57 Northbound Widening Project 0.3 km South of Orangethorpe Avenue to 0.2 km North of Lambert Road in the Cities of Placentia, Fullerton, and Brea, Orange County, California*	Outside
OR-03887	Fulton, Phil	2013	*Cultural Resource Assessment Class I Inventory, Verizon Wireless Services CSUF Facility, City of Fullerton, Orange County, California*	Outside
OR-04060	Bonner, Wayne	2009	*Cultural Resources Records Search and Site Visit Results for TowerCo II, LLC CA2572 (Saito), 800 North State College Boulevard, Fullerton, Orange County, California*	**Within**
OR-04079	DeGraaf, Larry, Pat Jertberg, Marie Schmidt, et al.	1988	*Placentia Historic Resources Survey*	Outside
OR-04104	Antram, Marie, Shannon Orr, Liliana Vasquez, L. de Graaf, and Pat Jertberg	2002	*Historic Resource Inventory for the City of Placentia: Update 2002*	Outside

Report Number	Author(s)	Year	Title	Relationship to Project Site
OR-04227	McKenna, Jeanette	2012	*Addendum Report: A Cultural Resources Investigation for the College Town at Cal State Fullerton Specific Plan Project Area in the City of Fullerton, Orange County, California*	Outside
OR-04284	Mendoza	2012	*Center for Oral and Public History (COPH), relocation and expansion of the COPH*	**Within**
OR-04342	Brown, Joan C.	1990	*Test Phase of a Portion of the East Coyote Hills Unocal Project, Fullerton, California*	Outside

Source: Rincon 2019 (Appendix H)

The SCCIC records search identified 11 previously recorded cultural resources situated within a 0.5-mile radius of the project site. These resources consist of 10 historic-period buildings and one historic-period tree. Table 4.3-2 provides a summary of the previously recorded cultural resources within the record search area. No archaeological resources have been recorded within the project site or record search area.

Table 4.3-2 Previously Recorded Cultural Resources within 0.5-mile of the CSUF Campus

Primary Number	Resource Type	Description	Recorder(s) and Year(s)	NRHP/CRHR[1] Status	Relationship to Project Site
P-30-157295	Historic Building	The George G. Golleher Alumni House –Mahr House	Woodard 1979		**Within**
P-30-157296	Historic Building	The Titan House – Hetebrink House	Lemon 1983		**Within**
P-30-157297	Historic Building	Dr. George Clark Home – Heritage House	Moag and Woodard 1976; Meighan 1976; Lemon 1983		**Within**
P-30-162288	Historic Tree	First Macadamia Tetraphylla planted in California	State Historical Resources Commission 1982		Outside
P-30-177087	Historic Building	Charles Fuller Ranch	Orr 2002		Outside
P-30-177092	Historic Building	Nenno House	Vasquez 2002		Outside
P-30-177093	Historic Building	Lewis Lemke House	Antram 2002		Outside
P-30-177117	Historic Building	Hope International University	McKenna 2011		Outside
P-30-177118	Historic Building	LDS Student Center	McKenna 2011		Outside

Primary Number	Resource Type	Description	Recorder(s) and Year(s)	NRHP/CRHR[1] Status	Relationship to Project Site
P-30-177119	Historic Building	Commercial Shopping Center	McKenna 2011		Outside
P-30-177446	Historic Building	Pollak Library	Apel 2012		**Within**

[1] National Register of Historic Places (NRHP)/California Register of Historic Resources (CRHR)
Source: Rincon 2019 (Appendix F)

Four buildings were previously recorded on the project site; additional information for each property is included in the HRSR (Appendix F) and summarized below.

The George G. Golleher Alumni House (Mahr House)

Extant in its original location, the 1931 Mahr House was originally owned by members of the Hetebrink family. The Spanish Eclectic style home was designed and built for Lottie Hetebrink by Clinton F. Abbott of Pacific Ready-Cut Homes. The home was ultimately sold to Andre and Opal Mahr in 1939. A native of Telluride, Colorado, Andrew Mahr and his family moved to Santa Ana and established a citrus farm. The family resided in the house until 1959, when it was purchased for the CSUF campus. The residence is located in its original location along the eastern boundary of the campus, just south of the intersection of Melody Lane and North State College Boulevard.

The Titan House (Henry T. Hetebrink House)

The Henry T. Hetebrink House (1886) was owned by members of the Hetebrink family and remains extant on the CSUF campus. Henry T. Hetebrink, his wife Rebecca, and their five children migrated from Hanover, Germany to the United States in 1859. Hetebrink served as a member of the school board (Guinn 1902). In 1874, the Hetebrink family settled in the Placentia District, an area that was later divided between Fullerton and Placentia. After a short-lived dairy farm venture, the family turned to cultivating citrus and walnut groves, staples that came to characterize the region. A fire in the early 1880s destroyed the original Hetebrink house, and Henry T. Hetebrink built the current brick Colonial Revival-style residence in 1886. The house was built using bricks that were produced locally in a kiln near present-day Fullerton College. Around this time, the Hetebrink family began to focus on citrus cultivation, planting hundreds of Valencia orange trees on much of their 160 acres of land.

Henry F. Hetebrink sold much of his land off piecemeal, with his last four acres sold in 1950. Eventually, much of the Hetebrink ranch would be sold to CSUF. The Hetebrink residence survives in its original location; it is a Colonial Revival-style brick house with a hipped roof. According to documents on file with the City of Fullerton Planning Department, the Hetebrink residence is the only remaining residential brick home from the City's pioneering years, as well as one of the oldest in the County (City of Fullerton n.d.). In 2000, CSUF restored the house at a cost of $500,000 (Harder 2001).

The Heritage House (Dr. George C. Clark Home and Office)

Constructed in 1896, the Dr. George C. Clark House and Office is an intact example of the Eastlake Victorian style architecture in Fullerton. The home was built for Dr. George C. Clark, Fullerton's first physician. Clark was instrumental in the 1913 construction of the Fullerton General Hospital (City of

Fullerton N.d.). Originally located at 114 North Lemon Street in the original town site, the residence was moved to the CSUF Arboretum in 1972. The property is listed in the NRHP.

Pollak Library

The Pollak Library was designed by Risley, Gould & Van Heuklyn and constructed by J. B. Allen & Co. in 1963. With completion of the Library, the historic campus core, centered around the Library, McCarthy Hall, Clayes Performing Arts Center, and Titan Gymnasium, was complete.

Cultural Resources Survey

Rincon conducted a pedestrian field survey of the project site on July 15, 2019. The survey was performed using transect intervals spaced no greater than 15 meters, targeting areas of exposed ground surfaces on the CSUF campus. All exposed ground surfaces were examined for artifacts (e.g., flaked stone tools, tool-making debris, stone milling tools, ceramics, fire-affected rock), ecofacts (marine shell and bone), soil discoloration that might indicate the presence of a cultural midden, soil depressions and features indicative of the former presence of structures or buildings (e.g., standing exterior walls, postholes, foundations) or historic debris (e.g., metal, glass, ceramics). Ground disturbances such as burrows and drainages were also visually inspected (Appendix I). No archaeological resources were identified as a result of the field survey. Visibility of the ground surface across the project site was generally poor (less than 20 percent) as much of the area is covered with standing buildings and structures, hardscape, and landscaping. The small areas of exposed ground surfaces that were inspected by the archaeologist found no evidence of archaeological deposits or remains.

Historic Resources Survey

Rincon completed a campus-wide historic resources survey. The objective of this survey is to provide substantial evidence and baseline information to CSUF on qualifying historical resources. Results were presented in a Historic Resources Survey Report, included as Appendix F, and a summary is presented below in Table 4.3-3. The survey included built environment properties 45 years of age and older as shown in Figure 4.3-2; temporary buildings and structures were omitted from the survey. Work efforts included archival research, literature review, and an intensive-level field survey. The NRHP and CRHR eligibility criteria were applied all properties 45 years of age and older. The survey considered buildings, structures, objects, sites, as well as potential historic districts and cultural landscapes in accordance with National Park Service best practice and guidance.

As of 2020, the CSUF campus consists of approximately 118 buildings and structures, both permanent and temporary. A total of 15 permanent CSUF properties fell within the age cut-off for the historic resources survey, as shown in Figure 4.3-3. Among these, a total of 13 were determined eligible for listing on the NRHP and/or CRHR; these properties qualify as historical resources pursuant to CEQA.

Table 4.3-3 Summary of Historic Resources Survey Results

	Current (Historical) Building Name	Year	Historical Resource (Criteria)
1	Titan House (Henry T. Hetebrink House)	1886	Yes (A/1, C/3)
2	Heritage House (Dr. George C. Clark House and Office)	1896	Yes (A/1, C/3)
3	George G. Golleher Alumni House (Mahr House)	1931	Yes (A/1, C/3)
4	McCarthy Hall (Letters & Science Building)	1963	Yes (A/1, C/3)
5	Clayes Performing Arts Center (Music-Speech-Drama Building)	1965	Yes (A/1, C/3)
6	Titan Gymnasium/Health Science Building (Physical Education/Gymnasium Building)	1965-1967	Yes (3, CRHR only)
7	Pollak Library (Library)	1966	Yes (A/1, C/3)
8	Book Store/Titan Shops (Cafeteria-Commons Building)	1967	Yes (A/1, C/3)
9	Humanities/Social Sciences Bldg.	1969	Yes (A/1, C/3)
10	Visual Arts Complex (6 buildings)	1969	Yes (A/1, C/3)
11	Langsdorf Hall (Administration Building)	1970	Yes (A/1, C/3)
12	Engineering/ Computer Science (Engineering Building)	1971	No
13	Student Health & Counseling Ctr. (Health Center)	1974	Yes (3, CRHR only)
14	Titan Hall (Western State University College of Law)	1974	Yes (3, CRHR only)
15	Arboretum	1972-1979	No

Figure 4.3-2 CSUF Buildings Included in Historic Resources Survey: Permanent Buildings of 45+ Years of Age

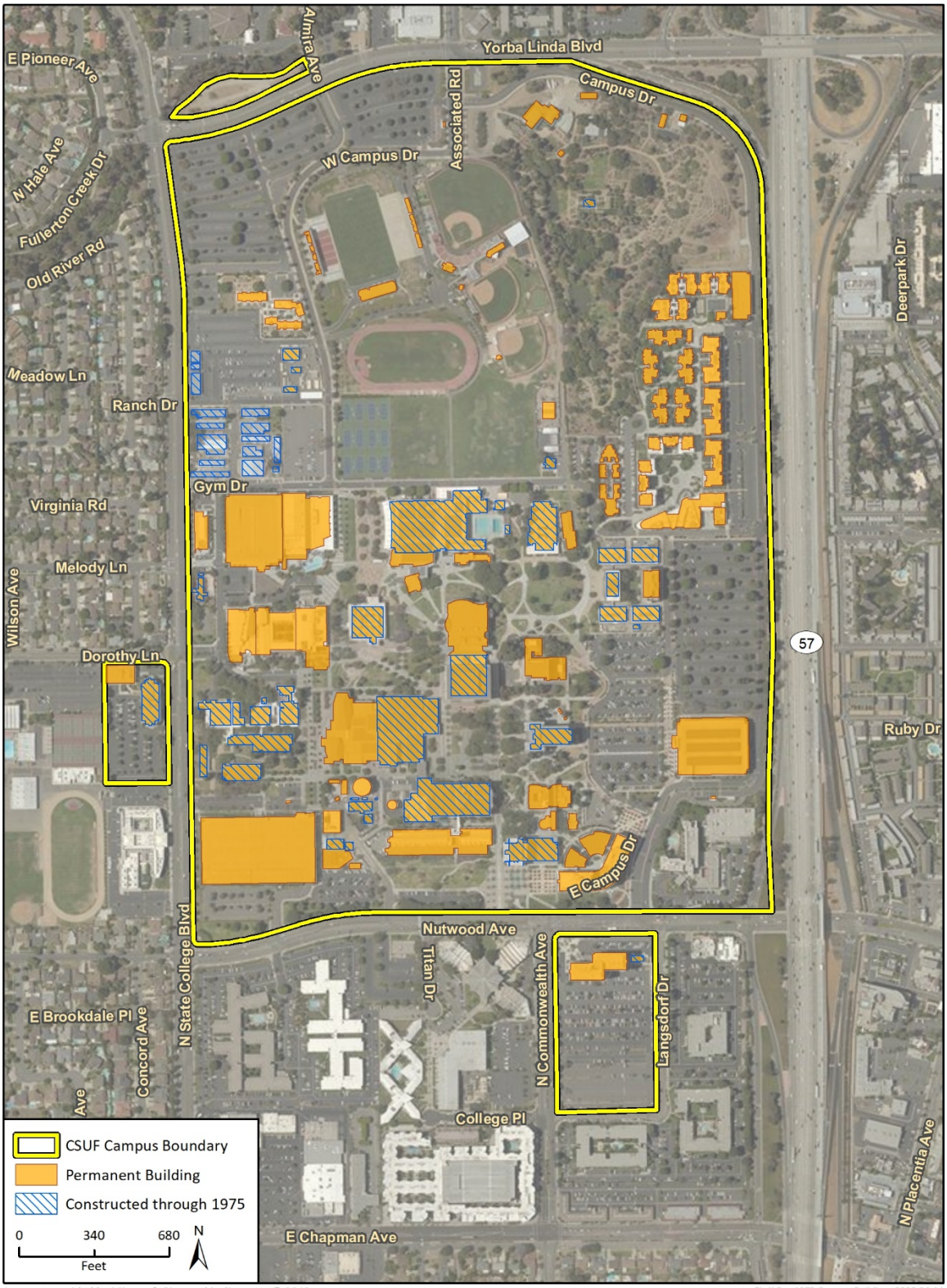

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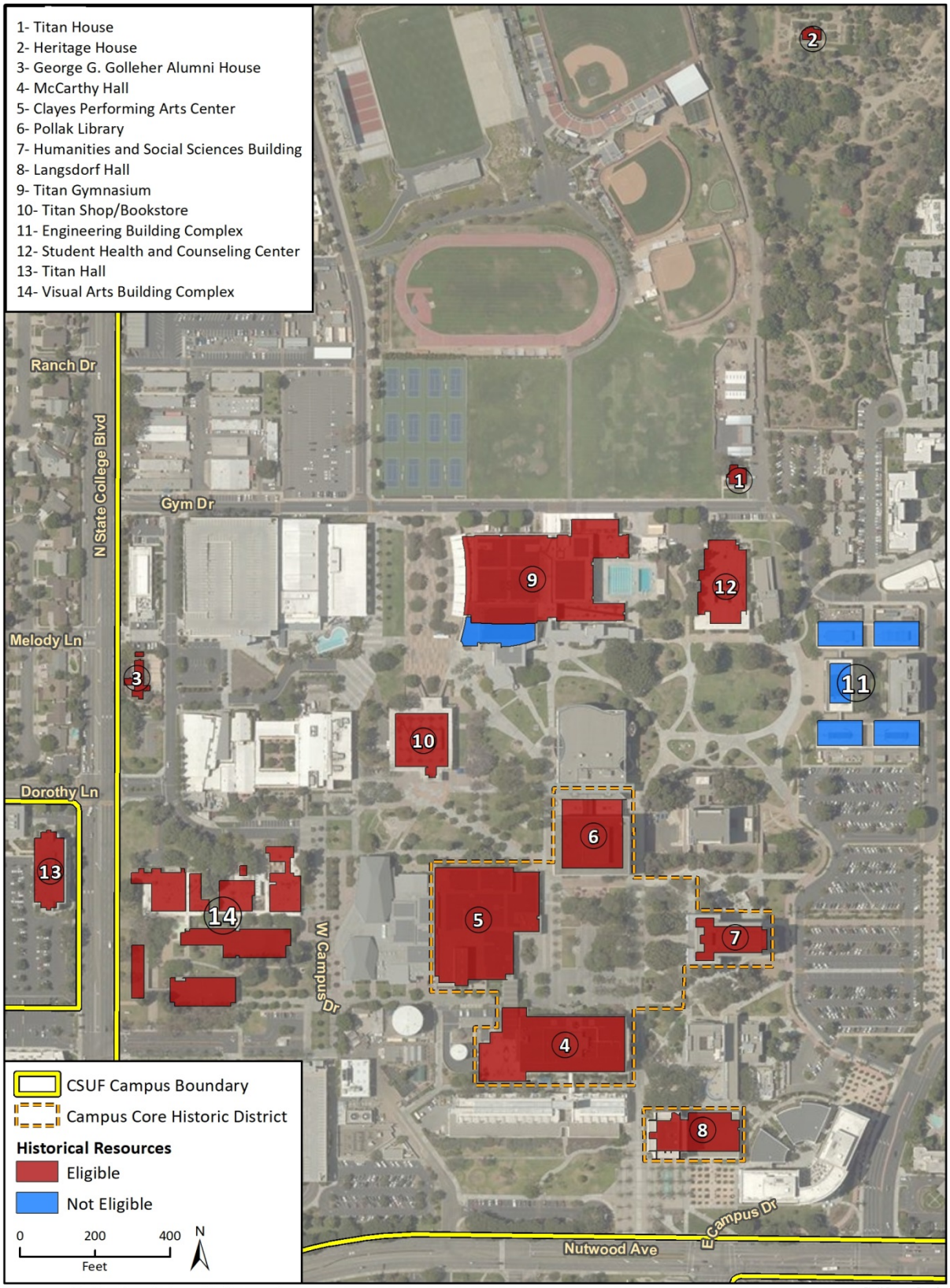
Fig X Pre-1975 Campus Buildings 2020-04-14

Figure 4.3-3 Historic Resources Evaluation Results, CSUF Campus



Imagery provided by Microsoft Bing and its licensors © 2019.

Fig X Survey Results

The following section summarizes eligible historical resources, criteria, periods of significance, and contributing elements and features. Full results are included in the HRSR presented in Appendix F.

#1: Titan House

Historic Name/Current Name:	**Henry T. Hetebrink House/Titan House (1886)**
Eligible Historical Resource?	**Yes, individually eligible**
Applicable Criteria:	**A/1, C/3**
Period of Significance:	**1886**

Character-Defining Features:

- One-story massing
- Colonial Revival-influenced style
- Symmetrical design composition
- Hipped roof with interior brick chimney, slight eave overhang, exposed rafter tails
- Exterior brick walls
- Full-width porch with brick base and hipped roof, squared tapered columns and piers
- Rear entry porch with concrete base, wood latticework siding, squared paneled piers, wood balustrade, and glazed doors
- Wood transom windows and casement windows flanking primary entrance
- Double-hung wood windows

Overview of Alterations:

- Roof vents
- Double-entry stairs and ADA-accessible ramp on south and east elevations
- Original door appears to have been replaced
- Greenhouse addition along western elevation

Reasons Statement:

Criteria A/1: The Titan House (Henry T. Hetebrink House), built for and by Fullerton settler and citrus farmer Henry Hetebrink, appears NRHP/CRHR eligible under Criteria A/1, as a rare, intact embodiment of a significant pattern of development: namely, Fullerton's founding years and early agricultural era.

Criteria C/3: The Hetebrink House appears NRHP/CRHR eligible under Criteria C/3 as a rare example of a 19th-century Colonial Revival-influenced style home and as one of the oldest brick residences in Orange County.

#2: Heritage House

Historic Name/Current Name:	**Dr. George C. Clark House and Office/Heritage House (1896)**
Eligible Historical Resource?	**Yes (listed in the NRHP)**
Applicable Criteria:	**A/1, C/3**

Character-Defining Features:

- Architectural focal point and anchor of the CSUF Arboretum complex
- One-and-a-half-story massing
- Eastlake Victorian style
- Asymmetrical design composition
- Wood clapboard wall cladding with corner boards and fish scale detailing on gable ends
- Full-width wrap-around porch with turned wood spindle supports, low wood balustrade, decorative trusses, and spindlework frieze
- Beveled, stained-glass, and single-hung wood windows
- Sunburst and basket weaving motifs in window surrounds
- Rear bay window capped with gable roof featuring elaborate ornamented gable detailing and roof cresting

Overview of Alterations:

- Moved to current site in 1972
- Reconstructed steeply pitched hipped with cross gabled roof; cedar shingle sheathing; interior brick chimneys and ornate gables
- Rear ADA-accessible ramp
- Interior spaces re-plastered

Reasons Statement:

Criteria A/1: The Heritage House (Dr. George C. Clark House and Office) is listed on the NRHP. The property appears NRHP/CRHR eligible under Criteria A/1, as a rare, intact embodiment of a significant pattern of development: namely, Fullerton's founding years and early agricultural era.

Criteria C/3: The Heritage House appears NRHP/CRHR eligible under Criteria C/3 as one of the last remaining examples of the Eastlake Victorian style in Fullerton (C/3) and an intact exemplification of Fullerton's founding years (A/1).

#3: George G. Golleher Alumni House

Historic Name/Current Name:	**Mahr House/George G. Golleher Alumni House (1931)**
Eligible Historical Resource?	**Yes (individually eligible)**
Applicable Criteria:	**C/3**
Period of Significance:	**1931**

Character-Defining Features:

- Two-story massing
- Spanish Colonial Revival style
- Asymmetrical design composition with central rectangular body and various wings
- Flat and gable roof clad in red clay tiles with exposed rafter tails
- Battered stucco-clad exterior
- Central courtyard with fountain featuring stucco- and tile-clad base
- Balconies with double wood doors
- Inset balcony along eastern elevation with squared piers
- Paired wood casement windows

Overview of Alterations:

- Building appears to have been re-stuccoed, possibly in 1960
- North wing addition
- Concrete Masonry Unit (CMU) stucco-clad wall with archway entrance and rear arcade
- Tile flooring of interior courtyard
- Wood gate entrances along eastern elevation
- Modern light sconces
- Wood pergola

Reasons Statement:

Criteria C/3: The George G. Golleher Alumni House (Mahr House) appears NRHP/CRHR eligible under Criteria C/3 as an intact, distinctive example of the Spanish Colonial Revival style.

CSUF Campus Core Historic District

Criteria A/1 eligibility: The CSUF Campus Core Historic District is eligible as an intact, cohesive collection of institutional properties built during CSUF's founding years. The historic district exemplifies institutional/educational facility expansion in Fullerton during the City's postwar transformation.

Period of significance: 1963 – 1970

Criteria C/3 eligibility: The CSUF Campus Core Historic District is also eligible as a distinctive, outstanding example of the New Formalist/Late Modern architectural style, applied to institutional properties/educational facilities. The district represents one of the most expansive and intact collections of New Formalist/Late Modern architecture in Fullerton.

Period of Significance: 1963 – 1970

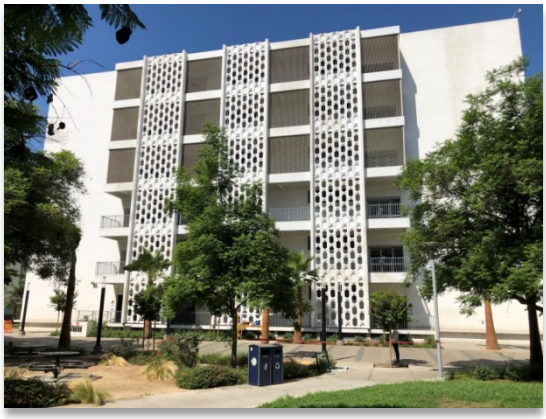
Historic District Description: The Campus Core Historic District is a cohesive, distinctive grouping of the earliest buildings designed for CSUF during its most active construction phase. The district exemplifies the rapid, widespread postwar expansion of Fullerton, both in terms of population growth and new construction (Criteria A/1). In addition, with its unified site plan, distinctive architectural style, associated landscaping and hardscaping features, the Campus Core Historic District represents one of Fullerton's most extensive and intact collections of New Formalist/Late Modern architecture (Criteria C/3).

Primary contributors to the historic district are McCarthy Hall; Clayes Performing Arts Center; Pollak Library; Humanities and Social Sciences Building, and Langsdorf Hall. The five buildings that contribute to the historic district are unified but distinctive expressions of New Formalism/Late Modern architectural style. They exhibit an emphasis on monumentality; the use of smooth white and natural-toned concrete exteriors; and repeating hexagonal motifs. A unified site design, with shared circulation and view corridors, landscaping/hardscaping features, and a shared central quad; also contribute to the historic district.

Figure 4.3-4 Panoramic Views of Campus Core Historic District

Source: Rincon Consultants, 2019

#4: McCarthy Hall



Historic Name/Current Name:	**Letters and Science Building/McCarthy Hall (1963)**
Eligible Historical Resource?	**Yes; contributor to Campus Core Historic District**
Applicable Criteria:	**A/1; C/3**
Period of Significance:	**1963 – 1970 (historic district)**

Character-Defining Features:

- Site plan/design, with mature landscaping and siting in relation to other buildings
- Axial, north-south circulation corridor/sight line flanking building
- New Formalist/Late Modern architectural style; symmetrical design composition; smooth white concrete cladding
- Six-story monumental massing; flat roof
- Projecting walkways with low metal fences on lower stories; screen enclosures
- Walkways with full-height concrete screens with honeycomb-patterned perforations
- Thirteen shallow, full-height projecting arches spanning north and south elevations; windows recessed within full-height arches
- Precast textured concrete panels and aluminum lettering along southern elevation
- North elevation entrance with central roll-up grille with low-slope concrete ramps

Overview of Alterations:

- Connecting second-story walkway between southern and northern elevations

Reasons Statement:

Criteria A/1 eligibility: McCarthy Hall is a contributor to the Campus Core Historic District, eligible under NRHP/CRHR Criteria A/1 as an intact, cohesive collection of institutional properties built during CSUF's founding years. The district exemplifies a significant pattern of development: institutional/educational facility expansion during the City's postwar boom and transformation.

Criteria C/3 eligibility: McCarthy Hall is a contributor to the Campus Core Historic District, eligible for NRHP/CRHR listing under Criteria C/3 for its distinctive New Formalist/Late Modern architectural style. The CSUF Campus Core Historic District, along with its associated landscaping and hardscaping features, represents one of Fullerton's most extensive and intact collections of New Formalist/Late Modern architecture.

#5: Clayes Performing Arts Center

Historic Name/Current Name:	**Music-Speech-Drama Bldg/Clayes Performing Arts Ctr (1965)**
Eligible Historical Resource?	**Yes; contributor to Campus Core Historic District**
Applicable Criteria:	**A/1; C/3**
Period of Significance:	**1963 – 1970 (historic district)**

Character-Defining Features:

- Site plan/design, with mature landscaping and siting in relation to other three buildings in quad
- Axial, north-south circulation corridor/sight line flanking building
- Mostly two- to three-story massing
- Monumental mass/volume and repeating geometric hexagonal pattern
- New Formalist/Late Modern architectural style
- Symmetrical design composition; smooth concrete exterior; capped with flat roof
- Pre-cast concrete screen panel perforated with elongated hexagonal voids to form a complex honeycomb pattern.
- Concrete panels along north and east elevations
- Ribbons of fixed aluminum windows
- Covered walkway with folded plate roof

Overview of Alterations:

- Addition on west elevation in 2000
- Solar panel installation on roof

Reasons Statement:

Criteria A/1 eligibility: Clayes Performing Arts Center is a contributor to the Campus Core Historic District, eligible under NRHP/CRHR Criteria A/1 as an intact, cohesive collection of institutional properties built during CSUF's founding years. The district exemplifies a significant pattern of development: institutional/educational facility expansion during the City's postwar boom and transformation.

Criteria C/3 eligibility: Clayes Performing Arts Center is a contributor to the Campus Core Historic District, eligible for NRHP/CRHR listing under Criteria C/3 for its distinctive New Formalist/Late Modern architectural style. The CSUF Campus Core Historic District, along with its associated landscaping and hardscaping features, represents one of Fullerton's most extensive and intact collections of New Formalist/Late Modern architecture.

#6: Pollak Library

Historic Name/Current Name:	**Library/Pollak Library (1966)**
Eligible Historical Resource?	**Yes; contributor to Campus Core Historic District**
Applicable Criteria:	**A/1; C/3**
Period of Significance:	**1963 – 1970 (historic district)**

Character-Defining Features:

- Site plan/design, with mature landscaping and unified spatial relationships
- Axial, north-south circulation corridor/sight line flanking building
- Five-story massing; box-like shape supported by concrete, beveled golf tee-shaped legs
- New Formalist/Late Modern architectural style; symmetrical design composition
- Flat roof with minimal eave overhang
- Smooth natural-colored concrete base
- Projecting, honeycomb-patterned concrete screen applied to main elevations
- Wide, low entrance terrace facing quad

Overview of Alterations:

- Addition on north elevation circa 2003
- Removed material on west/south elevations

Reasons Statement:

Criteria A/1 eligibility: The Pollak Library is a contributor to the Campus Core Historic District, eligible under NRHP/CRHR Criteria A/1 as an intact, cohesive collection of institutional properties built during CSUF's founding years. The district exemplifies a significant pattern of development: institutional/educational facility expansion during the City's postwar boom and transformation.

Criteria C/3 eligibility: The Pollak Library is a contributor to the Campus Core Historic District, eligible for NRHP/CRHR listing under Criteria C/3 for its distinctive New Formalist/Late Modern architectural style. The CSUF Campus Core Historic District, along with its associated landscaping and hardscaping features, represents one of Fullerton's most extensive and intact collections of New Formalist/Late Modern architecture.

#7: Humanities and Social Sciences Building

Historic Name/Current Name:	**Humanities and Social Sciences Building (1969)**
Eligible Historical Resource?	**Yes; contributor to Campus Core Historic District**
Applicable Criteria:	**A/1; C/3**
Period of Significance:	**1963 – 1970 (historic district)**

Character-Defining Features:

- Site plan/design, with mature landscaping and siting in relation to other three buildings in quad
- Axial, north-south circulation corridor/sight line flanking building
- Mass/volume; seven stories supported by recessed beveled golf tee-shaped legs
- New Formalist/Late Modern architectural style
- Symmetrical design composition
- Flat roof
- Exteriors of smooth natural-colored concrete and featuring a repeating hexagonal pattern
- Elongated vertical bands on west elevation with evenly placed hexagonal medallions creates screen

Overview of Alterations:

- Industrial doors appear nonoriginal

Reasons Statement:

Criteria A/1 eligibility: The Humanities and Social Sciences Building is a contributor to the Campus Core Historic District, eligible under NRHP/CRHR Criteria A/1 as an intact, cohesive collection of institutional properties built during CSUF's founding years. The district exemplifies a significant pattern of development: institutional/educational facility expansion during the City's postwar boom and transformation.

Criteria C/3 eligibility: The Humanities and Social Sciences Building is a contributor to the Campus Core Historic District, eligible for NRHP/CRHR listing under Criteria C/3 for its distinctive New Formalist/Late Modern architectural style. The CSUF Campus Core Historic District, along with its associated landscaping and hardscaping features, represents one of Fullerton's most extensive and intact collections of New Formalist/Late Modern architecture.

#8: Langsdorf Hall

Historic Name/Current Name:	**Administration Building/Langsdorf Hall (1970)**
Eligible Historical Resource?	**Yes; contributor to Campus Core Historic District**
Applicable Criteria:	**A/1; C/3**
Period of Significance:	**1963 – 1970 (historic district)**

Character-Defining Features:

- Unified site plan/design, with mature landscaping and connecting corridors
- Situated behind central fountain
- Nine-story central cross-shaped body with three-story eastern wing supported by concrete, beveled golf tee-shaped legs; columns form a sheltered arcade
- New Formalist/Late Modern architectural style
- Symmetrical design composition; flat roof
- Exteriors of smooth natural-colored concrete and featuring central repeating hexagonal patterns on each elevation; cells frame long, narrow windows
- South elevation features deeply recessed two-story entrance with curtain wall
- Concrete terrace on north elevation; diagonal U-shaped staircases

Overview of Alterations:

- Windows and doors along north elevation of wing appear to be nonoriginal

Reasons Statement:

Criteria A/1 eligibility: Langsdorf Hall is a contributor to the Campus Core Historic District, eligible under NRHP/CRHR Criteria A/1 as an intact, cohesive collection of institutional properties built during CSUF's founding years. The district exemplifies a significant pattern of development: institutional/educational facility expansion during the City's postwar boom and transformation.

Criteria C/3 eligibility: Langsdorf Hall is a contributor to the Campus Core Historic District, eligible for NRHP/CRHR listing under Criteria C/3 for its distinctive New Formalist/Late Modern architectural style. The CSUF Campus Core Historic District, along with its associated landscaping and hardscaping features, represents one of Fullerton's most extensive and intact collections of New Formalist/Late Modern architecture.

#9: Titan Gymnasium/Kinesiology & Health Science Building

Historic Name/Current Name:	**Physical Ed and Gymnasium Bldg/Titan Gymnasium/ Kinesiology & Health Science Building (1965-1967)**
Eligible Historical Resource?	**Yes, individually eligible** (due to site plan alterations/recent in-fill, this property is not a contributor to the Campus Core Historic District)
Applicable Criteria:	**CRHR 1/3 (Not NRHP eligible due to alterations)**
Period of Significance:	**1965 – 1967**

Character-Defining Features:

- Site plan/design, with mature landscaping; one-story massing of geometric volumes
- New Formalist/Late Modern architectural style; flat roof
- Folded plate roofs with tapered squared columns along north and west elevations
- Smooth brick and concrete exterior
- Repeating hexagonal pattern on vertically projecting concrete volume
- Recessed entrance, raised terrace, and multi-colored brick hardscaping
- Band of industrial doors on west elevation; concrete benches with tapered pier legs

Overview of Alterations:

- Addition on east/south elevations circa 2003
- Solar panel installation on roof

Reasons Statement:

Criteria 1 eligibility: Titan Gymnasium appears CRHR eligible under Criteria 1 for its exemplification of Fullerton's rapid and extensive institutional growth and building boom in the postwar period. The building reflects a significant pattern of development in Fullerton: namely, that of institutional/educational facility expansion during the City's postwar period.

Criteria 3 eligibility: Titan Gymnasium appears CRHR eligible under Criteria 3 for its intact, distinctive New Formalist/Late Modern architectural style. The contributing features of the resource include the general site plan, surrounding hardscaping, and the concrete plaza that connects the building to the Titan Shop/Book Store. Due to alterations (including additions in 2003), the Titan Gymnasium is not recommended eligible for the NRHP.

#10: Titan Shop/Book Store

Historic Name/Current Name:	**Cafeteria-Commons Building/Titan Shop/Book Store (1967)**
Eligible Historical Resource?	**Yes, individually eligible** (due to site plan alterations/recent in-fill, this property is not a contributor to the Campus Core Historic District)
Applicable Criteria:	**A/1; C/3**
Period of Significance:	**1967**

Character-Defining Features:

- Site plan/design, with mature landscaping
- Rectangular form; New Formalist/Brutalist architectural style
- Symmetrical design composition
- Inverted umbrella shell roof upheld by tapered columns; cantilevered roof eaves
- Concrete-clad exterior walls; walls marked with procession of attached concrete piers with reverse tapering
- Curtain walls and bands of windows with slightly raised mullions, emphasizing verticality
- Squared 'U'-shaped diagonal concrete ramps/stairs with raised sides on north and south elevations
- Tapered rectangular planters at southern end, raised concrete walls, and gradually stepped platform, emphasizing the building's material and monumentality

Overview of Alterations:

- Industrial doors appear to be nonoriginal

Reasons Statement:

Criteria 1 eligibility: Titan Shop/Book Store appears NRHP/CRHR eligible under Criteria A/1 for its exemplification of Fullerton's rapid and extensive institutional growth and building boom in the postwar period. The building reflects a significant pattern of development in Fullerton: namely, that of institutional/educational facility expansion during the City's postwar period.

Criteria 3 eligibility: Titan Shop/Book Store appears NRHP/CRHR eligible under Criteria C/3 for its distinctive, intact New Formalist/Brutalist architectural style. Contributing elements include the surrounding hardscaping and concrete plaza connecting the building to the Titan Gymnasium.

#11: Engineering and Computer Science Building Complex

Historic Name/Current Name:	**Engineering Building/ Engineering and Computer Science Building Complex**
Year of Construction:	**1971**
Architect/Designer/Contractor:	**Tutor-Myers Co.**
Eligible Historical Resource?	**No**
Applicable Criteria:	**N/A**

Character-Defining Features:

- N/A

Overview of Alterations:

- Western building in complex constructed in 1988

Reasons Statement:

The Engineering and Computer Science Building Complex exhibits some of the character-defining features of the New Formalist/Late Modernist architectural style. However, the complex overall, seen in the context of similar buildings on campus, is an example but not a distinctive example of its architectural style.

In addition, research did not indicate that the building is associated with any significant events or patterns of development.

The building complex also does not appear to meet NRHP Criterion G.

Therefore, it is not eligible for either the NRHP or CRHR and is not a historical resource pursuant to CEQA.

#12: Student Health & Counseling Center

Historic Name/Current Name:	**Health Center/Student Health & Counseling Center (1974)**
Eligible Historical Resource?	**Yes, individually eligible** (due to site plan alterations/in-fill, this property is not a contributor to the Campus Core Historic District)
Applicable Criteria:	**1/3 (CRHR only)**
Period of Significance:	**1974**

Character-Defining Features:

- Site plan/design, with mature landscaping and stepped retaining wall; benches; large central lawn with mature trees
- Mass/symmetrical design composition; emphasis on horizontality; Mid-Century Modern/Late Modernism architectural style; ribbon windows
- Paired paneled concrete doors; heavy projecting roof slab with overhanging eaves and pronounced fascia; repeating rectangles and squares with dropped lights
- Wrap-around colonnade; temple-like form; smooth concrete exteriors; hexagonal decorative motif

Overview of Alterations:

- Doors along east elevation appear to be unoriginal

Reasons Statement:

Criteria 1 eligibility: The Student Health & Counseling Center appears CRHR eligible under Criteria 1 for its exemplification of Fullerton's rapid and extensive institutional growth and building boom in the postwar period. Due to its age (fewer than 50 years old), the building is not recommended eligible for the NRHP under Criteria A at this time.

Criteria 3 eligibility: The Student Health & Counseling Center appears CRHR eligible under Criteria 3 for its distinctive Mid-Century Modern/Late Modernist architectural style. Due to its age (fewer than 50 years old), the building is not recommended eligible for the NRHP at this time. Contextual information on Mid-Century Modern/Late Modern architecture in Fullerton does not exist to demonstrate that the building meets NRHP Criterion G (for exceptional significance for properties under 50 years of age). The NRHP criteria can be reassessed once such information is available or the building turns 50 years of age.

#13: Titan Hall

Historic Name/Current Name:	**Western State University College of Law/Titan Hall (1974)**
Eligible Historical Resource?	**Yes, individually eligible** (due to its location, this property is not a contributor to the Campus Core Historic District)
Applicable Criteria:	**1/3 (CRHR only)**
Period of Significance:	**1974**

Character-Defining Features:

- Three-story massing; emphasis on verticality; New Formalist/Late Modernism style; symmetrical design composition
- Flat roof with slightly overhanging eave; tiered appearance from end bays
- Building form accentuated with thick fascia and belt course; smooth concrete exterior; ribbon windows with thick surrounds
- Bays on north and south elevations characterized by a tall central projection flanked by two smaller towers, rough concrete masonry units (CMUs), and column of fixed windows capped with flat roof
- Recessed entrance features floor-to-ceiling windows and industrial doors

Overview of Alterations:

- N/A

Reasons Statement:

Criteria 1 eligibility: Titan Hall appears CRHR eligible under Criteria 1 for its exemplification of Fullerton's rapid and extensive institutional growth and building boom in the postwar period. Due to its age (fewer than 50 years old), the building is not recommended eligible for the NRHP under Criteria A at this time.

Criteria 3 eligibility: Titan Hall appears CRHR eligible under Criteria 3 for its distinctive New Formalist/Late Modernist architectural style. Due to its age (fewer than 50 years old), the building is not recommended eligible for the NRHP at this time. Although it is a distinctive example of its style, contextual information on New Formalism/Late Modern architecture in Fullerton as a whole does not exist to demonstrate that the building meets NRHP Criterion G (for exceptional significance for properties under 50 years of age). The NRHP criteria can be reassessed once such information is available or the building turns 50 years of age.

#14: Visual Arts Building Complex

Historic Name/Current Name:	**Visual Arts Building/Visual Arts Building Complex (1969)**
Eligible Historical Resource?	**Yes, multiple-property resource**
Applicable Criteria:	**A/1; C/3**
Period of Significance:	**1969-1970**

Character-Defining Features:

- One-to-two-story massing; horizontal design composition; geometric volumes
- Mid-Century Modern architectural style
- Complex of buildings connected by sheltered breezeways/arcades with flat roofs supported by squared columns
- Flat roof; exteriors of smooth concrete
- Modular design and brick pathways
- Post-and-beam construction
- Bands of sliding aluminum windows
- Grid-like screens above doorways
- Large water feature in center of complex
- Exterior spaces sectioned off with wood fences
- "Water Wall" sculpture by Ray Heins (1970)

Overview of Alterations:

- N/A

Reasons Statement:

Criteria A/1 eligibility: Visual Arts Building Complex appears NRHP/CRHR eligible under Criteria A/1 for its exemplification of Fullerton's rapid and extensive institutional growth and building boom in the postwar period. The complex reflects a significant pattern of development in Fullerton: namely, that of institutional/educational facility expansion during the City's postwar period.

Criteria C/3 eligibility: The Visual Arts Building Complex appears NRHP/CRHR eligible under Criteria C/3 for its distinctive Mid-Century Modernist architectural style. Although originally included in the 1962 Master Plan, the Visual Arts Building Complex was not constructed until 1969 and is physically separated and stylistically differentiated from the CSUF's historic core. The complex's modular, post-and-beam style is typical of Mid-Century Modern institutional architecture. The 1970 "Water Wall" sculpture, reflecting pool, and courtyard contribute to this complex.

Arboretum

Historic Name/Current Name: **Arboretum (1972-1979)**

Eligible Historical Resource? **No**

Applicable Criteria: **N/A**

Character-Defining Features:

- N/A

Overview of Alterations:

- N/A

Evaluation Summary:

The Arboretum, primarily developed in 1977-1979 and past the survey target for this study, warrants evaluation once all of its components reach 45 years of age. Although there appear to be eight surviving Valencia orange trees on the campus, including several on the site of the Arboretum, available literature did not reveal their location or origins. Once the components of the Arboretum reach 45 years of age, it is recommended that additional archival research and a subsequent survey, with a team including a preservation professional and arborist, be undertaken.

4.3.3 Regulatory Setting

a. Federal

National Historic Preservation Act

The National Historic Preservation Act (NHPA) is the federal law that establishes the nation's policy for historic preservation and governs the treatment of cultural resources. Under Section 106 of the NHPA, when a federal agency is involved in an undertaking, it must account for the effects of the undertaking on historic properties. Historic properties are those that meet criteria for inclusion on the National Register of Historic Places (NRHP). Federal agencies issuing permits for the project are required to comply with NHPA requirements.

National Register of Historic Places

The National Register of Historic Places (NRHP) was established by the National Historic Preservation Act of 1966 as "an authoritative guide to be used by federal, State, and local governments, private groups and citizens to identify the Nation's cultural resources and to indicate what properties should be considered for protection from destruction or impairment" (CFR 36 CFR 60.2). The NRHP recognizes properties that are significant at the national, state, and local levels. To be eligible for listing in the NRHP, a resource must be significant in American history, architecture, archaeology, engineering, or culture. A property is eligible for the NRHP if it:

Criterion A: Is associated with events that have made a significant contribution to the broad patterns of our history; or

Criterion B: Is associated with the lives of persons significant in our past; or

Criterion C: Embodies the distinctive characteristics of a type, period, or method of installation, or represents the work of a master, possesses high artistic values, or represents a significant and distinguishable entity whose components may lack individual distinction; or

Criterion D: Has yielded, or may be likely to yield, information important in prehistory or history.

In addition to meeting these criteria, a property must retain historic integrity, which is defined in National Register Bulletin 15 as the "ability of a property to convey its significance" (National Park Service 1990). In order to assess integrity, the National Park Service recognizes seven aspects or qualities that, considered together, define historic integrity. To retain integrity, a property must possess several, if not all, of these seven qualities, which are defined in the following manner in National Register Bulletin 15:

1. **Location.** The place where the historic property was constructed or the place where the historic event occurred.
2. **Design.** The combination of elements that create the form, plan, space, structure, and style of a property.
3. **Setting.** The physical environment of a historic property.
4. **Materials** are the physical elements that were combined or deposited during a particular period of time and in a particular pattern or configuration to form a historic property.

5. **Workmanship.** The physical evidence of the crafts of a particular culture or people during any given period in history or prehistory.
6. **Feeling.** A property's expression of the aesthetic or historic sense of a particular period of time.
7. **Association.** The direct link between an important historic event or person and a historic property.

Some aspects of integrity may be accorded more weight than others, depending on the type of resource being evaluated and the applicable eligibility criteria. Integrity can be assessed only after it has been concluded that a resource is significant.

Secretary of the Interior's Standards for Rehabilitation

In accordance with the National Park Service and CEQA Guidelines, projects that comply with the *Secretary's Standards for the Treatment of Historic Properties* and *Secretary's Standards for Rehabilitation* (*Secretary's Standards*) are projects that retain the historic integrity of the resource. According to CEQA Guidelines, a project that complies with the *Secretary's Standards* is generally considered to be a project that will not cause a significant adverse impact to a historical resource.

The goal of the *Secretary's Standards* is to outline treatment approaches that allow for the retention of and/or sensitive changes to the distinctive materials and features that lend a historical resource its significance. The *Secretary's Standards* and Guidelines offer general recommendations for preserving, maintaining, repairing, and replacing historical materials and features, as well as designing new additions or making alterations. These standards also provide guidance on new construction adjacent to historic districts and properties, in order to ensure that there are no indirect adverse impacts to historic properties.

Rehabilitation is the most flexible treatment approach of the *Secretary's Standards*. The ten *Secretary's Standards for Rehabilitation* are:

1. A property shall be used for its historic purpose or be placed in a new use that requires minimal change to the defining characteristics of the building and its site and environment.
2. The historic character of a property shall be retained and preserved. The removal of historic materials or alteration of features and spaces that characterize a property shall be avoided.
3. Each property shall be recognized as a physical record of its time, place, and use. Changes that create a false sense of historical development, such as adding conjectural features or architectural elements from other buildings, shall not be undertaken.
4. Most properties change over time; those changes that have acquired historic significance in their own right shall be retained and preserved.
5. Distinctive features, finishes, and construction techniques or examples of craftsmanship that characterize a property shall be preserved.
6. Deteriorated historic features shall be repaired rather than replaced. Where the severity of deterioration requires replacement of a distinctive feature, the new feature shall match the old in design, color, texture, and other visual qualities and, where possible, materials. Replacement of missing features shall be substantiated by documentary, physical, or pictorial evidence.

7. Chemical or physical treatments, such as sandblasting, that cause damage to historic materials shall not be used. The surface cleaning of structures, if appropriate, shall be undertaken using the gentlest means possible.
8. Significant archeological resources affected by a project shall be protected and preserved. If such resources must be disturbed, mitigation measures shall be undertaken.
9. New additions, exterior alterations, or related new construction shall not destroy historic materials that characterize the property. The new work shall be differentiated from the old and shall be compatible with the massing, size, scale, and architectural features to protect the historic integrity of the property and its environment.
10. New additions and adjacent or related new construction shall be undertaken in such a manner that if removed in the future, the essential form and integrity of the historic property and its environment would be unimpaired.

The *Secretary's Standards and Guidelines* offer general recommendations for preserving, maintaining, repairing, and replacing historical materials and features, as well as designing new additions or making alterations. The *Secretary's Standards for Rehabilitation* also provide guidance on new construction adjacent to historic districts and properties, in order to ensure that there are no adverse indirect impacts to integrity as a result of a change in setting. Applying the *Secretary's Standards* to new construction adjacent to historic resources helps ensure avoidance of indirect impacts and retention of the setting and feeling of the historic resource and its surrounding environment.

Secretary's Standards compliance begins with the identification and documentation of the "character-defining," or historically significant, features of the historical resource. According to Preservation Brief 17, Architectural Character: Identifying the Visual Aspects of Historic Buildings as an Aid to Preserving Their Character, there is a three-step process to identifying character-defining features (Nelson, 1982). Step 1 involves assessing the physical aspects of the building exterior as a whole, including its setting, shape and massing, orientation, roof and roof features, projections, and openings. Step 2 looks at the building more closely—at materials, trim, secondary features, and craftsmanship. Step 3 encompasses the interior, including individual spaces, relations or sequences of spaces (floor plan), surface finishes and materials, exposed structure, and interior features and details. Alterations and replacement of character-defining features over time can impair a historic property's integrity and result in a loss of historic status. Therefore, to ensure that a historic property remains eligible after implementation of projects, character-defining features should be identified and preserved.

Native American Involvement

Several federal and state laws address Native American involvement in the development review process. The most notable of these are the federal Native American Graves Protection and Repatriation Act (1990) and the California Native American Graves Protection and Repatriation Act (2001). These acts ensure that Native American human remains and cultural items be treated with respect and dignity.

b. State

The policies of the NHPA are implemented at the state level by the California Office of Historic Preservation, a division of the California Department of Parks and Recreation. The Office of Historic

Preservation is also tasked with carrying out the duties described in the Public Resources Code and maintaining the California Historic Resources Inventory and CRHR. The state-level regulatory framework also includes CEQA, which requires the identification and mitigation of substantial adverse impacts that may affect the significance of eligible historical and archeological resources.

California Public Resources Code

California Public Resources Code (PRC), Sections 5097-5097.6, state that the unauthorized disturbance or removal of archaeological, historical, or paleontological resources located on public lands is a misdemeanor. Paleontological resources are further addressed in Section 4.6, *Geology and Soils*. The PRC prohibits the knowing destruction of objects of antiquity without a permit (express permission) on public lands, and it provides for criminal sanctions. This section was amended in 1987 to require consultation with the Native American Heritage Commission (NAHC) whenever Native American graves are found. Violations that involve taking or possessing remains or artifacts are felonies. As such, PRC Section 5097.5 states:

> A person shall not knowingly and willfully excavate upon, or remove, destroy, injure, or deface, any historic or prehistoric ruins, burial grounds, archaeological or vertebrate paleontological site, including fossilized footprints, inscriptions made by human agency, rock art, or any other archaeological, paleontological or historical feature, situated on public lands, except with the express permission of the public agency having jurisdiction over the lands….A violation of this section is a misdemeanor.

Here “public lands” means those owned by or under the jurisdiction of the state or any city, county, district, authority, public corporation, or any agency thereof. Consequently, local agencies are required to comply with PRC Section 5097.5 for their own activities, including construction and maintenance, as well as for permit actions (e.g., encroachment permits) undertaken by others.

California Register of Historical Resources

Created in 1992 and implemented in 1998, the CRHR is a guide for state and local agencies, private groups, and citizens to identify historical resources and those properties that should be protected, to the extent prudent and feasible, from substantial adverse change. Certain properties, including those listed in or formally determined eligible for listing on the NRHP and California Historical Landmarks numbered 770 and higher, are automatically included on the CRHR.

According to PRC Section 5024.1(c), a resource, either an individual property or a contributor to a historic district, may be listed in the CRHR if the State Historical Resources Commission determines that it meets one or more of the following criteria, which are modeled on NRHP criteria:

Criterion 1: It is associated with events that have made a significant contribution to the broad patterns of California’s history and cultural heritage

Criterion 2: It is associated with the lives of persons important in our past

Criterion 3: It embodies the distinctive characteristics of a type, period, region, or method of construction, or represents the work of an important creative individual, or possesses high artistic values

Criterion 4: Has yielded, or may be likely to yield, information important in prehistory or history

Properties that do not retain sufficient integrity for NRHP listing can still qualify for listing in the CRHR. Historical resources eligible for listing in the California Register must meet one of the criteria of significance described above and retain enough of their historic character or appearance to be recognizable as historical resources and to convey the reasons for their significance.

California Environmental Quality Act

As the Lead Agency for the proposed project, CSUF is subject to the provisions of CEQA, which requires a lead agency to determine whether a project may have a significant effect on historical resources (PRC Section 21084.1). Under CEQA, a "project that may cause a substantial adverse change in the significance of a historic resource is a project that may have a significant effect on the environment" (PRC Section 21084.1). The following CEQA statutes (PRC Section 21000 et seq.) and state CEQA Guidelines (14 CCR Section 15000 et seq.) are relevant to the analysis of archaeological, historic, and tribal cultural resources:

- PRC Section 21083.2(g) defines "unique archaeological resource" as an artifact, object, or site about which it can be clearly demonstrated that, without merely adding to the current body of knowledge, there is a high probability that it does one or more of the following:
  A. Contains information needed to answer important scientific research questions and that there is a demonstrable public interest in that information.
  B. Has a special and particular quality such as being the oldest of its type or the best available example of its type.
  C. Is directly associated with a scientifically recognized important prehistoric or historic event or person.
- The State CEQA Guidelines Section 15064.5(a) defines "historical resources" as:
  A. A resource listed in or determined to be eligible by the State Historical Resources Commission, for listing in the CRHR (PRC Section 5024.1).
  B. A resource included in a local register of historical resources, as defined in PRC Section 5020.1(k) or identified as significant in a historical resource survey meeting the requirements of PRC Section 5024.1(g), will be presumed to be historically or culturally significant. Public agencies must treat any such resource as significant unless the preponderance of evidence demonstrates that it is not historically or culturally significant.
  C. Any object, building, structure, site, area, place, record, or manuscript which a lead agency determines to be historically significant or significant in the architectural, engineering, scientific, economic, agricultural, educational, social, political, military, or cultural annals of California may be considered to be a historical resource, provided the lead agency's determination is supported by substantial evidence in light of the whole record. Generally, a resource will be considered by the lead agency to be historically significant if it meets the following criteria for listing in the CRHR (PRC Section 5024.1):
    1. Is associated with events that have made a significant contribution to the broad patterns of California's history and cultural heritage;
    2. Is associated with the lives of persons important in our past;
    3. Embodies the distinctive characteristics of a type, period, region, or method of construction, or represents the work of an important creative individual, or possesses high artistic values; or
    4. Has yielded, or may be likely to yield, information important in prehistory or history.

D. The fact that a resource is not listed in or determined to be eligible for listing in the CRHR, not included in a local register of historical resources (pursuant to PRC Section 5020.1(k)), or identified in a historical resources survey (meeting the criteria in PRC Section 5024.1(g)) does not preclude a lead agency from determining that the resource may be a historical resource as defined in PRC Sections 5020.1(j) and 5024.1.

- In addition, Section 15064.5(b) of the CEQA Guidelines specify that "substantial adverse change in the significance of an historical resource means physical demolition, destruction, relocation, or alteration of the resource or its immediate surroundings such that the significance of an historical resource would be materially impaired." Material impairment occurs when a project alters in an adverse manner or demolishes "those physical characteristics of an historical resource that convey its historical significance and that justify its inclusion" or eligibility for inclusion in the NRHR, CRHR, or local register.

  In addition, pursuant to CEQA Guidelines Section 15126.2, the "direct and indirect significant effects of the project on the environment shall be clearly identified and described, giving due consideration to both the short-term and long-term effects." In terms of indirect impacts, pursuant to CEQA Guidelines, Section 15378, study of a project under CEQA requires consideration of "the whole of an action, which has the potential for resulting in either a direct physical change in the environment, or a reasonably foreseeable indirect physical change in the environment."

  CEQA Guidelines, Section15064d further define direct and indirect impacts:

  A. A direct physical change in the environment is a physical change in the environment which is caused by and immediately related to the project.

  B. An indirect physical change in the environment is a physical change in the environment, which is not immediately related to the project, but which is caused indirectly by the project. If a direct physical change in the environment in turn causes another change in the environment, then the other change is an indirect physical change in the environment.

- PRC Section 21074(a) defines "tribal cultural resources" as either of the following:

  A. Sites, features, places, cultural landscapes, sacred places, and objects with cultural value to a California Native American tribe that are either of the following:

     1. Included or determined to be eligible for inclusion in the CRHR.
     2. Included in a local register of historical resources as defined in PRC Section 5020.1(k).

  B. A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in PRC Section 5024.1(c). The lead agency shall consider the significance of the resource to a California Native American Tribe.

- Section 15064.5 of the CEQA Guidelines assigns special importance to human remains and specifies procedures to be used when Native American remains are discovered. These procedures are detailed in PRC 5097.98 (additional detail provided under summary for California Health and Safety Code Section 7050.5, below).

- PRC Section 21083.2(b)(c) and Section 15126.4 of the CEQA Guidelines provide information regarding the mitigation framework for archaeological and historic resources, including examples of preservation-in-place mitigation measures. Preservation in place is the preferred manner of mitigating impacts to significant archaeological sites because it maintains the relationship between artifacts and the archaeological context, and may also help avoid conflict with religious or cultural values of groups associated with the archaeological site(s).

Impacts on significant cultural resources that affect the characteristics of any resource that qualify it for the NRHP or adversely alter the significance of a resource listed in or eligible for listing in the CRHR are considered a significant effect on the environment. These impacts could result from physical demolition, destruction, relocation, or alteration of the resource or its immediate surroundings such that the significance of an historical resource would be materially impaired (CEQA Guidelines Section 15064.5[b][1]). Material impairment is defined as demolition or alteration in an adverse manner [of] those characteristics of an historical resource that convey its historical significance and that justify its inclusion or eligibility for inclusion in the CRHR (CEQA Guidelines Section 15064.5[b][2][A]).

Impacts to non-unique archaeological resources are generally not considered a significant environmental impact (PRC Section 21083.2(a); CEQA Guidelines Section15064.5(c)(4)). However, if a non-unique archaeological resource qualifies as a tribal cultural resource (PRC Sections 21074[c], 21083.2[h]), further consideration of significant impacts is required.

California Health and Safety Code 7050.5

California law protects Native American burials, skeletal remains, and associated grave goods, regardless of their antiquity, and provides for the sensitive treatment and disposition of those remains. California Health and Safety Code (PRC Section 7050.5 et seq.) requires that if human remains are discovered in any place other than a dedicated cemetery, no further disturbance or excavation of the site or nearby area reasonably suspected to contain human remains shall occur until the County Coroner has examined the remains (PRC Section7050.5b).

PRC Section 5097.98 also outlines the process to be followed in the event that remains are discovered. If the coroner determines or has reason to believe the remains are those of a Native American, the coroner must contact the NAHC within 24 hours (PRC Section 7050.5c). The NAHC will notify a Most Likely Descendant (MLD). With the permission of the landowner, the MLD may inspect the site of discovery. The inspection must be completed within 24 hours of notification of the MLD by the NAHC. The MLD may recommend means of treating or disposing of, with appropriate dignity, the human remains and items associated with Native Americans.

Assembly Bill 52

California Assembly Bill 52 (AB 52) was enacted in 2015 and expands CEQA by defining a new resource category called tribal cultural resources (TCRs). AB 52 establishes “a project with an effect that may cause a substantial adverse change in the significance of a TCR is a project that may have a significant effect on the environment” (PRC Section 21084.2). It further states the lead agency shall establish measures to avoid impacts which would alter the significant characteristics of a TCR, when feasible (PRC Section 21084.3).

PRC Section 21074(a)(1)(A) and (B) defines TCRs as “sites, features, places, cultural landscapes, sacred places, and objects with cultural value to a California Native American tribe” and meets either of the following criteria:

1. Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources, as defined in PRC Section 5020.1(k)
2. A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in PRC Section 5024.1(c).

In recognition of California Native American tribal sovereignty and the unique relationship of California local governments and public agencies with California Native American tribal governments, and to respect the interests and roles of project proponents, it is the intent AB 52 to:

1. Recognize that California Native American prehistoric, historic, archaeological, cultural, and sacred places are essential elements in tribal cultural traditions, heritages, and identities.
2. Establish a new category of resources in CEQA called "tribal cultural resources" that considers the tribal cultural values in addition to the scientific and archaeological values when determining impacts and mitigation.
3. Establish examples of mitigation measures for tribal cultural resources that uphold the existing mitigation preference for historical and archaeological resources of preservation in place, if feasible.
4. Recognize that California Native American tribes may have expertise with regard to their tribal history and practices, which concern the tribal cultural resources with which they are traditionally and culturally affiliated. Because CEQA calls for a sufficient degree of analysis, tribal knowledge about the land and tribal cultural resources at issue should be included in environmental assessments for projects that may have a significant impact on those resources.
5. In recognition of their governmental status, establish a meaningful consultation process between California Native American tribal governments and lead agencies, respecting the interests and roles of all California Native American tribes and project proponents, and the level of required confidentiality concerning tribal cultural resources, at the earliest possible point in CEQA environmental review process, so that tribal cultural resources can be identified, and culturally appropriate mitigation and mitigation monitoring programs can be considered by the decision making body of the lead agency.
6. Recognize the unique history of California Native American tribes and uphold existing rights of all California Native American tribes to participate in, and contribute their knowledge to, the environmental review process pursuant to CEQA.
7. Ensure that local and tribal governments, public agencies, and project proponents have information available, early in CEQA environmental review process, for purposes of identifying and addressing potential adverse impacts to tribal cultural resources and to reduce the potential for delay and conflicts in the environmental review process.
8. Enable California Native American tribes to manage and accept conveyances of, and act as caretakers of, tribal cultural resources.
9. Establish that a substantial adverse change to a tribal cultural resource has a significant effect on the environment.

AB 52 also establishes a formal consultation process for California tribes regarding those resources. The consultation process must be completed before a CEQA document can be certified. AB 52 requires lead agencies to "begin consultation with a California Native American tribe that is traditionally and culturally affiliated with the geographic area of the proposed project." Native American tribes to be included in the process are those that have requested notice of projects proposed within the jurisdiction of the lead agency.

4.3.4 Impact Analysis

a. Thresholds of Significance

The significance criteria used to evaluate the project impacts to cultural resources are based on Appendix G of the CEQA Guidelines, which states that a significant impact related to cultural resources would occur if the project would:

1. Cause a substantial adverse change in the significance of a historical resource pursuant to Section 15064.5;
2. Cause a substantial adverse change in the significance of an archaeological resource pursuant to Section 15064.5; or
3. Disturb any human remains, including those interred outside of formal cemeteries.

b. Methodology

To evaluate the potential impacts of the Campus Master Plan on archaeological, historical, and tribal cultural resources, the proposed activities of the project were analyzed according to known and potential eligible resources. This analysis was completed in accordance with the provisions and requirements of federal and state laws and regulations governing the identification and management of cultural resources. The analysis of cultural resources impacts is based on substantial research presented in the Archaeological Resources Technical Report (Appendix E) and HRSR (Appendix F) prepared for the project.

c. Project Impact Analysis

Threshold 1:	Would the project cause a substantial adverse change in the significance of a historical resource pursuant to Section 15064.5?

Impact CUL-1 THE CAMPUS MASTER PLAN WOULD ADVERSELY AFFECT HISTORICAL RESOURCES THROUGH THE FULL AND PARTIAL DEMOLITION OF HISTORICAL RESOURCES, RENOVATION/REHABILITATION OF HISTORICAL RESOURCES, AND NEW CONSTRUCTION ADJACENT TO HISTORICAL RESOURCES. THIS IMPACT WOULD BE SIGNIFICANT AND UNAVOIDABLE. FOLLOWING MITIGATION, IMPACTS WOULD STILL BE SIGNIFICANT AND UNAVOIDABLE.

As discussed above in Section 4.4.1, *Environmental Setting*, CSUF includes 13 known historical resources, including one historic district with five contributing buildings and eight individually eligible buildings. The Campus Master Plan proposes new campus development, facilities, housing, and upgrades to support projected population growth and to enable new and expanded program initiatives. Implementation and full build-out of the Campus Master Plan would result in:

1. Full or partial demolition/replacement of historical resources;
2. Renovations, conversion, rehabilitation, or alteration of historical resources that substantially impairs the integrity of the resources;
3. Changes to the immediate surroundings of a historical resource that materially impairs the significance of the resource (through new construction adjacent to historical resources).

Historical resources that would be impacted through implementation of the Campus Master Plan include Titan Gym, Titan Shop/Bookstore, three known historical resources that form part of the Visual Arts Complex, McCarthy Hall, and the Campus Core Historic District. Titan Gym, Titan

Shop/Bookstore and the Visual Arts complex are slated for full demolition and replacement, while McCarthy Hall is slated for upgrades and renovations. Buildings located in the Campus Core Historic District are not proposed to be altered, although construction of a new building within the boundaries of the historic district, and adjacent to other buildings, is proposed.

There are additional on-campus buildings that have not been identified as historic resources but may become eligible for historic designation during the Campus Master Plan planning period (i.e. through 2039). The age of all campus buildings is shown in Figure 4.3-1. There is the potential for new development to adversely affect additional buildings, structures, or other resources that are not identified at the present time.

In examining potential indirect impacts, the *Secretary's Standards* provide guidance recognized by CEQA as mitigating potential adverse impacts caused by a project to below the level of significance. According to the *Secretary's Standards*, new construction in or near historic properties, including districts, should be differentiated but compatible; attention should be devoted to ensuring that new construction is complementary to the historic property but does not create a false sense of history by imitating or replicating a historic building or property. The *Secretary's Standards* include setting, in terms of the character of the surrounding environment, as a character-defining feature that weighs in the analysis of a resource's retention of historic integrity.

Implementation and build-out of the Campus Master Plan could result in substantial adverse changes in the significance of historical resources as there is the potential for new development to adversely affect buildings, structures, or other resources that are known to be or could be historically significant. Campus Master Plan projects could also cause damage to or destruction of historical resources or potential historical resources that have not yet been evaluated. Therefore, impacts on historical resources would be **potentially significant**.

Mitigation Measures

CUL-1 Complete Historic Resources Evaluation and Project-Specific Surveys Prior to Design Phase to Identify Historical Resources

Before altering or otherwise affecting a building, structure, or designed landscape feature that is 45 years old or older, CSUF shall retain a historian or architectural historian who meets the Secretary of the Interior's Professional Qualifications Standards to assess and document the significance of the resource according to the criteria of the National Register of Historic Places (NRHP), California Register of Historical Resources (CRHR) and California Historical Landmarks program.

The qualified historian or architectural historian shall prepare an intensive-level historic resources evaluation. Evaluations shall consider buildings, structures, objects, sites, historic districts, and potential cultural landscapes and shall identify the character-defining features of such resources and other required information on the appropriate Department of Parks and Recreation (DPR) 523 Record Forms, which shall be appended to the evaluation.

The level of documentation for each evaluation shall comply with Public Resources Code Section 5024 and 5024.5 with respect to state-owned historical resources. For resources determined through this evaluation process to meet NRHP/CRHR and/or California Historical Landmark criteria, MM CUL-2 and MM CUL-3 shall be required as early as possible in the project planning and design phase.

If the resource was the subject of a historic resources evaluation meeting the standards of PRC Section 5024 and 5024.5 within the last five (5) years, CUL-1 shall not be required.

For buildings, structures, objects, sites, historic districts, cultural landscapes, and other resources determined through this evaluation process not to meet NRHP/CRHR and/or California Historical Landmark criteria, no further mitigation is required.

CUL-2 Conduct Secretary's Standards Project Review and Analyze Impacts to Historical Resources

For projects that would demolish or alter resources eligible for listing in the NRHP, CRHR, or as a California Historical Landmark, CSUF shall retain a historian or architectural historian who meets the Secretary of the Interior's Professional Qualifications Standards to review and comment upon project plans for conformance with the *Secretary's Standards* and applicable mitigation measures and/or alternatives.

The architectural historian or preservation architect shall provide input to CSUF and the project design team as early as possible to facilitate project compliance with the *Secretary's Standards*, if prudent and feasible. Preservation input will identify project options capable of complying with the *Secretary's Standards* and avoiding, lessening, or mitigating significant adverse impacts to historical resources.

Secretary's Standards project review shall include all project components that would result in a physical change to character-defining features, insofar as these project details are available. If project details remain conceptual at the time of project review, the memorandum shall include design recommendations drawn from the *Secretary's Standards* that would facilitate compliance with the Standards and avoid, lessen, or mitigate significant adverse impacts to historical resources.

In addition, the *Secretary's Standards* project review shall include a section assessing the potential direct and indirect impacts of the proposed project on the historical resource, whether an individual resource or historic district/cultural landscape.

For projects that do not comply with the *Secretary's Standards* and would result in a significant adverse impact to a historical resource, MM CUL-4 shall be required.

CUL-3 PRC-Required SHPO Consultation

For state-owned historical resources, PRC Section 5024 and 5024.5 require SHPO consultation for proposed projects that might impact historical resources eligible for the NRHP, CRHR or as a California Historical Landmarks. These sections of the PRC are designed to give SHPO the opportunity to review and comment on historical resource determinations and proposed projects that might affect such historical resources.

CSUF shall consult with SHPO regarding the potential alteration or demolition of any buildings, structures, objects, sites, historic districts, cultural landscapes, or other campus features that appear eligible for listing in the National Register of Historic Places, the California Register of Historical Resources or as California Historical Landmarks, as documented through CUL-1 or through survey or evaluation. Such consultation shall be completed pursuant to California PRC Sections 5024 and 5024.5 and related guidance published by SHPO.

Following the completion of CUL-1 and/or CUL-2 and as early as possible in the project planning phase, CSUF shall retain an architectural historian or historian meeting the Secretary of the Interior's Professional Qualifications Standards in either architectural history or historic architecture in order to assist in SHPO consultation and compile the required documentation and consultation

materials in compliance with PRC Sections 5024 and 5024.5 and related guidance published by SHPO.

This shall include a formal request for consultation, the intensive-level historic resources evaluation establishing the historic resource status of the property, DPR 523 Record Forms, the appropriate historical background documentation, and a project-specific impacts analysis prepared by the qualified historian or architectural historian.

CUL-4 HABS-Like Documentation

For projects that do not comply with the *Secretary's Standards* and would result in a significant adverse impact to a historical resource, MM CUL-4 shall be required. Prior to the commencement of construction activities, CSUF shall retain a historian or architectural historian who meets the *Secretary of the Interior's Professional Qualifications Standards* to prepare HABS-like documentation for the subject historical resources. The evaluation process shall include the development of appropriate historical background research as context for the assessment of the significance of the structure in the history of the CSU system, CSUF, and the region. The HABS-like package will document in photographs and descriptive and historic narrative the historical resources slated for modification/demolition. Documentation prepared for the package will draw upon primary- and secondary-source research and available studies previously prepared for the project.

The specifications for the HABS-like package follow:

- Photographs: Photographic documentation will focus on the historical resources/features slated for demolition, with overview and context photographs for the campus and adjacent setting. Photographs will be taken of the building using a professional-quality single lens reflex (SLR) digital camera with a minimum resolution of 10 megapixels. Photographs will include context views, elevations/exteriors, architectural details, overall interiors, and interior details (if warranted). Digital photographs will be provided in electronic format.
- Descriptive and Historic Narrative: The historian or architectural historian will prepare descriptive and historic narrative of the historical resources/features slated for demolition. Physical descriptions will detail each resource, elevation by elevation, with accompanying photographs, and information on how the resource fits within the broader campus during its period of significance. The historic narrative will include available information on the campus design, history, architect/contractor/designer as appropriate, area history, and historic context. In addition, the narrative will include a methodology section specifying the name of researcher, date of research, and sources/archives visited, as well as a bibliography. Within the written history, statements shall be footnoted as to their sources, where appropriate.
- Historic Documentation Package Submittal: The electronic package will be assembled by the historian or architectural historian and submitted to CSUF for review and comment. In addition, an electronic version of the HABS package will be provided to the State Office of Historic Preservation for review and comment.

Upon approval by CSUF, one hard-copy version of the historic documentation package will be prepared and deposited with the University archives, Pollak Library Special Collections.

Significance after Mitigation

Implementation of Mitigation Measures CUL-1, CUL-2, CUL-3, and CUL-4 would reduce potentially significant impacts on historic resources because actions would be taken to record, evaluate, avoid,

or otherwise treat the resource appropriately, in accordance with pertinent laws and regulations. However, CEQA Guidelines Section 15126.4(b)(2) notes that in some circumstances, documentation of a historical resource shall not mitigate the effects of demolition of that resource to a less-than-significant level because the historic resources would no longer exist. Therefore, because the potential for permanent loss of a historic resource or its integrity cannot be precluded, the project's impacts on historic resources is concluded to be **significant and unavoidable**.

Threshold 2:	Would the project cause a substantial adverse change in the significance of an archaeological resource pursuant to Section 15064.5?
Threshold 3:	Would the project disturb any human remains, including those interred outside of formal cemeteries?

Impact CUL-2 NO KNOWN ARCHAEOLOGICAL RESOURCES OR HUMAN REMAINS ARE PRESENT ON THE PROJECT SITE. HOWEVER, CONSTRUCTION OF THE PROJECT WOULD INVOLVE GROUND-DISTURBING ACTIVITIES, SUCH AS GRADING AND SURFACE EXCAVATION, WITH THE POTENTIAL TO UNEARTH OR ADVERSELY IMPACT PREVIOUSLY UNIDENTIFIED ARCHAEOLOGICAL RESOURCES OR HUMAN REMAINS. THEREFORE, THE PROJECT WOULD POTENTIALLY CAUSE A SUBSTANTIAL ADVERSE CHANGE IN THE SIGNIFICANCE OF AN ARCHAEOLOGICAL RESOURCE. THIS IS A POTENTIALLY SIGNIFICANT IMPACT THAT CAN BE REDUCED TO LESS THAN SIGNIFICANT WITH MITIGATION.

A project-specific Archaeological Resources Technical Report was completed for the Campus Master Plan by Rincon Consultants, Inc., dated November 2019 (Appendix E). The analysis included in the Archaeological Resources Technical Report is based on records search of California Historical Resource Information System (CHRIS), NRHP, CRHR, California Points of Historical Interest List, the California Historical Landmarks list, the Archaeological Determinations of Eligibility list, and the California State Historic Resources Inventory list. The database review was confirmed with a pedestrian field survey completed on July 15, 2019 (Appendix F).

As stated above under Section 4.4.2.2 *Methodology* for Tribal Cultural Resources, Rincon contacted the NAHC in June 2019 to request a Sacred Lands File (SLF) search of the project site and a contact list of Native Americans who may have knowledge of cultural resources within the area. The SLF search results were negative, and Rincon sent letters to the NAHC-listed contacts and conducted follow-up calls in August 2019. No Native American contacts responded to letters or returned calls expressing any project related concerns (Appendix G). However, CSUF completed additional Native American outreach with members of the Acjachemen Nation in October 2019 by responding to their information request.

As stated in the Archaeological Resources Technical Report, the Native American outreach, and field survey identified no archaeological (prehistoric or historic) resources within the Campus Master Plan area (Appendix E). Implementation of the Campus Master Plan would entail ground-disturbing activities within the boundaries of the CSUF campus, which is fully developed. Such activities could result in unanticipated discovery of archaeological resources or human remains.

Construction activities on the CSUF campus under the Campus Master Plan, including ground clearing, grading, and excavation, could have significant impacts on previously unidentified historical and archaeological resources. The depth of excavation for projects under the Campus Master Plan are undetermined at this time, but may include subsurface work for foundations, footings, and utilities. Pre-construction reconnaissance would be needed due to the possibility for encountering subsurface archaeological resources during construction activities, including site excavation.

Previously unrecorded archaeological resources or human remains, if present within the project site, could be damaged or destroyed during ground disturbance undertaken for project implementation. Adverse physical effects to or destruction of archaeological resources or human remains would result in a significant impact.

Mitigation Measures CUL-5 and CUL-6 are provided to ensure procedures are in place to properly identify, document, and manage archaeological resources and human remains that may be discovered during ground-disturbing activities under the Campus Master Plan. Therefore, potential project impacts to previously unknown archaeological resources and human remains, if encountered, would be reduced to less than significant with mitigation incorporated.

Mitigation Measures

CUL-5 Discovery of Unknown Resources

In the event that cultural resources of Native American origin are identified during construction, all earth-disturbing work in the vicinity of the find shall be temporarily suspended or redirected until an archaeologist meeting the Secretary of the Interior's Professional Qualifications Standards (NPS 1983) has evaluated the nature and significance of the find and an appropriate Native American representative, based on the nature of the find, is consulted. If CSUF determines that the resource is a tribal cultural resource and thus significant under CEQA, a mitigation plan shall be prepared and implemented in accordance with state guidelines and in consultation with Native American groups. The plan shall include avoidance of the resource or, if avoidance of the resource is infeasible, the plan shall outline the appropriate treatment and data recovery plan in coordination with the archeologist and the appropriate Native American tribal representative. The Native American monitor and consulting tribe(s) will be provided an opportunity to participate in the documentation and evaluation of the find. If a data recovery plan and treatment of the unanticipated discovery is required, then the consulting tribe(s) will be provided an opportunity to review and provide input on the plan and treatment.

CUL-6 Discovery of Unknown Human Remains

The discovery of human remains is always a possibility during ground disturbing activities. If human remains are found, the State of California Health and Safety Code Section 7050.5 states that no further disturbance shall occur until the County coroner has made a determination of origin and disposition pursuant to PRC Section 5097.98. In the event of an unanticipated discovery of human remains, the County coroner must be notified immediately. If the human remains are determined to be prehistoric, the coroner shall notify the NAHC, which will determine and notify a MLD. The MLD shall complete the inspection of the site within 48 hours of being granted site access and may recommend scientific removal, and nondestructive analysis of human remains and items associated with Native American burials, pursuant to Mitigation Measure CUL-5.

Significance After Mitigation

Mitigation Measures CUL-5 and CUL-6 ensure construction and ground-disturbing activities would halt in the event previously unknown cultural resources or human remains are unearthed, and such resources would be properly identified and managed. Therefore, project impacts to cultural resources and human remains would be less than significant with implementation of Mitigation Measures CUL-5 and CUL-6.

Tribal Cultural Resources

a. Thresholds of Significance

The significance criteria used to evaluate the project impacts to tribal cultural resources are based on Appendix G of the CEQA Guidelines. A significant impact related to tribal cultural resources would occur if the project would cause a substantial adverse change in the significance of a tribal cultural resource, defined in PRC Section 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is:

1. Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in PRC Section 5020.1(k), or
2. A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in PRC Section 5024.1(c). In applying the criteria set forth in PRC Section 5024.1(c), the lead agency shall consider the significance of the resource to a California Native American tribe.

b. Methodology

Potential impacts on tribal cultural resources are analyzed based on the potential for the project to impact any tribal cultural resources during construction or operation. The significance of a tribal cultural resource and subsequent significance of any impact is determined by, among other things, consideration of whether or not that resource has heritage value to California Native Americans.

Rincon contacted the NAHC on June 21, 2019 to request a SLF search of the project site and a contact list of Native Americans who may have knowledge of cultural resources within the area. The NAHC responded on July 5, 2019, stating that the results of the SLF search were negative. Rincon sent letters to the NAHC-listed contacts and conducted follow-up calls on August 12, 2019. At the request of CSUF, Rincon also emailed Jacque Nunez of the Acjachemen Nation on October 16, 2019, to request information on Native American resources within the project vicinity. No contacts responded to letters or returned calls expressing any project related concerns (Appendix G).

In August 2019, CSUF, as the Lead Agency for this project, initiated formal government-to-government consultation with interested Native American groups in accordance with AB 52. Copies of the Native American outreach correspondence (AB 52 consultation request letters with project information and site map) are provided in Appendix G. Of the six tribal contacts from the Gabrieleño/Tongva Nation who were sent AB 52 consultation notifications, two requests for further consultation were received. CSUF representatives communicated with these two contacts via email, and hosted a consultation meeting with one of the contacts in November 2019. Tribal consultation between the two tribes and CSUF concluded in January 2020 (Appendix G).

CSUF completed additional Native American outreach with Ms. Joyce Stanfield and Ms. Jacque Nunez of the Acjachemen Nation in October 2019, based on their information request on Native American resources within the project vicinity.

c. Project Impact Analysis

Threshold 1 & 2:	Would the project cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code Section 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is: a. Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in PRC Section 5020.1(k)?, or b. A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in PRC Section 5024.1(c). In applying the criteria set forth in PRC Section 5024.1(c), the lead agency shall consider the significance of the resource to a California Native American tribe?

Impact TCR-1 IMPLEMENTATION OF THE PROJECT WOULD INVOLVE GROUND-DISTURBING ACTIVITIES SUCH AS GRADING AND SURFACE EXCAVATION, WITH THE POTENTIAL TO UNEARTH OR ADVERSELY IMPACT PREVIOUSLY UNIDENTIFIED TRIBAL CULTURAL RESOURCES. NO KNOWN TRIBAL CULTURAL RESOURCES ARE PRESENT ON THE PROJECT SITE. THIS IS A POTENTIALLY SIGNIFICANT IMPACT THAT CAN BE REDUCED TO LESS THAN SIGNIFICANT WITH MITIGATION.

As stated above in the Methodology discussion for Section 4.4.2.2, *Tribal Cultural Resources*, of this Draft EIR, no tribal cultural resources were identified in the project area based on a SLF search (Appendix G). CSUF, as Lead Agency, prepared and mailed letters to local California Native Americans in accordance with AB 52 (Appendix G). No tribal cultural resources have been identified from AB 52 consultation efforts and the area of disturbance for the proposed project is not known or expected to contain any tribal cultural resources that would qualify as a historical resource or a unique cultural resource as defined in PRC Section 5020.1(k) or a resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in PRC Section 5024.1(c).

However, ground-disturbing activities associated with projects under the Campus Master Plan could expose previously undiscovered subsurface archaeological resources that may be considered tribal cultural resources and could be adversely affected by the project construction. Such an impact would be considered potentially significant. CSUF and the consulting tribes agreed that, in the event of the discovery of previously unknown cultural resources of tribal or Native American importance during construction activities, Mitigation Measures CUL-5 and CUL-6 would be implemented to reduce potential project impacts to less than significant levels. Therefore, potential project impacts to previously unknown tribal cultural resources and human remains, if encountered, would be reduced to less than significant with mitigation incorporated.

Mitigation Measures

Mitigation Measures CUL-5 and CUL-6, as stated above, are required.

Significance After Mitigation

Mitigation Measures CUL-5 and CUL-6 ensure construction and ground-disturbing activities would halt in the event previously unknown cultural resources or human remains are unearthed, and such resources would be properly identified and managed. Therefore, project impacts to cultural resources and human remains would be less than significant with implementation of Mitigation Measures CUL-5 and CUL-6.

4.4 Energy

This section analyzes the energy impacts of constructing and operating the proposed Campus Master Plan. This analysis is based on Appendix G, Environmental Checklist Form, of the CEQA Guidelines. To assure project decisions consider energy implications, CEQA requires that impact analysis include a discussion of the potential energy impacts of proposed projects, with particular emphasis on avoiding or reducing inefficient, wasteful, and unnecessary consumption of energy.

4.4.1 Setting

a. Existing Energy Setting

Energy use can affect air quality and other natural resources adversely. Energy is primarily categorized in three areas: electricity, used in buildings and cities for lighting and other services; natural gas used for building heating, cooking, and other industrial processes; and fuels used for transportation. Fossil fuels used for any of these types of energy must be burned to create electricity that powers homes and commercial/industrial buildings, to create heat, and to power vehicles. The burning or combusting of fuels releases pollutants and GHG emissions. Many factors affect the level of impact from fuels. When used in transportation, the impact from energy corresponds to the fuel efficiency of cars, trucks, and public transportation; the mode of travel, such as auto, carpool, and public transit; and miles traveled by these modes as well as the type of fuel. Construction and the routine operation and maintenance of transportation infrastructure also consumes energy as do residential, commercial, and industrial land uses. This typically occurs through the use of natural gas for heating, cooking, and industrial processes along with the use of electricity.

Energy Consumption and Sources

Total energy consumption in the U.S. in 2018 was approximately 101.2 quadrillion British thermal units (Btu) (Energy Information Administration [EIA] 2019). Of this, fossil fuels provided approximately 80 percent (EIA 2019a). Petroleum constituted approximately 37 percent, natural gas approximately 31 percent, coal approximately 13 percent, total renewable sources approximately 11 percent, and nuclear electric power approximately 8 percent of energy consumed in the U.S. in 2018 (EIA 2019a). On a per capita basis in 2016, California was ranked the fourth lowest state in terms of energy use (199 million Btu [MBtu] per person), or about 58 percent less than the U.S. average per capita consumption of 344.7 MBtu per person (EIA 2018a). This is attributed to mild weather throughout the state, vehicle fuel efficiency standards, and green building policies.

Energy Supply

The two largest sources of energy produced in California in 2017 were renewable energy sources, at approximately 1,086 trillion Btu and crude oil, at approximately 996 trillion Btu (EIA 2017). Crude oil was used as transportation fuel primarily, with a portion used in industrial processes. In this analysis, renewable energy sources include geothermal, solar, wind, biomass, and hydroelectric energy generation. Other sources of energy produced in California include nuclear electric power, natural gas, and biofuels (EIA 2017).

Electricity

In 2017, California's total electric generation was 292,039 Gigawatt hours (GWh), of which 206,336 GWh was produced in-state (CEC 2018a). California's non-CO_2 emitting electric generation sources accounted for more than 56 percent of the total in-State generation, which was up from 50 percent in 2016. Orange County, where the proposed project is located, consumed approximately 20,061.7 GWh of electricity (CEC 2017). Table 4.4-1 indicates that Orange County accounted for approximately seven percent of the state's electricity generation in 2017 and had a per capita electricity consumption of approximately 6,296.9 kilowatt-hours (kWh).

Table 4.4-1 2017 Orange County Electricity Consumption

County Consumption (GWh)[1]	Percent of Statewide Generation	County Per Capita Consumption (kWh)[1]
20,061.7	7	6,296.9

[1] Electricity consumption is quantified in GWh, while per capita electricity is quantified in kWh.

Sources: CEC 2018b; U.S. Census Bureau 2018

Southern California Edison (SCE) supplies electricity to CSUF. SCE serves approximately 15 million people in a 50,000 square-mile area of central, coastal, and southern California (SCE 2019). SCE owns and operates 118,000 miles of distribution and transmission lines and 1.4 million power poles in order to serve its customers and service areas (SCE 2019). In Table 4.4-2 below, the breakdown energy consumption in SCE by sector shows that commercial and residential uses constitute the greatest users of energy.

Table 4.4-2 Electricity Consumption in the SCE Service Area in 2018

Agriculture and Water Pump	Commercial Building	Commercial Other	Industry	Mining and Construction	Residential	Streetlight	Total Usage
3,150.9	31,165.5	4,310.9	13,218.5	2,359.1	28,617.1	578.0	83,400.0

Notes: All usage expressed in GWh

Source: CEC 2018d

As shown in Table 4.4-2, SCE provided approximately 83,400 GWh, or 83.4 billion kWh, of electricity in 2018. SCE receives its electricity from a number of sources. According to the 2017 Power Content Label, which discloses power sources from retail electricity suppliers, SCE receives its energy from renewables, hydroelectric, natural gas, nuclear, and unspecific sources (CEC 2018c). Table 4.4-3 shows the breakdown of energy resources from SCE compared to California's breakdown of energy sources in 2017. SCE has more renewable energy sources overall compared to California and is dedicated to increasing its renewable energy portfolio into the future. SCE seeks to increase its renewable energy and carbon free energy sources to 80 percent by 2030 (SCE 2017).

Table 4.4-3 SCE 2017 Power Content Mix

Energy Resources	Power Mix	2017 CA Power Mix**
Eligible Renewable	**32%**	**29%**
Biomass & biowaste	0%	2%
Geothermal	8%	4%
Eligible hydroelectric	1%	3%
Solar	13%	10%
Wind	10%	10%
Coal	0%	4%
Large Hydroelectric	8%	15%
Natural Gas	20%	34%
Nuclear	6%	9%
Other	0%	<1%
Unspecified sources of power*	34%	9%
Total	**100%**	**100%**

* "Unspecified sources of power" means electricity from transactions that are not traceable to specific generation sources.

** Percentages are estimated annually by the California Energy Commission based on the electricity sold to California consumers during the identified year.

Source: CEC 2018c

Natural Gas

Natural gas forms a third of energy commodities consumed in California and consumers fall into four sectors: residential, commercial, industrial, and electric power generation. By sector, industrial uses consumed approximately 38 percent of the California's natural gas, followed by approximately 28 percent from electric power generation, approximately 20 percent from residential uses, approximately 11 percent from commercial uses, and approximately 2 percent from transportation uses (EIA 2017).

In 2018, California also consumed about 12,666 million U.S. therms (MMthm), or about 1,177 trillion Btu, of natural gas in 2018 (CEC 2018e). Orange County consumed approximately 575 million MMthm of natural gas in the same year, which accounted for 4.5 percent of the statewide consumption, as detailed in Table 4.4-4.

Table 4.4-4 2018 Orange County Natural Gas Consumption

County Consumption (MMThm)[1]	Percent of Statewide Consumption	County per Capita Consumption (thm)[2]
575.1	4.5	180.5

[1] Natural gas consumption is quantified in million therms (MMThm)

[2] Per capita natural gas consumption is quantified in therms (thm)

Sources: CEC 2018d; U.S. Census Bureau 2018

Southern California Gas Company (SCG) provides natural gas service to CSUF. SCG is the principal distributor of natural gas in Southern California and provides natural gas for residential, commercial, and industrial markets, as well as for electric generation (California Gas and Electric Utilities 2018).

SCG currently projects gas demands in all of its market sectors to decrease at an annual average rate of approximately 0.7 percent from 2018 to 2035 (California Gas and Electric Utilities 2018). This is

due to modest economic growth, California Public Utilities Commission (CPUC)-mandated energy efficiency standards and programs, stricter standards through Title 24 Codes, renewable energy goals, and a decline in commercial and industrial demand (California Gas and Electric Utilities 2018). Table 4.4-5 shows the natural gas consumption by sector in the SCG service area. In 2018, SCG distributed approximately 5,156 MBtu, or 5.1 billion Btu, of which residential and industry sectors constituted the greatest demand.

Table 4.4-5 Natural Gas Consumption in SCG Service Area in 2018

Agriculture and Water Pump	Commercial Building	Commercial Other	Industry	Mining and Construction	Residential	Total Usage
77.6	913.0	74.5	1,714.4	229.2	2,147.4	5,156.1

Notes: All usage expressed in MBtu
Source: CEC 2018f

Petroleum

Petroleum products consumed by the transportation sector in California accounted for roughly 85 percent of California's total petroleum demand in 2017, or approximately 3,124 trillion Btu (EIA 2019b). In 2017, approximately 40 percent of the state's energy consumption was used for transportation activities (EIA 2018b). Most gasoline and diesel fuel sold in California for motor vehicles is refined in California to meet state-specific formulations required by CARB. California's transportation sector, including on-road and rail transportation, consumed roughly 682 million barrels of petroleum fuels in 2017 (EIA 2019b). The TIS (Appendix M) estimated the project would result in 14 daily VMT or 30,922,635 annual VMT.

Alternative Vehicle Fuels

Various statewide regulations and plans encourage alternative fuel use to reduce GHG emissions and criteria pollutant emissions. These include the Low Carbon Fuel Standard and SB 32, as well as myriad other statewide and local air district regulations. Conventional gasoline and diesel may be replaced with different alternative fuels, depending on the capability of the vehicle. Descriptions of the most widely used alternative fuels include the following:

- **Hydrogen** is being explored for use in combustion engines and fuel cell electric vehicles. The interest in hydrogen as an alternative transportation fuel stems from its clean-burning qualities, its potential for domestic production, and the fuel cell vehicle's potential for high efficiency: hydrogen is two to three times more efficient than gasoline. Currently, California has 34 hydrogen refueling stations, and closet to the project site is in Anaheim at 3731 E. La Palma Avenue (U.S. Department of Energy [DOE] 2019). Fuel cells are being explored as a way to use electricity generated on-board the vehicle to power electric motors.
- **Biodiesel** is a renewable alternative fuel that can be manufactured from vegetable oils, animal fats, or recycled restaurant grease. Biodiesel is biodegradable and cleaner-burning than petroleum-based diesel fuel. Generally, biodiesel can run in any diesel engine without alterations, but fueling stations have been slow to make it available. There are eleven biodiesel refueling stations in California, but none in the City of Fullerton or in Orange County (DOE 2019).
- **Electricity** can power electric and plug-in hybrid electric vehicles directly from the power grid. Generally, these vehicles draw from the electricity grid and store the energy in their batteries. CSUF currently has 37 electric vehicle charging stations on campus (CSUF 2019d).

- **Natural Gas** is currently being used in vehicles in two forms: compressed natural gas and liquefied natural gas. Compressed natural gas is used in light-, medium, and heavy-duty vehicles and gets about the same fuel economy. Liquefied natural gas is costly to produce and therefore is used in limited applications, typically in medium- and heavy-duty vehicles (DOE 2018).

Energy and Fuel Efficiency

Though the demand for gasoline and diesel fuel continues to increase, it can be offset partially by efficiency improvements. Land use policies, such as SB 375, encourage infill and growth near transit centers, improvements to fuel efficiency, and replacement of older vehicles with more energy-efficient newer ones all of which will contribute to reduced fuel demand.

b. Regulatory Setting

Programs and policies at the federal, state, and local levels have emerged to bolster the previous trend towards energy efficiency; these are discussed in what follows.

Federal

Energy Policy and Conservation Act

Enacted in 1975, this legislation established fuel economy standards for new light-duty vehicles (autos, pickups, vans, and sport-utility vehicles). The law placed responsibility on the National Highway Traffic and Safety Administration, a part of the U.S. Department of Transportation, for establishing and regularly updating vehicle standards. The U.S. Environmental Protection Agency (USEPA) administers the Corporate Average Fuel Economy program, which determines vehicle manufacturers' compliance with existing fuel economy standards. Since the inception of the program, the average fuel economy for new light-duty vehicles steadily increased from 13.1 miles per gallon (mpg) for the 1975 model year to 30.7 mpg for the 2014 model year and can increase to 54.5 by 2025.

Energy Star Program

In 1992, the USEPA introduced Energy Star as a voluntary labeling program to identify and promote energy-efficient products to reduce GHG emissions. The program applies to major household appliances, lighting, computers, and building components, such as windows, doors, roofs, and heating and cooling systems. Under this program, appliances that meet specification for maximum energy use established under the program are certified to display the Energy Star label. In 1996, the USEPA joined with the Energy Department to expand the program, which now includes qualifying commercial and industrial buildings as well as homes.

Energy Independence and Security Act of 2007

The Energy Independence and Security Act of 2007 was designed to improve vehicle fuel economy and help reduce nationwide dependence on foreign oil. It expands the production of renewable fuels, reducing dependence on oil, and confronting global climate change. Specifically, it increases the supply of alternative fuel sources by setting a mandatory Renewable Fuel Standard by requiring fuel producers to use at least 36 billion gallons of biofuel in 2022 and reduces U.S. demand for oil by setting a national fuel economy standard of 35 miles per gallon by 2020.

Executive Order 13693

In March 2015, EO 13693 *Planning for Federal Sustainability in the Next Decade* was signed into action. The goal of this EO is to expand on the Energy Independence and Security Act of 2007 and maintain federal leadership in sustainability and GHG emission reductions. The EO includes the following goals related to energy:

- 25 percent reduction in energy use intensity (2015 baseline).
- 30 percent of electricity supply from renewable energy by 2025.
- 25 percent of total building energy (electric and alternative energy) from renewable energy by 2025.
- 30 percent reduction of GHG emissions per miles by fiscal year 2025 (compared to 2014 fiscal year baseline).
- Achieve energy net zero by fiscal year 2030 on all federal buildings planned after the 2020 fiscal year

State

California Energy Action Plan

The CEC, in collaboration with CPUC, is responsible for preparing the California Energy Action Plan (EAP), which identifies emerging trends related to energy supply, demand, conservation, public health and safety, and the maintenance of a healthy economy. The 2003 EAP calls for the state to assist in the transformation of the transportation system to improve air quality, reduce congestion, and increase the efficient use of fuel supplies with the least environmental and energy costs. To further this policy, the plan identifies a number of strategies, including assistance to public agencies and fleet operators in implementing incentive programs for zero-emission vehicles and addressing their infrastructure needs; and encouragement of urban designs that reduce VMT and accommodate pedestrian and bicycle access.

In the October 2005 Energy Action Plan II (EAP II), the CEC and CPUC updated their energy policy vision by adding some important dimensions to the policy areas included in the original EAP, such as information on the emerging importance of climate change, transportation-related energy issues, and research and development activities. The CEC adopted an update to the EAP II in February 2008 that supplements the earlier EAPs and examines the state's ongoing actions in the context of global climate change. In 2008, the CEC determined an update to the plan was not needed due to state regulations such as AB 32, the California Global Warming Solutions Act.

California Energy Code

The Building Energy Efficiency Standards were first adopted in 1976 and have been updated periodically since then. The standards contain energy and water efficiency requirements (and indoor air quality requirements) for newly constructed buildings, additions to existing buildings, and alterations to existing buildings. The goal is to reduce energy costs for owners, increase reliability and availability of electricity for the state, improve building occupant comfort, and reduce environmental impact.

Assembly Bill 2076: Reducing Dependence on Petroleum

Pursuant to AB 2076 (Chapter 936, Statutes of 2000), the CEC and CARB prepared and adopted a joint-agency report, *Reducing California's Petroleum Dependence*. Included in this report are recommendations to increase the use of alternative fuels to 20 percent of on-road transportation fuel use by 2020 and 30 percent by 2030, significantly increase the efficiency of motor vehicles, and reduce per capita VMT. One performance-based goal for AB 2076 is to reduce petroleum demand to 15 percent below 2003 demand. Furthermore, in response to the CEC's 2003 and 2005 Integrated Energy Policy Reports, the Governor directed the CEC to take the lead in developing a long-term plan to increase alternative fuel use.

Integrated Energy Policy Report

SB 1389 (Chapter 568, Statutes of 2002) required the CEC to conduct assessments and forecasts of all aspects of energy industry supply, production, transportation, delivery and distribution, demand, and prices. The CEC uses these assessments and forecasts to develop energy policies and recommendations to conserve resources, protect the environment, ensure energy reliability, enhance the State's economy, and protect public health and safety.

Senate Bill X1-2: California Renewable Energy Resources Act

In 2011, the Governor signed SB X1-2, which requires retail sellers of electricity, including investor-owned utilities and community choice aggregators, to provide at least 33 percent of their electricity supply from renewable sources by 2020. The CPUC and CEC implement the statewide Renewable Portfolio Standard (RPS) program through rulemakings and monitoring the activities of electric energy utilities in the State.

Senate Bill 1078: California Renewables Portfolio Standard Program

SB 1078 (Chapter 516, Statutes of 2002), and as expanded under SB X1-2, establishes an RPS for electricity supply. The initial RPS program only required electrical corporations to provide 20 percent of their supply from renewable sources by increasing its total procurement at least one percent each year to reach the 20 percent goal. SB X1-2 expanded this law by making it applicable to all retail sellers of electricity and required procurement from eligible renewable energy resources to 33 percent by 2020.

Senate Bill 350: Clean Energy and Pollution Reduction Act of 2015

The Clean Energy and Pollution Reduction Act of 2015 (SB 350) requires the amount of electricity generated and sold to retail customers per year from eligible renewable energy resources to be increased to 50 percent by December 31, 2030. This act also requires doubling of the energy efficiency savings in electricity and natural gas for retail customers through energy efficiency and conservation by December 31, 2030.

Senate Bill 100

Adopted on September 10, 2018, SB 100 supports the reduction of GHG emissions from the electricity sector by accelerating the state's RPS Program, which was last updated by SB 350 in 2015. SB 100 requires electricity providers to increase procurement from eligible renewable energy resources to 33 percent of total retail sales by 2020, 44 percent by 2024, 60 percent by 2030, and 100 percent by 2045.

Assembly Bill 1493: Reduction of Greenhouse Gas Emissions

AB 1493 (Chapter 200, Statutes of 2002), known as the Pavley Bill, amended Health and Safety Code Sections 42823 and added 43018.5 requiring CARB to develop and adopt regulations that achieve maximum feasible and cost-effective reduction of GHG emissions from passenger vehicles, light-duty trucks, and other vehicles used for noncommercial personal transportation in California.

Assembly Bill 1007: State Alternative Fuels Plan

AB 1007 (Chapter 371, Statutes of 2005) required the CEC to prepare a state plan to increase the use of alternative fuels in California. The CEC prepared the State Alternative Fuels Plan (SAF Plan) in partnership with CARB and in consultation with other federal, state, and local agencies. The SAF Plan presents strategies and actions California must take to increase the use of alternative non-petroleum fuels in a manner that minimizes costs to California and maximizes the economic benefits of in-state production. The SAF Plan assessed various alternative fuels and developed fuel portfolios to meet California's goals to reduce petroleum consumption, increase alternative fuels use, reduce GHG emissions, and increase in-state production of biofuels without causing a significant degradation of public health and environmental quality.

Bioenergy Action Plan, Executive Order S-06-06

EO S-06-06, April 25, 2006, establishes targets for the use and production of biofuels and biopower, and directs State agencies to work together to advance biomass programs in California, while providing environmental protection and mitigation. The EO establishes the following target to increase the production and use of bioenergy, including ethanol and biodiesel fuels made from renewable resources: produce a minimum of 20 percent of its biofuels in California by 2010, 40 percent by 2020, and 75 percent by 2050. EO S-06-06 also calls for the state to meet a target for use of biomass electricity. The 2011 Bioenergy Action Plan identifies those barriers and recommends actions to address them so that the State can meet its clean energy, waste reduction, and climate protection goals. The 2012 Bioenergy Action Plan updates the 2011 Plan and provides a more detailed action plan to achieve the following goals:

- Increase environmentally and economically sustainable energy production from organic waste
- Encourage development of diverse bioenergy technologies that increase local electricity generation, combined heat and power facilities, renewable natural gas, and renewable liquid fuels for transportation and fuel cell applications
- Create jobs and stimulate economic development, especially in rural regions of the State
- Reduce fire danger, improve air and water quality, and reduce waste

Title 24, California Code of Regulations

California Code of Regulations, Title 24, Part 6, is California's Energy Efficiency Standards for Residential and Non-residential Buildings. The CEC established Title 24 in 1978 in response to a legislative mandate to create uniform building codes to reduce California's energy consumption and provide energy efficiency standards for residential and nonresidential buildings. The standards are updated on an approximately three-year cycle to allow consideration and possible incorporation of new efficient technologies and methods.

In 2016, the CEC updated Title 24 standards with more stringent requirements effective January 1, 2017. All buildings for which an application for a building permit is submitted on or after January 1, 2017 must follow the 2016 standards. Energy efficient buildings require less electricity;

therefore, increased energy efficiency reduces fossil fuel consumption and decreases GHG emissions. The building efficiency standards are enforced through the local plan check and building permit process. Local government agencies may adopt and enforce additional energy standards for new buildings as reasonably necessary due to local climatologic, geologic, or topographic conditions, provided these standards exceed those provided in Title 24.

California Green Building Standards Code (2016), California Code of Regulations Title 24, Part 11

California's green building code, referred to as CalGreen, was developed to reduce GHG emissions from buildings, promote environmentally responsible, cost-effective, healthier places to live and work, reduce energy and water consumption, and respond to the environmental directives of the administration. The most recent version of CalGreen (January 2019) lays out the minimum requirements for newly constructed residential and nonresidential buildings to reduce GHG emissions through improved efficiency and process improvements. It also includes voluntary tiers to encourage building practices that improve public health, safety, and general welfare by promoting a more sustainable design. If the project is submitted for building plan check on January 1, 2020 or after, the 2019 code cycle will be effective.

California Air Resources Board

CARB has a number of regulations and standards that seek to limit emissions from mobile sources and pollution from specific types of operation or source pollution. These policies indirectly impact energy consumption. These include:

- In-Use Off-Road Diesel Rule: Imposes limits on idling, restricts the addition of older vehicles, and requires the retirement or replacement of older engines depending on their fleet size category.
- Phase 1 Medium- and Heavy-Duty Engine and Vehicle GHG Emission Standards: establishes standards for new medium- and heavy-duty engines and vehicles sold in California.
- Advanced Clean Cars Plan: Coordinates regulating smog-causing pollutants and GHG emissions through developing more stringent emissions standards for vehicles and improving the number of zero-emission vehicles on the roadways.

California State University Sustainability Policy

CSU's Sustainability Policy was updated in 2014 to further the system's energy conversation and other sustainability measures goals (CSU 2014). The following measures most applicable to energy reductions are:

- **Climate Action Plan**
  - The CSU will encourage and promote the use of alternative transportation and/or alternative fuels to reduce GHG emissions related to university associated transportation, including commuter and business travel.
- **Energy Independence and Procurement**
  - The CSU shall pursue energy procurement and production to reduce energy capacity requirements from fossil fuels and promote energy independence using available economically feasible technology for on-site and/or renewable generation.
  - The CSU will endeavor to exceed the State of California and California Public Utilities Commission RPS sooner than the established goal of procuring 33 percent of its electricity needs from renewable sources by 2020.

- **Energy Conservation and Utility Management**
  - All CSU buildings and facilities, regardless of the source of funding for their operation, will be operated in the most energy efficient manner without endangering public health and safety and without diminishing the quality of education and the academic program.
  - All CSU campuses will continue to identify energy efficiency improvement measures to the greatest extent possible, undertake steps to seek funding for their implementation and, upon securing available funds, expeditiously implement the measures.
  - The CSU will cooperate with federal, state, and local governments and other appropriate organizations in accomplishing energy conservation and utilities management objectives throughout the state; and inform students, faculty, staff and the general public of the need for and methods of energy conservation and utilities management.
  - The CSU will monitor monthly energy and utility usage on all campuses and the Chancellor's Office and will prepare a systemwide annual report on energy utilization and greenhouse gas emissions. The Chancellor's Office will maintain a systemwide energy database in which monthly campus data will be compiled to produce systemwide energy reporting. Campuses will provide the Chancellor's Office the necessary energy and utility data, such as electricity and natural gas consumption; water and sewer usage; fuel consumed by fleet vehicles, boats, and ships; waste disposal for the systemwide database in a timely manner.
  - Each CSU campus is encouraged to develop and maintain a campus-wide integrated strategic energy resource plan, which will include tactical recommendations in the areas of new construction, deferred maintenance, facility renewal, energy projects, water conservation, solid waste management, and an energy management plan. This plan will guide the overall energy program at each campus.
- **Water Conservation**
  - All CSU campuses will pursue water resource conservation to reduce water consumption by 10 percent by 2016, and 20 percent by 2020 including such steps to develop sustainable landscaping, install controls to optimize irrigation water use, reduce water usage in restrooms and showers, and promote the use of reclaimed/recycled water.
- **Sustainable Building Practices**
  - All future CSU new construction, remodeling, renovation, and repair projects will be designed with consideration of optimum energy utilization, low life cycle operating costs, compliance with all applicable energy codes (enhanced Title 24 energy codes) and regulations. In the areas of specialized construction that are not regulated through the current energy codes, such as historical buildings, museums, and auditoriums, the CSU will ensure that these facilities are designed to consider energy efficiency. Energy efficient and sustainable design features in the project plans and specifications will be considered in balance with the academic program needs of the project within the available project budget.
  - Capital Planning, Design and Construction in the Chancellor's Office shall monitor building sustainability/energy performance and maintain information on design best practices to support the energy efficiency goals and guidelines of this policy. The sustainability performance shall be based on LEED principles with consideration to the physical diversity and microclimates within the CSU.
  - The CSU shall design and build all new buildings and major renovations to meet or exceed the minimum requirements equivalent to LEED "Silver." Each campus shall strive to achieve

a higher standard equivalent to LEED "Gold" or "Platinum" within project budget constraints. Each campus may pursue external certification through the LEED process.

- **Physical Plant Management**
  - Each campus shall operate and maintain a comprehensive energy management system that will provide centralized reporting and control of the campus energy related activities.
  - To the extent possible, academic and non-academic programs will be consolidated in a manner to achieve the highest building utilization.
  - All CSU campuses will implement a utilities chargeback system to recover direct and indirect costs of utilities provided to self-supporting and external organizations pursuant to procedures in the Integrated California State University Administrative Manual (ICSUAM).

Energy Use Index

Energy use is the primary metric used by the CSU to track progress toward energy conservation goals, referred to as the Energy Use Index (EUI). EUI represents total annual electricity and natural gas use per square foot of building space, measured in Btus per square foot. To normalize this metric between different CSU campuses, the square footage is adjusted to prorate or remove buildings and structures that are very low or zero energy users, such as parking structures, stadiums, and farm buildings such as barns and storage sheds. The last two CSU EOs on energy and sustainability (i.e., 917 of 2004, 987 of 2006) established goals to reduce Btus per square foot by 15 percent over two consecutive five-year periods.

Executive Order 987

Executive Order 987 is the CSU Policy Statement on Energy Conservation, Sustainable Building Practices, and Physical Plant Management. All CSU's operate under this Executive Order, which sets minimum efficiency standards for new construction and renovations, and establishes operating practices intended to ensure buildings are used in the most energy efficient and sustainable manner possible while still meeting the programmatic needs of the university.

Local

CSUF, as a state entity, is not subject to municipal regulations of local governments for uses on property owned or controlled by CSUF that are in furtherance of the University's education purposes. However, CSUF may consider, for coordination purposes, aspects of local plans and policies for the communities surrounding the campus when it is appropriate and feasible, but it is not bound by those plans and policies in its planning efforts. Therefore, this EIR considers City of Fullerton plans and policies for informational purposes only.

The Fullerton Plan

The Fullerton Plan (2012a), specifically the Air Quality and Climate Change Element, recognizes the importance of achieving the regional air quality objectives. The General Plan seeks to protect the well-being of citizens within the City of Fullerton through improvement of air quality. The City of Fullerton does not have jurisdiction over CSUF; however, CSUF considers aspects of local plans and policies for the communities surrounding the campus when it is appropriate and feasible, although it is not bound by those plans and policies in its planning efforts. The Fullerton Plan includes the following goals and policies that apply to the project:

Goal 5: A balanced system promoting transportation alternatives that enable mobility and an enhanced quality of life.

Policy 5.9: Support projects, programs, policies and regulations to improve – in coordination with the school districts – alternatives to the motorized transport of students by parents to and from school.

Policy 5.16: Support projects, programs, policies and regulations to encourage the development of private and/or public infrastructure facilitating the use of alternative fuel vehicles.

Goal 6: A bicycle-friendly city where bicycling is a safe and convenient alternative to motorized transportation and a recreational opportunity for people of all ages and abilities.

Policy 6.5: Support projects, programs, policies and regulations that make bicycling safer and more convenient for all types of bicyclists.

Goal 22: Participation in regional efforts to address climate change and its local impact.

Policy 22.2: Support regional and subregional efforts to reduce greenhouse gas emissions associated with electrical generation through energy conservation strategies and alternative/ renewable energy programs.

Policy 22.4: Support regional and subregional efforts to reduce emissions associated with solid waste through increased recycling programs and reduced waste strategies.

City of Fullerton Climate Action Plan

The City, as part of The Fullerton Plan, prepared a Climate Action Plan (CAP) (Fullerton 2012b). The purpose of the CAP is to address the main sources of emissions that contribute to global climate change. The CAP includes strategies to reduce GHG emissions, which include measures to conserve energy use in the City. The four reduction strategies are as follows:

- Transportation and Mobility Strategy: Promote a balanced transportation system that promotes the use of public transportation and bicycles, reduces congestion, and helps encourage residents to engage in healthy and active lifestyles.
- Energy Use and Conservation Strategy: Reduce the carbon footprint of municipal operations to serve as a leader for the community and support the construction of buildings that are energy efficient and incorporate clean, renewable energy sources.
- Water Use and Efficiency Strategy: Conserve and protect water resources and promote efficiency through public education.
- Solid Waste Reduction and Recycling Strategy: Manage solid waste generation and diversion in order to achieve a zero-waste future.

4.4.2 Impact Analysis

a. Thresholds of Significance

To determine whether a project would result in a significant impact to Energy, Appendix G of the CEQA Guidelines requires consideration of whether a project would:

1. Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation.
2. Conflict with or obstruct a state or local plan for renewable energy or energy efficiency.

b. Methodology

Construction energy demand was calculated based on information contained in the CalEEMod run prepared for the project's air quality and GHG emissions studies (Appendices 4.2 and 4.5, respectively). Construction energy demand considers diesel fuel consumption associated with operation of construction equipment and vendor/hauling truck trips, as well as gasoline fuel consumption associated with worker trips to and from construction sites. Energy demand for off-road construction equipment is based on anticipated equipment, usage hours, horsepower, load factors, and construction phase duration provided by the CalEEMod output.

Operational energy demand considers transportation-based fuel consumption as well as electricity and natural gas consumption associated with the project. Transportation-based fuel consumption is based on vehicle miles traveled and fleet mix obtained from CalEEMod. Electricity and natural gas consumption were also based on CalEEMod outputs and compared to existing consumption in the SCE and SCG service areas.

c. Impact Analysis

Threshold 1:	Involve the wasteful, inefficient, and unnecessary consumption of energy, especially fossil fuels such as coal, natural gas, and oil, associated with project design, project location, the use of electricity and/or natural gas, and/or the use of fuel by vehicles anticipated to travel to and from the project.

IMPACT E-1 THE PROJECT WOULD UTILIZE ENERGY DURING CONSTRUCTION THROUGH THE OPERATION OF CONSTRUCTION EQUIPMENT. ADDITIONALLY, THE PROJECT WOULD OPERATE WITH AN INCREASED AMOUNT OF ELECTRICITY, NATURAL GAS, AND GASOLINE. HOWEVER, THE PROJECT WOULD COMPLY WITH CARB CONSTRUCTION REGULATIONS AND WOULD OPERATIONALLY ACCOUNT FOR LESS THAN ONE PERCENT OF SCE AND SCG SUPPLIES. GIVEN THE ABOVE CONSIDERATIONS, THE PROJECT WOULD NOT RESULT IN THE WASTEFUL, INEFFICIENT, OR UNNECESSARY CONSUMPTION OF ENERGY RESOURCES DURING CONSTRUCTION OR OPERATION. IMPACTS WOULD BE LESS THAN SIGNIFICANT. NO MITIGATION MEASURES ARE REQUIRED.

Construction Energy Demand

During project construction, energy would be consumed in the form of petroleum-based fuels used to power off-road construction vehicles and equipment on the project site, construction worker travel to and from the project site, and vehicles used to deliver materials to the site. The manufacturing of construction materials would also involve energy use. The California Natural Resources Agency (CNRA) acknowledges that a full lifecycle analysis that would account for energy used in building materials and consumer products will generally not be required (CNRA 2018). Additionally, consistent with CEQA Guidelines Section 15145, this analysis does not evaluate upstream energy use as it is too speculative.

The proposed project would require site preparation and grading; pavement and asphalt installation; building construction; architectural coating; and landscaping and hardscaping. Construction would be typical for the region and building types. The total consumption of gasoline and diesel fuel during project construction was estimated using the assumptions and factors from the CalEEMod run used to estimate construction air emissions in the air quality assessment. Worker trips to and from the project site are assumed to use gasoline fuel from passenger cars and light/medium trucks.

Table 4.4-6 presents the estimated construction phase energy consumption, indicating construction equipment, vendor trips, and worker trips would consume approximately 3,509,178 gallons of fuel over the project construction period. Construction equipment would consume approximately 636,003 gallons of diesel fuel; vendor/haul trips would consume approximately 1,083,982 gallons of diesel fuel; and worker trips would consumer approximately 1,789,193.4 gallons of gasoline fuel over the project's construction period of approximately 16 years. Gasoline and diesel fuel consumption would be spread out over 16 years. This would result in annual diesel consumptions of approximately 107,499.06 gallons and gasoline consumption of approximately 111,824.56 gallons. According to the California Annual Retail Fuel Outlet Report Results (CEC-A15), retail diesel sales in Orange County totaled approximately 55 million gallons, while retail gasoline sales totaled approximately 1.40 billion gallons in 2018 (CEC 2019g). Therefore, annual fuel consumption associated with project construction would account for approximately 0.2 percent of annual retail diesel sales and less than a tenth of a percent of annual retail gasoline sales in Orange County.

Table 4.4-6 Project Construction Fuel Consumption

Fuel Type[1]	Gallons	MBtu[2]
Diesel Fuel (Construction Equipment)[1]	636,003	81,065
Diesel Fuel (Vendor/Haul Trips)[2]	1,083,982	138,164
Other Petroleum Fuel (Worker Trips)[3]	1,789,193	228,051
Total	**3,509,178**	**447,280**

[1]Fuel demand rates for construction equipment, hauling and vendor trips, and worker trips are derived from CalEEMod outputs (Urban Crossroads 2019a), fuel consumptions factors for construction vehicle engines (U.S. EPA 2018a), and fuel consumption data from the (U.S. DOT 2018). See Appendix A for calculations and analysis.

[2]CaRFG CA-GREET 3.0 fuel specification of 109,772 Btu/gallon used to identify conversion rate for fuel energy consumption for worker trips specified above. Low-sulfur Diesel CA-GREET 3.0 fuel specification of 127,460 Btu/gallon used to identify conversion rate for fuel energy consumption for construction equipment specified above (CARB 2018f).

Notes: Totals may not add up precisely due to rounding.

CARB has adopted an airborne toxic control measure to limit heavy-duty motor vehicle idling to reduce public exposure to diesel particulate matter and other toxic air contaminants. This measure prohibits diesel-fueled commercial vehicles greater than 10,000 pounds from idling for more than five minutes at any given time. Construction equipment would be maintained to applicable standards, and construction activity and associated fuel consumption and energy use would be temporary and typical for construction sites.

For the reasons listed above, the proposed project would not involve the inefficient, wasteful, and unnecessary use of energy during construction, and the construction-phase impact related to energy consumption would be less than significant.

Operational Energy Demand

Campus Master Plan implementation would increase area energy demand from greater electricity, natural gas, and gasoline consumption due to an increasing university capacity and overall building square footage. The analysis below conservatively analyzes the energy use from the entire use of the CSUF campus. This analysis conservatively assumes that natural gas and electricity would be used for heating and cooling systems, lighting, appliances, water use, and the overall operation of the project buildings. Gasoline consumption is calculated based on the number of vehicular trips

generated from students and faculty/staff. The estimated number of average daily trips associated with the project from the project's TIS (Appendix M) is used to determine the energy consumption associated with fuel use from the operation of the project. The majority of the fuel consumption would be from vehicles traveling to and from the campus. According to the CalEEMod calculations, the continued operation of CSUF through the year 2039, including the increase in capacity resulting from full buildout of the Campus Master Plan, would result in an estimated 30,922,635 annual VMT. Table 4.4-7 shows the estimated total annual fuel consumption of the project using the estimated VMT with the assumed vehicle fleet mix (Appendix A). One gallon of gasoline is equivalent to approximately 109,786 Btu (CARB 2015), while one gallon of diesel is equivalent to approximately 127,460 Btu (Schremp 2017).

Table 4.4-7 Estimated Project Annual Transportation Energy Consumption

Vehicle Type[1]	Percent of Vehicle Trips[2]	Annual Vehicle Miles Traveled[3]	Average Fuel Economy (miles/gallon)[4]	Total Annual Fuel Consumption (gallons)	Total Fuel Consumption (MBtu)[6]
Passenger Cars	57.0	17,633,849	24.0	734,743	80,664.7
Light/Medium Trucks	35.4	10,937,398	17.4	628,586	69,010.1
Heavy Trucks/Other	7.1	2,196,404	7.4	296,811	32,585.8
Motorcycles	0.5	158,324	43.9[5]	3,606	395.9
Total	**100.0**	**30,925,975**	**–**	**1,663,746**	**182,656.5**

[1] Vehicle classes provided in CalEEMod do not correspond exactly to vehicle classes in DOT fuel consumption data, except for motorcycles. Therefore, it was assumed that passenger cars correspond to the light-duty, short-base vehicle class, light/medium trucks correspond to the light-duty long-base vehicle class, and heavy trucks/other correspond to the single unit, 2-axle 6-tire or more class.

[2] Percent of vehicle trips from Table 4.4 "Fleet Mix" in Air Quality and Greenhouse Gas Impact Study (Appendix A).

[3] Mitigated annual VMT found in Table 4.2 "Trip Summary Information" in Air Quality and Greenhouse Gas Impact Study (Appendix A).

[4] Average Fuel Economy: U.S. Department of Energy, 2018.

[5] U.S. Department of Transportation 2013

[6] CaRFG fuel specification of 109,786 Btu/gallon used to identify conversion rate for fuel energy consumption for vehicle classes specified above (CARB 2015).

Notes: Totals may not add up due to rounding.

Operation of the proposed project would consume approximately 45.1 GWh of electricity per year (Appendix A). As previously mentioned, the campus would continue to be served by SCE, which provided 83,399.9 GWh of electricity in 2018 to its service area. Project electricity consumption would account for less than one percent of the amount of electrical power SCE provides. Therefore, SCE would have sufficient supplies for the project and would not place a significant demand on the electrical supply. Estimated natural gas consumption for the project would be 0.062 MMthm per year (Appendix A). The project's natural gas demand would be served by SCG, which provided 5,156 MMthm per year in 2018. Based on the provided amount of natural gas that SCG distributes, the project would account for less than one percent of SCG supplies. Therefore, SCG would have sufficient supplies for the project.

The Campus Master Plan would contain several energy efficiency design features that would enable CSUF to achieve its target of reaching zero net energy consumption for new or renovated state buildings starting design after 2025 (CSUF 2019b). The project would comply with all building design standards set in California Building Code (CBC) Title 24, which would minimize the wasteful, inefficient, or unnecessary consumption of energy resources during operation**.** CALGreen (California Code of Regulations, Title 24, Part 11) requires implementation of energy efficient light fixtures and

building materials into the design of new construction projects. Furthermore, the 2019 Building Energy Efficiency Standards (CBC Title 24, Part 6) requires newly constructed buildings to meet energy performance standards set by the CEC. As the name implies, these standards are specifically crafted for new buildings to result in energy efficient performance so that the buildings do not result in wasteful, inefficient, or unnecessary consumption of energy. The standards are updated every three years and each iteration is more energy efficient than the previous standards. For example, according to the CEC, nonresidential buildings built with the 2019 standards will use about 30 percent less energy due mainly to lighting upgrades (CEC 2018c). University policy requires buildings to exceed Title 24 by 15 percent or meet energy performance goals (CSU 2013b). CSUF also requires all campus projects to achieve a minimum of Silver rating under the GCBI's LEED program (CSUF 2019d). LEED certified buildings enable projects to achieve zero net energy consumption by requiring integrative designs that help reduce overall energy consumption and efficiently monitor energy consumption levels (USGBC 2018). Furthermore, the project would further reduce its use of nonrenewable energy resources as the electricity generated by renewable resources provided by SCE continues to increase to comply with state requirements through Senate Bill 100, which requires electricity providers to increase procurement from eligible renewable energy resources to 33 percent of total retail sales by 2020, 60 percent by 2030, and 100 percent by 2045.

Mitigation Measures

Mitigation measures are not required.

Significance After Mitigation

Less than significant impacts would occur.

Threshold 2:	Would the project conflict with or obstruct a state or local plan for renewable energy or energy efficiency?

IMPACT E-2 THE CONSTRUCTION AND OPERATION OF NEW BUILDINGS AND BUILDINGS PROPOSED TO BE RENOVATED OR REMODELED UNDER THE CAMPUS MASTER PLAN ARE REQUIRED TO COMPLY WITH APPLICABLE FEDERAL, STATE AND LOCAL POLICIES AND REGULATIONS. ACCORDINGLY, CAMPUS MASTER PLAN BUILDOUT WOULD COMPLY WITH TITLE 24, SB100 AND THE CSU SUSTAINABILITY POLICY AND WOULD NOT CONFLICT WITH OR OBSTRUCT APPLICABLE STATE PLANS RELATED TO RENEWABLE ENERGY OR ENERGY EFFICIENCY. IMPACTS WOULD BE LESS THAN SIGNIFICANT. NO MITIGATION MEASURES ARE REQUIRED.

As discussed above under Regulatory Setting, SB 100 mandates 100 percent clean electricity for California by 2045. Because the project would be powered by the existing electricity grid, the project would eventually be powered by renewable energy mandated by SB 100 and would not conflict with this statewide plan. Additionally, the buildings would also be subject to the latest energy efficiency standards pursuant to Title 24 requirements.

As described above in Regulatory Setting, the City of Fullerton's CAP contains policies targeting energy efficiency. Although the CSU system acts as an autonomous governing body and is not required to comply with the City's CAP, CSUF would be compliant with local policies and incorporate local strategies in an effort to reduce overall energy consumption. As demonstrated in Table 4.4-8, the project would be consistent with the City's CAP Energy policies that are relevant to this project. As such, the project would not conflict with or obstruct a state or local plan for renewable energy or energy efficiency, and there would be no impact.

Table 4.4-8 Project Consistency with Applicable Climate Action Plan Policies

Policies	Project Consistency
Chapter 3: Climate Action Strategies	
Policy E-1: Support regional and sub-regional efforts to reduce greenhouse gas emissions associated with electrical generation through energy conservation strategies and alternative/renewable energy programs.	**Consistent.** The project buildings would be designed and equipped with features that conserve and reduce energy consumption. The buildings would be in compliance with Title 24, SB100, LEED, and the CSU Sustainability Policy.
Policy E-2: Support projects, programs, policies and regulations to encourage energy and resource efficient practices in site and building design for private and public projects.	**Consistent.** Buildings would be designed to implement energy conservation features, such as solar ready infrastructure and additional design features in compliance with Title 24, SB100, LEED, and the CSU Sustainability Policy.
Policy E-3: Prepare guidance to homeowners on energy efficient retrofits of existing dwellings	Not applicable to this project.
Policy E-4: Prepare guidance to homeowners on energy efficient retrofits of existing dwellings	Not applicable to this project.
Policy E-5: Support regional and sub-regional efforts pertaining to community revitalization that are rooted in sustainable development principles.	**Consistent.** All new, renovation, and remodeling activities throughout the duration of the Master Plan would comply with state, local and community sustainability design principles. The university is required to comply with Title 24, SB100, LEED, and the CSU Sustainability Policy.

Source: City of Fullerton 2012b

As part of the CSU system, CSUF is required to abide by the 2014 CSU Sustainability Policy. Policies relating the energy reductions within the CSU Sustainability Policy are listed above under *Regulatory Setting.* In addition to the CSU Sustainability Policy, CSUF must abide by EO-987 which requires CSUF to implement sustainable energy efficient building design features to new construction, remodeling, and renovation that is in compliance with SB100, Title 24 and the most recent LEED principles.

Given required compliance with the above measures, implementation of the Campus Master Plan would not conflict or obstruct with any state or local energy efficiency plan. Impacts would be less than significant.

Mitigation Measures

Mitigation measures are not required.

Significance After Mitigation

Less than significant impacts would occur.

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4.5 Greenhouse Gas Emissions

This section analyzes the potential for the Campus Master Plan to generate excessive GHG emissions and to conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing GHG emissions. The analysis in this section is based upon modeling using the CalEEMod modeling outputs are included in Appendix C of this document.

4.5.1 Setting

a. Climate Change and Greenhouse Gases

Climate change is the observed increase in the average temperature of Earth's atmosphere and oceans along with other substantial changes in climate (such as wind patterns, precipitation, and storms) over an extended period of time. The term "climate change" is often used interchangeably with the term "global warming," but "climate change" is preferred to "global warming" because it helps convey that there are other changes in addition to rising temperatures. The baseline against which these changes are measured originates in historical records identifying temperature changes that have occurred in the past, such as during previous ice ages. The global climate is continuously changing, as evidenced by repeated episodes of substantial warming and cooling documented in the geologic record. The rate of change has typically been incremental, with warming or cooling trends occurring over the course of thousands of years. The past 10,000 years have been marked by a period of incremental warming, as glaciers have steadily retreated across the globe. However, scientists have observed substantial acceleration in the rate of warming during the past 150 years (United Nations Intergovernmental Panel on Climate Change [IPCC] 2014). The understanding of anthropogenic warming and cooling influences on climate has led to a high confidence (95 percent or greater chance) that the global average net effect of human activities has been the dominant cause of warming since the mid-20th century (IPCC 2014).

Gases that absorb and re-emit infrared radiation in the atmosphere are called GHGs. The gases widely seen as the principal contributors to human-induced climate change include carbon dioxide (CO_2), methane (CH_4), nitrous oxides (N_2O), fluorinated gases such as hydrofluorocarbons (HFC) and perfluorocarbons (PFC), and sulfur hexafluoride (SF_6). Water vapor is excluded from the list of GHGs because it only stays in the atmosphere for a short time and its atmospheric concentrations are largely determined by natural processes, such as oceanic evaporation.

Both natural processes and human activities emit GHGs. CO_2 and CH_4 are emitted in the greatest quantities from human activities. Emissions of CO_2 are largely by-products of fossil fuel combustion, whereas CH4 results from off-gassing associated with agricultural practices and landfills. Observations of CO_2 concentrations, globally-averaged temperature, and sea level rise are generally well within the range of the extent of the earlier IPCC projections. The recently observed increases in CH_4 and N_2O concentrations are smaller than those assumed in the scenarios in the previous assessments. Each IPCC assessment has used new projections of future climate change that have become more detailed as the models have become more advanced.

Manmade GHGs, many of which have greater heat-absorption potential than CO_2, include fluorinated gases, such as SF_6 (CalEPA 2006). Different types of GHGs have varying global warming potentials (GWP). The GWP of a GHG is the potential of a gas or aerosol to trap heat in the atmosphere over a specified timescale (generally 100 years). Because GHG absorb different amounts of heat, a common reference gas (CO_2) is used to relate the amount of heat absorbed to

the amount of the gas emissions, referred to as "carbon dioxide equivalent" (CO_2e), and is the amount of a GHG emitted multiplied by its GWP. CO_2 has a 100-year GWP of one. By contrast, CH_4 has a GWP of 25, meaning its global warming effect is 25 times greater than CO_2 on a molecule per molecule basis (IPCC 2007).

The accumulation of GHGs in the atmosphere regulates the earth's temperature. Without the natural heat trapping effect of GHGs, Earth's surface would be about 34°C cooler (CalEPA 2006). However, emissions from human activities, particularly the consumption of fossil fuels for electricity production and transportation, have elevated the concentration of these gases in the atmosphere beyond the level of naturally occurring concentrations.

Greenhouse Gas Inventory

Global

Worldwide anthropogenic emissions of GHG were approximately 46,000 million metric tons (MMT, or gigatonne) of CO_2e in 2010 (IPCC 2014). CO_2 emissions from fossil fuel combustion and industrial processes contributed about 65 percent of total emissions in 2010. Of anthropogenic GHGs, CO_2 was the most abundant accounting for 76 percent of total 2010 emissions. CH_4 emissions accounted for 16 percent of the 2010 total, while N_2O and fluorinated gases account for six and two percent, respectively (IPCC 2014).

Federal

Total U.S. GHG emissions were 6,586.7 MMT CO_2e in 2015 (USEPA 2017). Total U.S. emissions have increased by 3.5 percent since 1990; emissions decreased by 2.3 percent from 2014 to 2015 (USEPA 2017). The decrease from 2014 to 2015 was a result of multiple factors, including: (1) substitution from coal to natural gas consumption in the electric power sector; (2) warmer winter conditions in 2015 resulting in a decreased demand for heating fuel in the residential and commercial sectors; and (3) a slight decrease in electricity demand (USEPA 2017). Since 1990, U.S. emissions have increased at an average annual rate of 0.2 percent. In 2015, the industrial and transportation end-use sectors accounted for 29 percent and 27 percent of CO_2 emissions (with electricity-related emissions distributed), respectively. Meanwhile, the residential and commercial end-use sectors accounted for 16 percent and 17 percent of CO_2 emissions, respectively (USEPA 2017).

California

Based on CARB's California Greenhouse Gas Inventory for 2000-2016, California produced 429.4 MMT CO_2e in 2016 (CARB 2018a). The major source of GHGs in California is associated with transportation, contributing 41 percent of the state's total GHG emissions. The industrial sector is the second largest source, contributing 23 percent of the state's GHG emissions, and electric power accounted for approximately 16 percent (CARB 2018a). California emissions are due in part to its large size and large population compared to other states. However, a factor that reduces California's per capita fuel use and GHG emissions, as compared to other states, is its relatively mild climate. CARB has projected that statewide unregulated GHG emissions for the year 2020 will be 509 MMT CO_2e (CARB 2018b). These projections represent the emissions that would be expected to occur in the absence of any GHG reduction actions.

California State University

The CSU system prepared a CO_2 emissions inventory for 2006 emissions (CSU 2007). The total CSU 2006 CO_2 emissions were determined to be 430,495 tons. This was broken down into 201,821 tons of direct emissions (stationary and mobile sources) and 288,675 tons of indirect emissions (purchased power and steam).

CSUF accounted for emissions of 61,429 metric tons (MT) CO_2e in 2008 (CSUF 2015). This included 39,947 $MTCO_2e$ from mobile emissions, 20,261 $MTCO_2e$ from purchased utilities, and 1,220 $MTCO_2e$ from on-campus stationary sources.

Potential Effects of Climate Change

Globally, climate change has the potential to affect numerous environmental resources through potential impacts related to future air temperatures and precipitation patterns. Scientific modeling predicts that continued GHG emissions at or above current rates would induce more extreme climate changes during the 21st century than were observed during the 20th century. Long-term trends have found that each of the past three decades has been warmer than all the previous decades in the instrumental record, and the decade from 2000 through 2010 has been the warmest. The observed global mean surface temperature for the decade from 2006 to 2015 was approximately 0.87 degrees Celsius (°C) (0.75°C to 0.99°C) higher than the global mean surface temperature over the period from 1850 to 1900. Furthermore, several independently analyzed data records of global and regional Land-Surface Air Temperature (LSAT) obtained from station observations agree that LSAT as well as sea surface temperatures have increased. Due to past and current activities, anthropogenic GHG emissions are increasing global mean surface temperature at a rate of 0.2°C per decade. In addition to these findings, there are identifiable signs that global warming is currently taking place, including substantial ice loss in the Arctic over the past two decades (IPCC 2014 and 2018).

According to *California's Fourth Climate Change Assessment*, statewide temperatures from 1986 to 2016 were approximately 1degrees Fahrenheit (°F) to 2°F higher than those recorded from 1901 to 1960. Potential impacts of climate change in California may include loss in water supply from snowpack, sea level rise, more extreme heat days per year, more large forest fires, and more drought years (State of California 2018a). While there is growing scientific consensus about the possible effects of climate change at a global and statewide level, current scientific modeling tools are unable to predict what local impacts may occur with a similar degree of accuracy. In addition to statewide projections, *California's Fourth Climate Change Assessment* includes regional reports that summarize climate impacts and adaptation solutions for nine regions of the state as well as regionally-specific climate change case studies (State of California 2018a), including for the greater Los Angeles region that includes Orange County where the project is located (State of California 2018b). Below is a summary of some of the potential effects that could be experienced in California and the Los Angeles region as a result of climate change.

Air Quality

Higher temperatures, which are conducive to air pollution formation, could worsen air quality in California. Climate change may increase the concentration of ground-level ozone, but the magnitude of the effect, and therefore its indirect effects, are uncertain. As temperatures have increased in recent years, the area burned by wildfires has increased, and wildfires have been occurring at higher elevations in the Sierra Nevada Mountains (State of California 2018a). If higher temperatures continue to be accompanied by an increase in the incidence and extent of large

wildfires, air quality would worsen. However, if higher temperatures are accompanied by wetter, rather than drier conditions, the rains would tend to temporarily clear the air of particulate pollution and reduce the incidence of large wildfires, thereby ameliorating the pollution associated with wildfires. Additionally, severe heat accompanied by drier conditions and poor air quality could increase the number of heat-related deaths, illnesses, and asthma attacks (California Natural Resources Agency 2009).

In the Los Angeles region, changes in meteorological conditions under climate change will affect future air quality. Regional stagnation conditions may occur more often in the future, which would increase pollutant concentrations (State of California 2018b). Hotter future temperatures will act to increase surface ozone concentrations both due to chemistry producing more ozone and higher rates of biogenic emissions, while increases of water vapor also influence chemistry by increasing ozone production in already polluted areas

Water Supply

Analysis of paleoclimatic data (such as tree-ring reconstructions of stream flow and precipitation) indicates a history of naturally and widely varying hydrologic conditions in California and the west, including a pattern of recurring and extended droughts. Uncertainty remains with respect to the overall impact of climate change on future precipitation trends and water supplies in California. For example, many southern California cities have experienced their lowest recorded annual precipitation twice within the past decade; however, in a span of only two years, Los Angeles experienced both its driest and wettest years on record (California Department of Water Resources [DWR] 2008). This uncertainty regarding future precipitation trends complicates the analysis of future water demand, especially where the relationship between climate change and its potential effect on water demand is not well understood. However, the average early spring snowpack in the western United States, including the Sierra Nevada Mountains, decreased by about 10 percent during the last century. During the same period, sea level rose over 5.9 inches along the central and southern California coast (State of California 2018a). The Sierra snowpack provides the majority of California's water supply by accumulating snow during wet winters and releasing it slowly during dry springs and summers. A warmer climate is predicted to reduce the fraction of precipitation falling as snow and result in less snowfall at lower elevations, thereby reducing the total snowpack (DWR 2008; State of California 2018a). The State of California projects that average spring snowpack in the Sierra Nevada and other mountain catchments in central and northern California will decline by approximately 66 percent from its historical average by 2050 (State of California 2018a).

Like the rest of the State, the Los Angeles region is expected to face a challenging combination of decreased water supply and increased water demand (State of California 2018b). Greater interannual variability of rainfall and sharp decreases in snowpack will create surface water limitations for the region. Although the effect of climate change on average precipitation in the region is still unclear, more frequent occurrences of extreme events similar to the 2011-2016 drought could significantly decrease groundwater recharge, which is essential for the sustainability of agriculture in the region since the vast majority of water used in agriculture in the region is groundwater from local wells. Furthermore, higher temperatures mean that dry years will more quickly develop into severe drought conditions.

Hydrology and Sea Level Rise

As discussed above, climate change could potentially affect the amount of snowfall, rainfall, and snow pack; the intensity and frequency of storms; flood hydrographs (flash floods, rain or snow

events, coincidental high tide and high runoff events); sea level rise and coastal flooding; coastal erosion; and the potential for salt water intrusion. Climate change has the potential to induce substantial sea level rise in the coming century (State of California 2018a). The rising sea level increases the likelihood and risk of flooding. The rate of increase of global mean sea levels over the 2001-2010 decade, as observed by satellites, ocean buoys and land gauges, was approximately 3.2 mm per year, which is double the observed 20th century trend of 1.6 mm per year (World Meteorological Organization [WMO] 2013). As a result, global mean sea levels averaged over the last decade were about 8 inches higher than those of 1880 (WMO 2013). Sea levels are rising faster now than in the previous two millennia, and the rise is expected to accelerate, even with robust GHG emission control measures. The most recent IPCC report predicts a mean sea–level rise of 10 to 37 inches by 2100 (IPCC 2018). A rise in sea levels could completely erode 31 to 67 percent of southern California beaches, result in flooding of approximately 370 miles of coastal highways during 100-year storm events, jeopardize California's water supply due to salt water intrusion, and induce groundwater flooding and/or exposure of buried infrastructure (State of California 2018a). In addition, increased CO_2 emissions can cause oceans to acidify due to the carbonic acid it forms. Increased storm intensity and frequency could affect the ability of flood-control facilities, including levees, to handle storm events.

In the Los Angeles region, despite small changes in average precipitation, dry and wet extremes are both expected to increase. By the late 21st century, the wettest day of the year is expected to increase across most of the region. Increased frequency and severity of atmospheric river events are also projected to occur for this region.

Agriculture

California has a $50 billion annual agricultural industry that produces over a third of the country's vegetables and two-thirds of the country's fruits and nuts (California Department of Food and Agriculture 2018). Higher CO_2 levels can stimulate plant production and increase plant water-use efficiency. However, if temperatures rise and drier conditions prevail, certain regions of agricultural production could experience water shortages of up to 16 percent; water demand could increase as hotter conditions lead to the loss of soil moisture; crop-yield could be threatened by water-induced stress and extreme heat waves; and plants may be susceptible to new and changing pest and disease outbreaks (State of California 2018a). In addition, temperature increases could change the time of year certain crops, such as wine grapes, bloom or ripen, and thereby affect their quality (California Climate Change Center 2006).

As described above, in the Los Angeles region more frequent droughts could significantly decrease groundwater recharge and therefore impact agricultural operations that use groundwater from local wells (State of California 2018b). This and other climate effects can contribute to higher food prices and shortages. In addition, pest and disease issues with crops are anticipated to increase.

Ecosystems and Wildlife

Climate change and the potential resulting changes in weather patterns could have ecological effects on a global and local scale. Increasing concentrations of GHGs are likely to accelerate the rate of climate change. Scientists project that the annual average maximum daily temperatures in California could rise by 4.4 to 5.8°F in the next 50 years and by 5.6 to 8.8°F in the next century (State of California 2018a). Soil moisture is likely to decline in many regions, and intense rainstorms are likely to become more frequent. Rising temperatures could have four major impacts on plants and animals related to (1) timing of ecological events; (2) geographic distribution and range; (3) species'

composition and the incidence of nonnative species within communities; and (4) ecosystem processes, such as carbon cycling and storage (Parmesan 2006; State of California 2018a).

Many of the impacts identified above would impact ecosystems and wildlife in the Los Angeles region. Increases in wildfire would further remove sensitive habitat; increased severity in droughts would potentially starve plants and animals of water; and sea level rise will affect sensitive coastal ecosystems.

b. Regulatory Setting

Federal

The U.S. Supreme Court in *Massachusetts et al. v. Environmental Protection Agency et al*. ([2007] 549 U.S. 05-1120) held that the USEPA has the authority to regulate motor-vehicle GHG emissions under the federal Clean Air Act. The USEPA issued a Final Rule for mandatory reporting of GHG emissions in October 2009. This Final Rule applies to fossil fuel suppliers, industrial gas suppliers, direct GHG emitters, and manufacturers of heavy-duty and off-road vehicles and vehicle engines and requires annual reporting of emissions. In 2012, the USEPA issued a Final Rule that establishes the GHG permitting thresholds that determine when CAA permits under the New Source Review Prevention of Significant Deterioration (PSD) and Title V Operating Permit programs are required for new and existing industrial facilities.

In 2014, the U.S. Supreme Court in *Utility Air Regulatory Group v. EPA* (134 S. Ct. 2427 [2014]) held that USEPA may not treat GHGs as an air pollutant for purposes of determining whether a source is a major source required to obtain a PSD or Title V permit. The Court also held that PSD permits that are otherwise required (based on emissions of other pollutants) may continue to require limitations on GHG emissions based on the application of BACT.

State

Assembly Bill 1493

AB 1493 (2002), California's Advanced Clean Cars program (referred to as Pavley), requires CARB to develop and adopt regulations to achieve "the maximum feasible and cost-effective reduction of GHG emissions from motor vehicles." On June 30, 2009, USEPA granted the waiver of CAA preemption to California for its GHG emission standards for motor vehicles beginning with the 2009 model year. Pavley I regulates model years from 2009 to 2016 and Pavley II, which is now referred to as "LEV (Low Emission Vehicle) III GHG", regulates model years from 2017 to 2025. The Advanced Clean Cars program coordinates the goals of the LEV, Zero Emissions Vehicles (ZEV), and Clean Fuels Outlet programs, and would provide major reductions in GHG emissions. By 2025, when the rules will be fully implemented, new automobiles will emit 34 percent fewer GHGs and 75 percent fewer smog-forming emissions from their model year 2016 levels (CARB 2011).

Assembly Bill 32

California's major initiative for reducing GHG emissions is outlined in AB 32, the "California Global Warming Solutions Act of 2006," which was signed into law in 2006. AB 32 codifies the statewide goal of reducing GHG emissions to 1990 levels by 2020 and requires CARB to prepare a Scoping Plan that outlines the main State strategies for reducing GHGs to meet the 2020 deadline. In addition, AB 32 requires CARB to adopt regulations to require reporting and verification of statewide GHG

emissions. Based on this guidance, CARB approved a 1990 statewide GHG level and 2020 limit of 427 million $MTCO_2e$. The Scoping Plan was approved by CARB on December 11, 2008 and included measures to address GHG emission reduction strategies related to energy efficiency, water use, and recycling and solid waste, among other measures. Many of the GHG reduction measures included in the Scoping Plan (e.g., Low Carbon Fuel Standard, Advanced Clean Car standards, and Cap-and-Trade) have been adopted since approval of the Scoping Plan.

In May 2014, CARB approved the first update to the AB 32 Scoping Plan. The 2013 Scoping Plan Update defined CARB's climate change priorities for the next five years and set the groundwork to reach post-2020 statewide goals. The update highlighted California's progress toward meeting the "near-term" 2020 GHG emission reduction goals defined in the original Scoping Plan. It also evaluated how to align the State's longer-term GHG reduction strategies with other State policy priorities, including those for water, waste, natural resources, clean energy, transportation, and land use (CARB 2018c).

Senate Bill 32

SB 32, signed into law on September 8, 2016, extends AB 32 by requiring the State to further reduce GHGs to 40 percent below 1990 levels by 2030 (the other provisions of AB 32 remain unchanged). On December 14, 2017, CARB adopted the 2017 Scoping Plan, which provides a framework for achieving the 2030 target. The 2017 Scoping Plan relies on the continuation and expansion of existing policies and regulations, such as the Cap-and-Trade Program, as well as implementation of recently adopted policies and policies, such as SB 350 and SB 1383 (see below). The 2017 Scoping Plan also puts an increased emphasis on innovation, adoption of existing technology, and strategic investment to support its strategies. As with the 2013 Scoping Plan Update, the 2017 Scoping Plan does not provide project-level thresholds for land use development. Instead, it recommends that local governments adopt policies and locally-appropriate quantitative thresholds consistent with statewide per capita goals of six $MTCO_2e$ by 2030 and two $MTCO_2e$ by 2050 (CARB 2017). As stated in the 2017 Scoping Plan, these goals may be appropriate for plan-level analyses (city, county, subregional, or regional level), but not for specific individual projects because they include all emissions sectors in the State (CARB 2017).

Senate Bill 100

Adopted on September 10, 2018, SB 100 supports the reduction of GHG emissions from the electricity sector by accelerating the State's Renewables Portfolio Standard Program, which was last updated by SB 350 in 2015. SB 100 requires electricity providers to increase procurement from eligible renewable energy resources to 33 percent of total retail sales by 2020, 60 percent by 2030, and 100 percent by 2045.

Senate Bill 97

SB 97, signed in August 2007, acknowledges that climate change is an environmental issue that requires analysis in CEQA documents. In March 2010, the CNRA adopted amendments to the CEQA Guidelines for the feasible mitigation of GHG emissions or the effects of GHG emissions. The adopted guidelines give lead agencies the discretion to set quantitative or qualitative thresholds for the assessment and mitigation of GHG and climate change impacts.

Senate Bill 375

SB 375, signed in August 2008, enhances the State's ability to reach AB 32 goals by directing CARB to develop regional GHG emission reduction targets to be achieved from passenger vehicles by 2020 and 2035. In addition, SB 375 directs each of the State's 18 major Metropolitan Planning Organizations (MPOs) to prepare a "sustainable communities strategy" (SCS) that contains a growth strategy to meet these emission targets for inclusion in the Regional Transportation Plan (RTP). On March 22, 2018, CARB adopted updated regional targets for reducing GHG emissions from 2005 levels by 2020 and 2035. SCAG was assigned targets of an 8 percent reduction in GHGs from transportation sources by 2020 and a 19 percent reduction in GHGs from transportation sources by 2035. In the SCAG region, SB 375 also provides the option for the coordinated development of subregional plans by the subregional councils of governments and the county transportation commissions to meet SB 375 requirements.

Senate Bill 1383

Adopted in September 2016, SB 1383 requires the CARB to approve and begin implementing a comprehensive strategy to reduce emissions of short-lived climate pollutants. The bill requires the strategy to achieve the following reduction targets by 2030:

- Methane – 40 percent below 2013 levels
- Hydrofluorocarbons – 40 percent below 2013 levels
- Anthropogenic black carbon – 50 percent below 2013 levels

The bill also requires the California Department of Resources, Recycling, and Recovery, in consultation with CARB, to adopt regulations that achieve specified targets for reducing organic waste in landfills. For more information on the Senate Bills, Assembly Bills, Executive Orders, and reports discussed above, and to view reports and research referenced above, please refer to the following websites: www.climatechange.ca.gov and www.arb.ca.gov/cc/cc.htm.

Executive Order B-55-18

On September 10, 2018, Governor Brown issued Executive Order B-55-18, which established a new statewide goal of achieving carbon neutrality by 2045 and maintaining net negative emissions thereafter. This goal is in addition to the existing statewide GHG reduction targets established by SB 375, SB 32, SB 1383, and SB 100.

California Integrated Waste Management Act (Assembly Bill 341)

The California Integrated Waste Management Act of 1989, as modified by AB 341, requires each jurisdiction's source reduction and recycling element to include an implementation schedule that shows: (1) diversion of 25 percent of all solid waste by January 1, 1995, through source reduction, recycling, and composting activities; (2) diversion of 50 percent of all solid waste on and after January 1, 2000; and (3) diversion of 75 percent of all solid waste by 2020, and annually thereafter. CalRecycle is required to develop strategies to implement AB 341, including source reduction.

California Building Standards Code

The California Code of Regulations (CCR), Title 24, is referred to as the California Building Code, or CBC. It consists of a compilation of several distinct standards and codes related to building construction including plumbing, electrical, interior acoustics, energy efficiency, handicap

accessibility, and so on. The CBC's energy efficiency and green building standards are outlined below.

PART 6 – BUILDING ENERGY EFFICIENCY STANDARDS

The CCR, Title 24, Part 6 is the Building Energy Efficiency Standards. This code, originally enacted in 1978, establishes energy-efficiency standards for residential and non-residential buildings in order to reduce California's energy demand. The Building Energy Efficiency Standards is updated periodically to incorporate and consider new energy-efficiency technologies and methodologies as they become available. New construction and major renovations must demonstrate their compliance with the current Building Energy Efficiency Standards through submission and approval of a Title 24 Compliance Report to the local building permit review authority and the California Energy Commission (CEC).

The 2019 standards move toward cutting energy use in new homes by more than 50 percent and will require installation of solar photovoltaic systems for single-family homes and multifamily buildings of three stories and less. The 2019 standards focus on four key areas: (1) smart residential photovoltaic systems; (2) updated thermal envelope standards (preventing heat transfer from the interior to exterior and vice versa); (3) residential and nonresidential ventilation requirements; (4) and nonresidential lighting requirements (CEC 2018a). Under the 2019 standards, nonresidential buildings will be 30 percent more energy efficient compared to the 2016 standards, and single-family homes will be 7 percent more energy efficient (CEC 2018b). When accounting for the electricity generated by the solar photovoltaic system, single-family homes would use 53 percent less energy compared to homes built to the 2016 standards (CEC 2018b).

PART 11 – CALIFORNIA GREEN BUILDING STANDARDS

The California Green Building Standards Code, referred to as CALGreen, was added to Title 24 as Part 11 first in 2009 as a voluntary code, which then became mandatory effective January 1, 2011 (as part of the 2010 CBC). The 2016 CALGreen institutes mandatory minimum environmental performance standards for all ground-up new construction of non-residential and residential structures. It also includes voluntary tiers (I and II) with stricter environmental performance standards for these same categories of residential and non-residential buildings. Local jurisdictions must enforce the minimum mandatory Green Building Standards and may adopt additional amendments for stricter requirements.

The mandatory standards require:

- 20 percent reduction in indoor water use relative to specified baseline levels;
- 50 percent construction/demolition waste diverted from landfills;
- Inspections of energy systems to ensure optimal working efficiency;
- Low-pollutant emitting exterior and interior finish materials such as paints, carpets, vinyl flooring, and particleboards;
- Dedicated circuitry to facilitate installation of EV charging stations in newly constructed attached garages for single-family and duplex dwellings; and
- Installation of EV charging stations at least three percent of the parking spaces for all new multi-family developments with 17 or more units.

The voluntary standards require:

- Tier I—15 percent improvement in energy requirements, stricter water conservation requirements for specific fixtures, 65 percent reduction in construction waste, 10 percent recycled content, 20 percent permeable paving, 20 percent cement reduction, cool/solar reflective roof; and
- Tier II—30 percent improvement in energy requirements, stricter water conservation requirements for specific fixtures, 75 percent reduction in construction waste, 15 percent recycled content, 30 percent permeable paving, and 30 percent cement reduction, cool/solar reflective roof.

Similar to the compliance reporting procedure for demonstrating Building Energy Efficiency Standards compliance in new buildings and major renovations, compliance with the CalGreen water-reduction requirements must be demonstrated through completion of water use reporting forms for new low-rise residential and non-residential buildings. Buildings must demonstrate a 20 percent reduction in indoor water use by either showing a 20 percent reduction in the overall baseline water use as identified in CalGreen or a reduced per-plumbing-fixture water use rate.

California State University

CSU's Sustainability Policy was updated in 2014 to further the system's energy conversation and other sustainability measures goals (CSU 2014). The following measures most applicable to GHG emissions and energy use are:

- **Climate Action Plan**
  - The CSU will strive to reduce systemwide facility GHG emissions to 1990 levels, or below, by 2020 consistent with AB 32, California's Global Warming Solutions Act of 2006 (HSC Section 38550). Emissions will include both State and auxiliary organization purchases of electricity and natural gas; fleet, marine vessel usage; and other emissions the university or self-support entity has direct control over. The Chancellor's Office staff will provide the baseline 1990 facility emission levels (for purchased electricity and natural gas) for the campuses that existed at that time and assist campuses added to the CSU after 1990 to determine their appropriate baseline.
  - The CSU will strive to reduce facility GHG emissions to 80 percent below 1990 levels by 2040. Campus tracking and reporting of their GHG inventory will be grounded in the ACUPCC guidelines or equivalent, with consideration to campus requested improvements. Metrics will include GHG emissions per FTE.
  - The CSU will encourage and promote the use of alternative transportation and/or alternative fuels to reduce GHG emissions related to university associated transportation, including commuter and business travel.
- **Energy Independence and Procurement**
  - The CSU shall pursue energy procurement and production to reduce energy capacity requirements from fossil fuels and promote energy independence using available economically feasible technology for on-site and/or renewable generation.
- **Water Conservation**
  - All CSU campuses will pursue water resource conservation to reduce water consumption by 10 percent by 2016, and 20 percent by 2020 including such steps to develop sustainable landscaping, install controls to optimize irrigation water use, reduce water usage in restrooms and showers, and promote the use of reclaimed/recycled water.

- **Waste Management**
  - Campuses shall seek to reduce the solid waste disposal rate by 50 percent (PRC Section 42921) by 2016, by 80 percent by 2020, and move to zero waste.
- **Sustainable Building Practices**
  - Campuses shall seek to reduce the solid waste disposal rate by 50 percent (PRC Section 42921) by 2016, by 80 percent by 2020, and move to zero waste.
  - The CSU shall design and build all new buildings and major renovations to meet or exceed the minimum requirements equivalent to LEED "Silver." Each campus shall strive to achieve a higher standard equivalent to LEED "Gold" or "Platinum" within project budget constraints.

CSU released *Sustainability in the California State University: The First Assessment of the 2014 Sustainability Policy* in 2017 (CSU 2017). The report highlighted the progress and achievements made through the first three years of CSU's Sustainability Policy. The report highlights that CSUF would achieve carbon neutrality by 2050.

American College and University Presidents' Climate Commitment

In 2012, CSUF signed the American College and University Presidents' Climate Commitment (ACUPCC), agreeing to complete an emissions inventory, set target dates and interim milestones for becoming climate neutral, take steps to reduce GHG emissions, and prepare public progress reports (CSUF 2015). This also committed CSUF to achieve carbon neutrality by 2050 from all sources (Scope 1, 2, and 3) by 2050. Scope 1 are direct emissions (e.g., use of natural gas on-site); Scope 2 are indirect emissions (e.g., purchased electricity); and Scope 3 emissions are emissions not under direct control (e.g., commuting and business travel).

Regional and Local

Southern California Association of Governments (SCAG)

SB 375 requires metropolitan planning organizations to prepare an SCS as part of their RTP. The Southern California Association of Governments (SCAG) Regional Council adopted the 2012 RTP/SCS in April 2012 (SCAG 2012), and the 2016–2040 RTP/SCS (2016 RTP/SCS) in April 2016. Both the 2012 and 2016 RTP/SCSs establish a development pattern for the region that, when integrated with the transportation network and other policies and measures, would reduce GHG emissions from transportation (excluding goods movement) (SCAG 2012, 2016). Specifically, the 2012 RTP/SCS links the goals of sustaining mobility with the goals of fostering economic development; enhancing the environment; reducing energy consumption; promoting transportation-friendly development patterns; and encouraging all residents affected by socioeconomic, geographic, and commercial limitations to be provided with fair access. The 2012 and 2016 RTP/SCSs do not require that local general plans, specific plans, or zoning be consistent with SB 375, but provide incentives for consistency for governments and developers.

The Fullerton Plan

The Fullerton Plan details that the City is committed to implementing policies that address energy and resource conservation in order to help resolve the global issue of climate change. The following goals and policies are applicable to the project:

Goal 5: A balanced system promoting transportation alternatives that enable mobility and an enhanced quality of life

Policy 5.2: Support regional and subregional efforts to increase alternatives to and infrastructure supporting reduction of single occupant vehicle trips.

Policy 5.13: Support projects, programs, policies and regulations to encourage transit improvements that incentivize investment and link neighborhoods, while fitting the scale and traffic patterns of the surrounding area.

Policy 5.16: Support projects, programs, policies and regulations to encourage the development of private and/or public infrastructure facilitating the use of alternative fuel vehicles.

Goal 6: A bicycle-friendly city where bicycling is a safe and convenient alternative to motorized transportation and a recreational opportunity for people of all ages and abilities/

Policy 6.7: Support projects, programs, policies, and regulations to reduce negative impacts to and increase opportunities for bicycle users and the bicycle network in private and public development projects.

Policy 6.12: Support projects, programs, policies, and regulations to provide convenient bicycle parking and other bicycle facilities in existing and potential high demand locations within the City, such as educational institutions, parks, business districts, transit stops, retail, commercial and employment centers.

Policy 6.14: Support projects, programs, policies and regulations to consider bicycle friendly design using new technologies and innovative treatments.

Goal 19: An adequate, safe, and reliable water supply.

Policy 19.3: Support projects, programs, policies and regulations to encourage the use of new technologies which reduce water use.

Policy 19.3: Support projects, programs, policies and regulations to encourage the use of new technologies which reduce water use.

Policy 19.7: Support projects, programs, policies and regulations to encourage water efficient practices in site and building design for private and public projects.

Goal 22: Participation in regional efforts to address climate change and its local impact.

Policy 22.1: Support regional and subregional efforts to reduce greenhouse gas emissions associated with transportation through land use strategies and policies, transportation system improvements, and transportation demand management programs.

Policy 22.2: Support regional and subregional efforts to reduce greenhouse gas emissions associated with electrical generation through energy conservation strategies and alternative/renewable energy programs.

Policy 22.9: Support projects which voluntarily desire to implement site and/or building design features exceeding minimum requirements to reduce project greenhouse gas emissions.

Goal 23: Safe and efficient management of waste.

Policy 23.3: Support projects, programs, policies and regulations to promote practices to reduce the amount of waste disposed in landfills.

Policy 23.7: Support projects, programs, policies and regulations to consider project level solid waste management needs at the site and building design stages.

4.5.2 Impact Analysis

a. Thresholds of Significance

To determine whether a project would result in a significant impact to air quality, Appendix G of the CEQA Guidelines requires consideration of whether a project would:

- Generate GHG emissions, either directly or indirectly, that may have a significant impact on the environment
- Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of GHGs

Individual projects do not generate sufficient GHG emissions to substantially influence climate change. However, physical changes caused by a project can contribute incrementally to cumulative effects that may be significant, even if individual changes resulting from a project are limited. The issue of climate change typically involves an analysis of whether a project's contribution towards an impact would be cumulatively considerable. "Cumulatively considerable" means that the incremental effects of an individual project are significant when viewed in connection with the effects of past projects, other current projects, and probable future projects (CEQA Guidelines, Section 15064[h][1]).

CSUF has not adopted its own numeric threshold of significance for determining impacts for GHG emissions. In guidance provided by the SCAQMD's GHG CEQA Significance Threshold Working Group in September 2010, SCAQMD considered a tiered approach to determine the significance of residential and commercial projects. The draft tiered approach is outlined in meeting minutes dated September 29, 2010 (SCAQMD 2010):

- **Tier 1.** If the project is exempt from further environmental analysis under existing statutory or categorical exemptions, there is a presumption of less than significant impacts with respect to climate change. If not, then the Tier 2 threshold should be considered.
- **Tier 2.** Consists of determining whether or not the project is consistent with a GHG reduction plan that may be part of a local general plan, for example. The concept embodied in this tier is equivalent to the existing concept of consistency in CEQA Guidelines, Section 15064(h)(3), 15125(d) or 15152(a). Under this Tier, if the proposed project is consistent with the qualifying local GHG reduction plan, it is not significant for GHG emissions. If there is not an adopted plan, then a Tier 3 approach would be appropriate.
- **Tier 3.** Establishes a screening significance threshold level to determine significance. The Working Group has provided a recommendation of 3,000 $MTCO_2e$ per year for commercial projects.
- **Tier 4.** Establishes a service population threshold to determine significance. The Working Group has provided a recommendation of 4.8 $MTCO_2e$ per year per service population for land use projects.

The applicable threshold for the proposed project would be an efficiency threshold (per year per service population) as described under Tier 4. This number was derived using 2020 inputs (SCAQMD 2010); therefore, with a project buildout year of 2039, this analysis develops a project-

specific efficiency threshold for 2039 to determine the significance of the project's GHG emissions. In the recently signed EO B-55-18, which identifies a new goal of carbon neutrality by 2045 and supersedes the goal established by EO S-3-05, CARB has been tasked with including a pathway toward the EO B-55-18 carbon neutrality goal in the next Scoping Plan update. While State and regional regulations of energy and transportation systems, along with the State's Cap and Trade program, are designed to achieve most of the reductions needed to meet long-term targets, local governments can do their fair share toward meeting the State's targets by siting and approving projects that accommodate planned population growth that are GHG-efficient. The Association of Environmental Professionals (AEP) Climate Change Committee recommends that CEQA GHG analyses evaluate project emissions in light of the trajectory climate change legislation and assess their "substantial progress" toward achieving long-term reduction targets identified in available plans, legislation, or EOs. Consistent with AEP Climate Change Committee recommendations, GHG impacts that would occur after codified targets are analyzed in terms of whether the project would impede "substantial progress" toward meeting the reduction goal identified in EO B-55-18 (AEP 2016). Avoiding interference with, and making substantial progress toward, these long-term State targets is important as these targets have been set at levels that achieve California's fair share of international emissions reduction targets that will stabilize global climate change effects and avoid the adverse environmental consequences.

The Working Group's efficiency threshold was first reduced to the SB 32's codified 2030 target of 40 percent below 1990 emissions, which would be 2.88 $MTCO_2e$ per year per service population. A 2.88 $MTCO_2e$ per year per service population threshold would be reduced by 0.192 $MTCO_2e$ per year to reach 2045's goal of 0 M CO_2e per year. Therefore, in the year 2039 this would equate to a 1.15 $MTCO_2e$ per year per service population threshold that is applied to the project.

Project Service Population

The forecasted service population attributed to the project is estimated as the potential number of students and employees serviced by the academic and residential aspects of the project. The Campus Master Plan aims to increase the FTES of CSUF to 7,000. In addition, the Campus Master Plan would increase faculty and staff by 1,000 to accommodate the increase in students. Therefore, the project would have a service population of 8,000.

b. Methodology

GHG emissions for project construction and operation were calculated using CalEEMod, Version 2016.3.2. The model calculates emissions of the following GHGs: CO_2, N_2O, and CH_4, which are combined using each GHGs' GWP and reported as CO_2e. The calculation methodology and input data used in CalEEMod can be found in the CalEEMod User's Guide Appendices A, D, and E (CAPCOA 2017). GHG emissions include water and solid waste sources in addition to area, energy, and mobile sources. The input data and subsequent construction and operation GHG emission estimates for the proposed project are discussed below and in Section 4.2, *Air Quality*. CalEEMod output files for the project are included in Appendix C to this report.

Pursuant to SCAQMD Guidance, total construction GHG emissions resulting from the project are amortized over 30 years and added to operational GHG emissions.

Operational Emissions

ENERGY SOURCES

Emissions from energy use include electricity and natural gas use. The emissions factors for natural gas combustion are based on USEPA's AP-42 (*Compilation of Air Pollutant Emissions Factors*) and CCAR General Reporting Protocol (CCAR 2009). Electricity emissions only apply to GHG emissions (as the energy is generated off-site and therefore may not be relevant for local and regional air quality conditions) and are calculated by multiplying the energy use times the carbon intensity of the utility district per kWh (CAPCOA 2017). The electricity consumption values in CalEEMod include the CEC-sponsored California Commercial End Use Survey and Residential Appliance Saturation Survey studies. CalEEMod currently incorporates California's 2016 Title 24 building energy efficiency standards. To account for the more stringent 2019 Title 24 standards, a seven percent reduction of energy use was taken across the entire modeled project which is the standard for new construction without solar technology. This is considered a conservative estimate, as Title 24 standards will continue to be revised with increased energy efficiency standards that project buildings will continue to comply with. While it is likely that project buildings would incorporate solar photovoltaic systems into project design, at this stage of planning details of the extent of such systems are unknown; therefore, the model conservatively does not account for generation of solar energy.

Electricity emissions are calculated by multiplying the energy use times the carbon intensity of the utility district per kilowatt hour (CAPCOA 2017). The project would be served by SCE. Therefore, SCE's specific energy intensity factors (i.e., the amount of CO_2, CH_4, and N_2O per kilowatt-hour) are used in the calculations of GHG emissions. The energy intensity factors included in CalEEMod are based on 2012 data at which time SCE had only achieved a 20.6 percent procurement of renewable energy (CPUC 2012). Per SB 100, the statewide RPS Program requires electricity providers to increase procurement from eligible renewable energy sources to 60 percent by 2030 and 100 percent by 2045. To account for the continuing effects of the RPS, the energy intensity factors included in CalEEMod were reduced based on the percentage of renewables reported by SCE. Linear RPS goals were identified between 2030 and 2045 so that an appropriate renewable power generation mix could be applied to the annual electricity-related GHG emissions in 2039. Based on linear interpolation, this analysis assumes that 84 percent of electricity provided to the project site would be generated by renewable power in 2039.

AREA SOURCES

Emissions associated with area sources, including space and water heating, consumer products, landscape maintenance, and architectural coating were calculated in CalEEMod and utilize standard emission rates from CARB, USEPA, and emission factor values provided by the local air district (CAPCOA 2017).

WASTE SOURCES

GHG emissions from waste generation were also calculated in CalEEMod and are based on the IPCC's methods for quantifying GHG emissions from solid waste using the degradable organic content of waste (CAPCOA 2017). Waste disposal rates by land use and overall composition of municipal solid waste in California was primarily based on data provided by CalRecycle.

WATER AND WASTEWATER SOURCES

GHG emissions from water and wastewater usage calculated in CalEEMod were based on the electricity intensity from the CEC's 2006 Refining Estimates of Water-Related Energy Use in California using the average values for northern and southern California. A 20 percent reduction in indoor potable water use was incorporated in the model in accordance with CalGreen standards.

MOBILE SOURCES

Mobile source GHG emissions are generated by the increase in vehicle trips to and from the project site associated with operation of onsite development. Baseline vehicle trips for the project were calculated using ITE trip generation rates included in CalEEMod for each proposed land use. Baseline trip rates were then adjusted to account for the project generated VMT as determined by the project's TIS (Appendix M). The TIS determined that the project generated VMT per service population would be 14.38 miles; this rate would be for the weekdays when students and employees are commuting to school. Assuming 261 weekdays per year with 8,000 people in the service population (4,000 commuter students, 3,000 resident students, and 1,000 employees), this would result in 30,025,440 annual VMT on weekdays. Due to the school use, Saturday and Sunday trips would be lower and therefore VMT would be reduced. The proportion of trips on these days compared to the weekdays in CalEEMod was used to reduce the VMT accordingly;[1] therefore, 4,997,935 annual VMT would be generated on the 52 Saturdays in a year, and 1,976,785 VMT would be generated on the 52 Sundays in a year. Total project annual VMT was estimated at 37,000,160 VMT, and the CalEEMod output was modified to reflect this VMT total. Modeling did not include potential reductions from implementation of TDM measures.

Because CalEEMod does not calculate N_2O emissions from mobile sources, N_2O emissions were quantified using guidance from CARB and the Emission Factor (EMFAC)2017 Emissions Inventory for the Orange County region for the project's operational year (2039) using the EMFAC2011 categories (CARB 2019a and 2019b; see Appendix C for calculations).

c. Impact Analysis

Threshold 1:	Would the project generate GHG emissions, either directly or indirectly, that may have a significant impact on the environment?

Impact GHG-1 THE PROJECT WOULD GENERATE GHG EMISSIONS DURING CONSTRUCTION AND OPERATION THAT WOULD EXCEED THE PROJECT-SPECIFIC GHG EMISSION THRESHOLD. THIS IMPACT WOULD BE SIGNIFICANT AND UNAVOIDABLE. FOLLOWING MITIGATION, IMPACTS WOULD STILL BE SIGNIFICANT AND UNAVOIDABLE.

This section evaluates potential impacts of the proposed project related to the generation of GHG emissions. Complete modeling results are included as Appendix C of this report.

Construction Emissions

As shown in Table 4.5-1, construction activity for the project would generate an estimated 28,280 $MTCO_2e$. When amortized over a 30-year period, construction of the project would generate approximately 943 $MTCO_2e$ per year.

[1] For the student housing uses, Saturdays and Sundays would have 96 percent and 88 percent of the weekday total, respectively; for the university uses, Saturdays and Sundays would have 76 percent and 0 percent of the weekday total, respectively.

Table 4.5-1 Estimated Construction GHG Emissions

Construction Year	Annual Emissions ($MTCO_2e$)
Phase 1	
2024	536
2025	1,991
2026	3,277
2027	3,791
2028	3,706
2029	1,149
Phase 2	
2030	1,855
2031	2,008
2032	1,568
2033	1,546
2034	231
Phase 3	
2035	1,557
2036	1,820
2037	1,511
2038	1,511
2039	223
Total	**28,280**
Amortized over 30 years	**943**

Notes: See Appendix C for modeling results. Some numbers may not add up precisely due to rounding considerations.

Operational and Total Project Emissions

The operational emissions were modeled in CalEEMod for calendar year 2035. Year 2035 was selected in CalEEMod based on the proposed project's expected operational buildout year of 2039 and model limitation to year 2035. Utilization of year 2035 is conservative and would not under-estimate the proposed project's GHG emissions.

Table 4.5-2 combines the construction and operational GHG emissions associated with development of the project. As shown, annual emissions from the project would be 17,594 $MTCO_2e$ at project buildout in 2039, equating to 2.20 $MTCO_2e$ per service person per year. These emissions would exceed the 1.15 $MTCO_2e$ project-specific threshold, and the project would impose a significant cumulative impact in the surrounding area.

Table 4.5-2 Combined Annual GHG Emissions

Emission Source	Annual Emissions $MTCO_2e$
Construction	943
Operational	
Area	48
Energy	5,816
Solid Waste	1,303
Water	461
Mobile	
CH_4 and CO_2	8,961
N_2O	62
Net Total	**17,594**
Service Population	8,000 persons
Emissions per Service Person	**2.20**
2039 Threshold	1.15
Exceeds Threshold?	**Yes**

Notes: Emissions modeling was completed using CalEEMod, except for N_2O mobile emissions. See Appendix C for modeling results and N_2O emissions calculations. Some numbers may not add up precisely due to rounding considerations.

Mitigation Measures

Mitigation Measure GHG-1 would be implemented to reduce the project's GHG emissions.

GHG-1 GHG Emissions Reduction Plan

CSUF shall prepare and implement a plan to reduce operational GHG emissions through implementation of one or more of the following measures:

a. Prior to the construction of Campus Master Plan projects analyzed in this analysis,[2] CSUF shall develop a Greenhouse Gas Reduction Program (GGRP) that reduces annual GHG emissions from the Campus Master Plan by a minimum of the $MTCO_2e$ per year that the project exceeds for that year and each subsequent year, which is estimated to be 8,281 $MTCO_2e$ in 2039 (1.15 $MTCO_2e$ per person per year in 2039) over the operational life of the project, or by an amount determined through further analysis of project GHG emissions at the time of GGRP preparation. The plan may include, but not be limited to, the following components:
   1. Installation of renewable energy facilities (e.g., solar photovoltaics)
   2. Purchase of renewable energy in lieu of fossil-fuel grid sources
   3. Construction of residences that achieve energy and water efficiencies beyond those specified in the California Code of Regulations, Title 24 requirements

[2] The analysis did not include projects in the Campus Master Plan considered "immediate" or part of the five-year capital plan

4. Implementation of energy efficient building design exceeding California Building Code requirements
5. Installation of energy-efficient equipment and appliances exceeding California Green Building Code standards
6. Construction of all-electric buildings
7. Installation of outdoor water conservation and recycling features, such as smart irrigation controllers and reclaimed water usage
8. Installation of low-flow bathroom and kitchen fixtures and fittings
9. Provision of incentives and outreach for future residents to promote alternative transportation and transit use
10. Promotion of alternative fuel vehicles
11. Increased provision of electric vehicle (EV) charging parking spaces beyond required
12. Implementation of carbon sequestration measures

CSUF shall monitor and verify implementation of measures included in the GGRP to ensure implementation of mitigation measures included in the plan.

Significance After Mitigation

Implementation of Mitigation Measure GHG-1 would reduce GHG emissions through creation and implementation of a GHG Reduction Plan. At this stage of planning, it is unknown what exact measures would be implemented as part of the plan and therefore reductions are not quantifiable. In addition, it is unknown if the measures would be able to reduce emissions to below the applicable thresholds due to the majority of the emissions coming from mobile emissions. Although project design features include TDM implementation that would have the effect of reducing mobile trips that was not included in modeling (e.g., mobility hubs that support transit, bikeshare, scootershare, carshare, on-demand rideshare, microtransit, EVs, and rideables), ultimately vehicle emissions depend on individual transportation choices that CSUF would not have full control over. Therefore, impacts from GHG emissions would be significant and unavoidable.

Threshold 2:	Would the project conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of GHGs?

Impact GHG-2 DUE TO PROJECT GHG EMISSIONS DURING CONSTRUCTION AND OPERATION THAT WOULD EXCEED THE PROJECT-SPECIFIC GHG EMISSION THRESHOLD, THE PROJECT WOULD CONFLICT WITH THE GOALS OF THE 2017 SCOPING PLAN, EO B-55-18, AND ACUPCC. THIS IMPACT WOULD BE SIGNIFICANT AND UNAVOIDABLE. FOLLOWING MITIGATION, IMPACTS WOULD STILL BE SIGNIFICANT AND UNAVOIDABLE.

The Campus Master Plan was evaluated for consistency with applicable local and State plans that were developed with the intent of reducing GHG emissions. Each applicable plan is discussed separately below.

2017 Scoping Plan and EO B-55-18

The 2017 Scoping Plan outlines a pathway to achieving the reduction targets set under SB 32, which is considered an interim target toward meeting long-term 2045 goal established by EO B-55-18. The project would impede “substantial progress” toward meeting the SB 32 and EO B-55-18 targets if per service person GHG emissions exceeded the project-specific 2039 GHG emission threshold. As

discussed under Impact GHG-1, the project's GHG emissions would exceed the 2039 efficiency threshold. As a result, the project would potentially conflict with the reduction targets of 2017 Scoping Plan and EO B-55-18, and impacts would be significant.

Consistency with the CSU Sustainability Policy

The CSU Sustainability Policy aims to reduce the environmental impact of construction and operation of buildings and to integrate sustainability across the curriculum. The main goal relevant to the project would be the policy to reduce GHG emissions 80 percent below 1990 levels by 2040. This emissions reduction target applies to only Scope 1 and 2 emissions. The project-specific GHG emissions threshold developed for the Campus Master Plan in this analysis is an interpolated target for 2039 to comply with a net-zero emissions date of 2045, which would result in a similar reduction of approximately 80 percent in 2040. In addition, this target includes Scope 3 emissions (e.g., mobile emissions). While the project does not meet the project-specific 2039 threshold, this is mostly due to mobile emissions, which are part of Scope 3 emissions that are not included in the CSU Sustainability Policy's goal. Without mobile emissions, the project would result in an emissions per service person of 1.08 $MTCO_2e$ in 2039, which would be within the 1.15 $MTCO_2e$ threshold and would be on pace to reach the 2040 goal with Scope 1 and 2 emissions. Therefore, the project would be consistent with the CSU Sustainability Policy.

Consistency with the American College and University Presidents' Climate Commitment

CSUF committed to achieve carbon neutrality by 2050 from all sources through the ACUPCC. As shown in Impact GHG-1, the project would exceed the project-specific 2039 GHG emission threshold, which was developed with a trajectory to reach carbon neutrality by 2045. Interpolating the 2030 emission threshold of 2.88 $MTCO_2e$ per year per service population out to 2039 with a carbon neutrality goal in 2050 (as opposed to 2045) would result in a 2039 target of 1.69 $MTCO_2e$ per year per service population. As the project is estimated to result in an emissions per service population of 2.20 $MTCO_2e$ per year, this would result in an exceedance of the target based upon the ACUPCC's 2050 goal. Therefore, project would potentially conflict with the reduction targets of the ACUPCC, and impacts would be potentially significant.

Mitigation Measures

See Mitigation Measure GHG-1 under Impact GHG-1.

Significance After Mitigation

See *Significance After Mitigation* discussion under Impact GHG-1. As mitigation would still result in GHG emissions that exceed the project-specific 2039 GHG emission threshold and therefore impede "substantial progress" toward meeting the SB 32, EO B-55-18, and ACUPCC targets, impacts under Impact GHG-2 would be significant and unavoidable after mitigation.

4.5.3 Cumulative Impacts

The planned and pending projects near the proposed project are listed in Table 3-1 (Section 3, *Environmental Setting*). Each of these projects would generate GHG emissions from vehicle trips, electrical and water use, and other sources. The analysis of GHG emissions is cumulative in nature,

as emissions affect the accumulation of GHGs in Earth's atmosphere. Projects that fall below thresholds are considered to have a less than significant impact, both individually and cumulatively.

As indicated in Impact GHG-1 and Impact GHG-2, the project would have a significant and unavoidable impact on GHG emissions and conflicts with GHG reduction plans, primarily due to the mobile emissions from the project. Implementation of Mitigation Measure GHG-1 would reduce GHG emissions through creation and implementation of a GHG Reduction Plan. At this stage of planning, it is unknown what exact measures would be implemented as part of the plan and therefore reductions are not quantifiable. In addition, it is unknown if the measures would be able to reduce emissions to below the applicable thresholds due to the majority of the emissions coming from mobile emissions. Campus TDM measures have been established to help reduce overall VMT and GHG emissions. TDM implementation includes short term, medium term, and long-term measures that range from first year parking bans to variable parking pricing and overall street improvements. Splitting up campus TDM strategies into three phases helps ensure that CSUF is able to achieve GHG reductions throughout the duration of the Campus Master Plan. Further discussion on proposed TDM measures is discussed in Section 4.11, *Transportation*. Although project design features include TDM implementation that would have the effect of reducing mobile trips that was not included in modeling, ultimately vehicle emissions depend on individual transportation choices that CSUF would not have full control over. Therefore, impacts from GHG emissions would be significant and unavoidable even with mitigation, and the project would result in a significant and unavoidable cumulatively considerable impact to GHG emissions.

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4.6 Geology and Soils

This section analyzes the Campus Master Plan's potential impacts with regard to geology, soils, and paleontological resources. Mitigation measures are included where potentially significant impacts were identified.

4.6.1 Environmental Setting

a. Existing Geologic Setting and Hazards

Regional Geology and Drainage

Orange County is geographically and topographically diverse, encompassing mountains, hills, flatland and coastline. The City of Fullerton is located in the northwest portion of Orange County, northwest of the Santa Ana mountains, and within the lowlands coastal plains of Orange County, which extends from Irvine into Los Angeles County. The coastal plain of Los Angeles County and Orange County borders the Santa Ana Mountains, and Puente Hills, Repetto, and Elysian to the northeast, the Santa Ana Mountains to the southeast, the San Joaquin Hills to the South, and the Pacific Ocean to the west.

Orange County was largely formed by recent Holocene alluvial deposits. The coastal plain within Orange County is underlain by deep structural depressions containing sedimentary rock (Fullerton 2012a). The subsurface varies in thickness and lithology as a result of the rapid deposition of rock, folding, and faulting. A large portion of the sedimentary deposits has gradually been removed through natural processes such as erosion.

There are three major rivers in the region. The Rio Hondo River flows southwest and merges with the Los Angeles River. The San Gabriel River flows south of and parallel to the Los Angeles River. The largely unchannelized Santa Ana River originates in the San Bernardino Mountains and traverses San Bernardino, Orange, and Riverside Counties. Each of the rivers ultimately discharges into the Pacific Ocean.

CSUF lays within the Orange County Groundwater Basin (OCGB) which is controlled and monitored by the OCWD. This groundwater basin supplies approximately 70 percent of the water supply for residents in north and central Orange County (OCWD 2015). The district's surface water recharge system consists of 23 recharge facilities. Recharge basins are located adjacent to the Santa Ana River in the City of Anaheim and Santiago Creek in the City of Orange. The OCWD monitors the quality of groundwater being supplied to Orange County residents, along with monitoring the levels of available water supply on an annual basis. The OCGB is divided into two hydrologic divisions; The Forebay and Pressure Areas. A Forebay refers to an area of intake or recharge where most of the groundwater recharge occurs due to highly permeable sands and discontinuous clay that allow direct percolation of Santa Ana River and other surface water. The Forebay area encompasses most of the cities of Anaheim, Fullerton and Villa Park.

Local Geology

The City of Fullerton is divided into two distinct geographical areas. The southern portion of the City is primarily flat with areas of gradual slopes to the south and west. The northern portion of the city consists of gently rising foothills (City of Fullerton 2012a).

The City of Fullerton is located within the Los Angeles basin. There are three geologic and geographic divisions represented in the City: the Central Plain, Coyote Hills, and a small area north of Coyote Hills. The Central Plain extends from the southern portion of the City to the northern edge of Coyote Hills and makes up approximately one-half of the City. Coyote Hills covers the northern portion of the City and makes up approximately one-half of the City (City of Fullerton 2012a).

Geologic structures in the City run roughly east to west. Major groups of deep geologic strata consist of Basement Complex schist, which underlies Puente Hills at depth, and the Puente Formation, which is a series of shales and sandstone of Miocene Age (approximately 15 million years old). The Puente Formation is present at great depth below the Fernando Formation, south of the Whittier Fault. The Fernando Formation consists of sandstone and silty sandstone of Pliocene Age (3 to 12 million years old). Overlying the Fernando Formation is the quaternary group consisting of the San Pedro, Coyote Hills, and La Habra formations. The quaternary group represents the newest formations, formed during the last three million years on the geologic time scale, and consist of loosely jointed sandstone, siltstone, and conglomerate beds.

Fullerton is underlain by three primary soil units: surficial formations, terrace deposits, and alluvium. The surficial and terrace deposits are interspersed in the northern portion of the City. Alluvium underlays the southern portion of the City (City of Fullerton 2012a).

Geologic Hazards

SOILS

The City of Fullerton is highly urbanized. The Fullerton Plan, acknowledges that surface soils in the City may no longer reflect natural soil associations and characteristics since topsoil in the City has been developed (City of Fullerton 2012a). According to the United States Department of Agriculture Soil Conservation Service General Soil Map, 15 soil types and characteristics are found within the City of Fullerton.

The CSUF campus is underlain by Mocho Loam soil with 0 to 2 percent slope (USDA 2019). This type of soil is characterized as generally level that occurs on fans or floodplains. Runoff is typically slow, and the erosion hazard is minimal. The soil retains a relatively high amount of water, with an available water capacity of 9.5 to 12.0 inches (City of Fullerton 2012a).

SEISMICITY AND SURFACE FAULT RUPTURE

The numerous faults in southern California include active, potentially active, and inactive faults. The criteria for these major groups are based on criteria developed by the California Geologic Survey (CGS) for the Alquist-Priolo Earthquake Fault Zone Program. By definition, an active fault is one that has had surface displacement within Holocene time (about the last 11,000 years). A potentially active fault has demonstrated surface displacement during Quaternary time (approximately the last 1.6 million years) but has had no known Holocene movement. Faults that have not moved in the last 1.6 million years are considered inactive.

The City of Fullerton has two main faults that traverse through the city limits. The Norwalk Fault traverses the central and southeastern portion of the City of Fullerton, extending approximately 17 miles from Norwalk to Coyote Hills. The fault is noted as a possible source of a magnitude 4.7 earthquake occurring on July 8, 1929 which caused significant damage to Whittier and Norwalk. Microseismic activity along the Norwalk Fault is high; the fault may be capable of generating a magnitude 6.3 earthquake on the Richter Scale. The Norwalk Fault is one of two faults within the

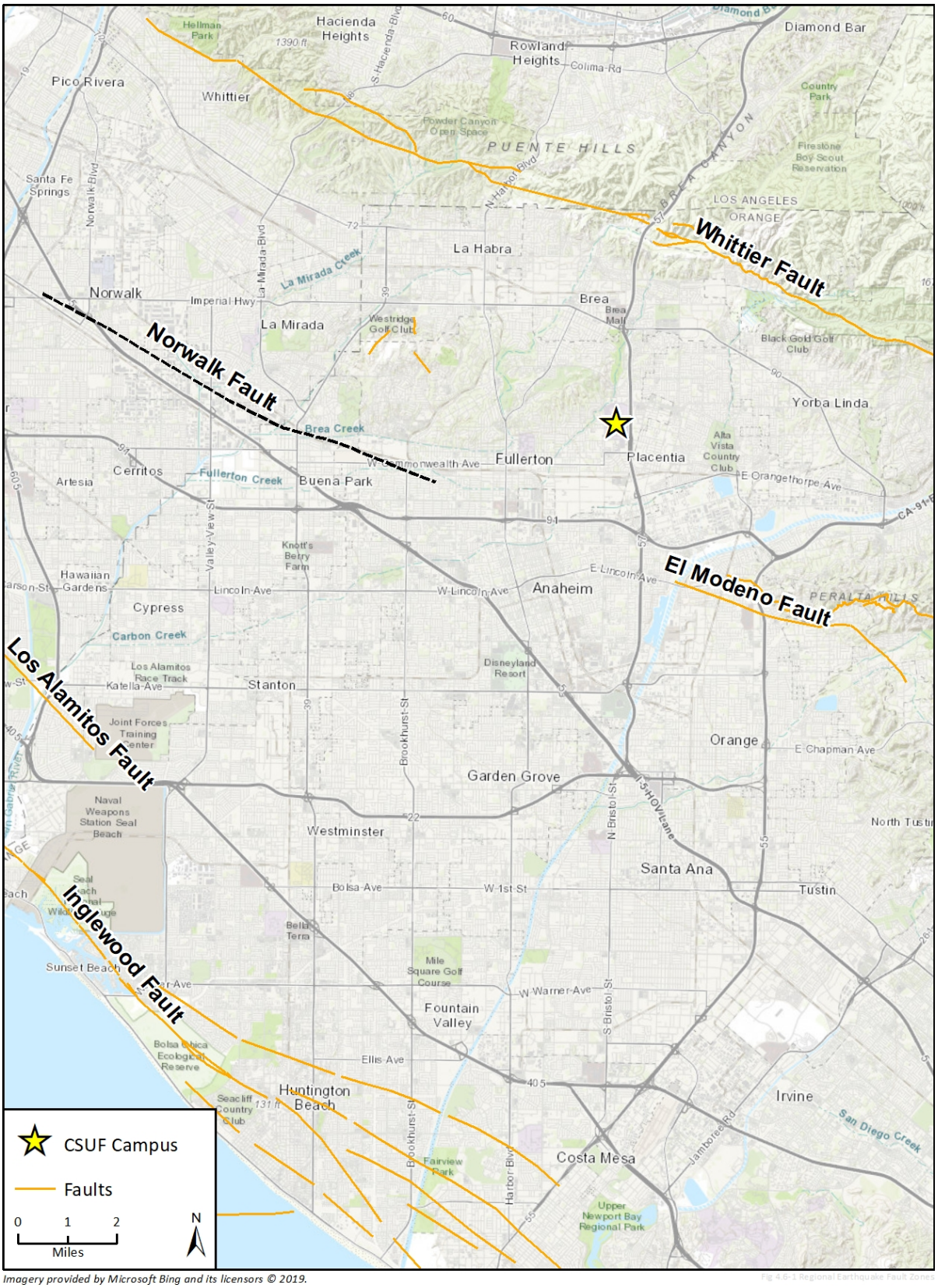
City of Fullerton however, no surface faulting has been associated with this fault. The second fault that runs through the City is the Puente Hills Fault. The Puente Hills Fault, or the Puente Hills thrust system, underlies the East and West Coyote Hills located in the northern and western portions of the City. The fault has a history of having a lack of superficial ground features normally associated with thrust faults that have recently experienced seismic activity. The Puente Hills Fault is comprised of three fault segments: The Los Angeles; the Santa Fe Springs, and the Coyote Hills segments, from west to east, respectively. The fault terminates at a depth of approximately two miles and extends for 25 to 30 miles from northern Orange County, running beneath downtown Los Angeles to approximately the Beverly Hills area. The fault encompasses several hundred square miles of densely populated urban areas. At least four large earthquakes with magnitudes ranging from 7.2 to 7.5 occurred over the past 11,000 years. The United States Geological Survey (USGS) National Seismic Hazard Maps have indicated this fault as active, with a magnitude range of 6.65 to 7.45. The City has identified several additional faults that run throughout the surrounding region; the closest fault being the Whittier-Elsinore Fault located approximately 1.6 miles northeast of the City; the farthest being the San Andreas Fault located approximately 37 miles northeast of the City. Neither the Norwalk Fault or the Puente Hills Fault has resulted in surface faulting. Additionally, the campus is not within an Alquist-Priolo Earthquake Fault Zone and has no active faults that pass directly beneath it (City of Fullerton 2012a). Table 4.6-1 illustrates the surrounding regional faults in relation to CSUF. Figure 4.6-1 shows the fault zones in proximity to CSUF.

The City of Fullerton is subject to seismic ground shaking to the close proximity and potential earthquake magnitude of nearby faults. The Norwalk Fault and the Puente Hills Fault have the greatest potential for causing the greatest extent of ground shaking in the City. Additional nearby regional faults, including the Whittier-Elsinore Fault, the Newport-Inglewood Fault, and the Sierra Madres/San Fernando/Santa Susana Fault, could also result in significant ground shaking.

Table 4.6-1 Regional Faults in Relation to CSUF Campus

Fault Name	Local/Distance from CSUF to Fault	Length of Fault (miles)
Norwalk Fault	2.75 miles west	17
Puente Hills Fault	4 miles northwest	25
Whittier Fault	2.75 miles north	135-145
Newport-Inglewood Fault	13.75 miles south	50-86
San Andreas Fault	33 miles north	300-320

Figure 4.6-1 Reqional Earthquake Fault Zones



LIQUEFACTION AND LATERAL SPREADING

Liquefaction describes a phenomenon in which loose, saturated, relatively cohesionless soil deposits lose shear strength during strong ground motions. Primary factors controlling liquefaction include intensity and duration of ground motion, gradation characteristics of the subsurface soils, on-site stress conditions, and the depth to groundwater. Liquefaction is typified by a loss of shear strength in the liquefied layers due to rapid increases in pore water pressure generated by earthquake accelerations. Liquefaction typically occurs in areas where the soils below the water table are composed of poorly consolidated, fine to medium-grained, primarily sandy soil. In addition to the requisite soil conditions, the ground acceleration and duration of the earthquake must also be of a sufficient level to induce liquefaction.

Liquefaction may also lead to lateral spreading. Lateral spreading (also known as expansion) is the horizontal movement or spreading of soil toward an “open face,” such as a streambank, the open side of fill embankments, or the sides of levees. It often occurs in response to liquefaction of soils in an adjacent area. The potential for failure from lateral spreading is highest in areas where there is a high groundwater table, where there are relatively soft and recent alluvial deposits, and where creek banks are relatively high.

The CGS Seismic Hazard Zones Map identifies that the City, especially the southwestern portion, has high potential for liquefaction. CGS has identified that the northern portion of the CSUF campus, including Parking Lot A, Parking Lot A South, Parking Lot G, and the northern half of the Titan Sports Complex is within a liquefaction zone but does not lay within an earthquake fault zone. The southern portion of the campus is not within a liquefaction zone or an earthquake fault zone. Figure 4.6-2 illustrates the closest liquefaction zone to CSUF, with the dark teal color indicating the liquefaction zone that underlays the northern portion of campus.

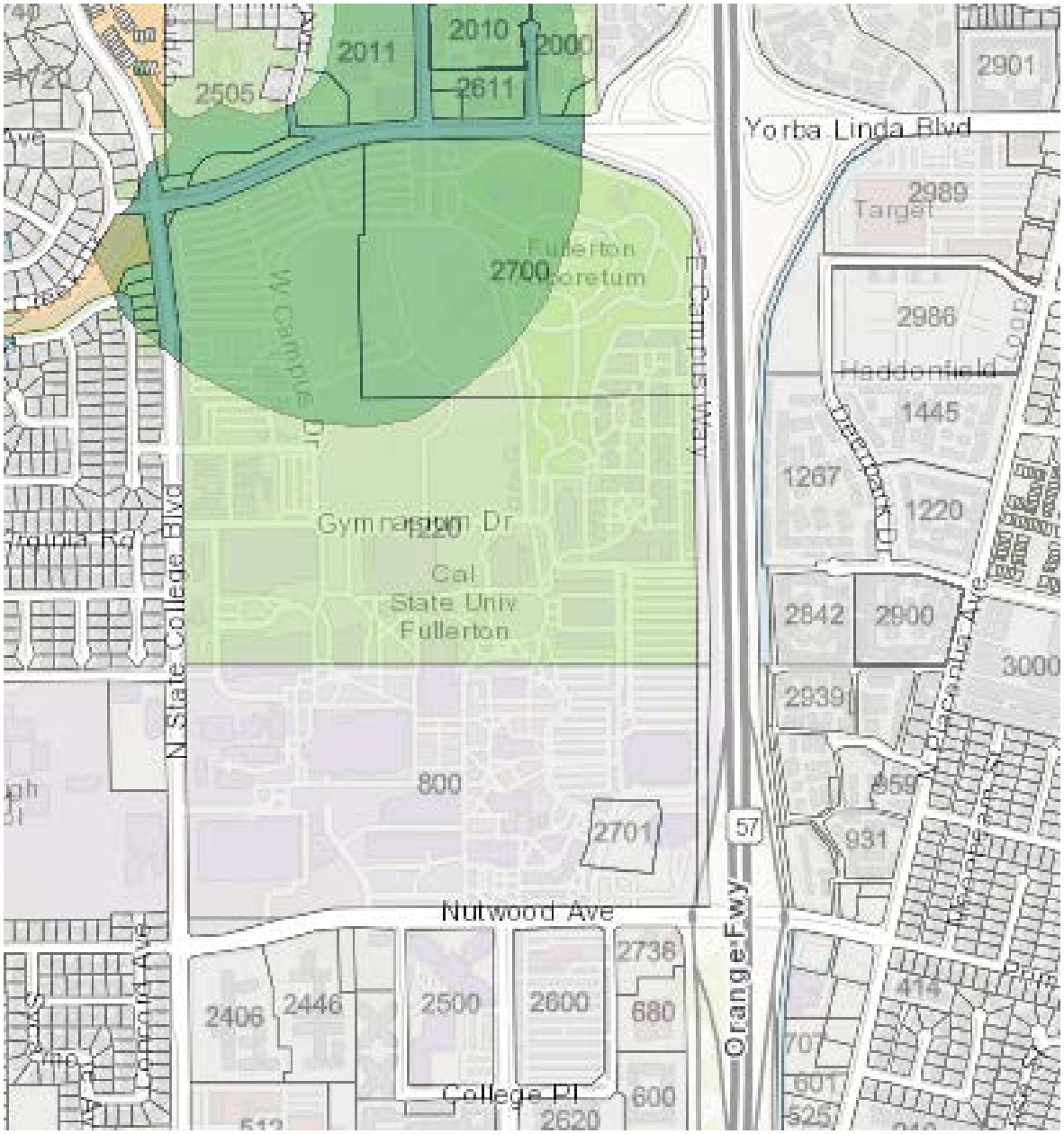
SUBSIDENCE

Subsidence occurs when a large portion of land is displaced vertically, usually due to the withdrawal of groundwater, oil, or natural gas. Soils particularly subject to subsidence include those with high silt or clay content. Soils with high shrink-swell potential can be particularly susceptible to subsidence during a loss of soil moisture. CSUF is located on Mocho loam on a zero to two percent slope; which has potential of slight to moderate shrink-swell. Additionally, subsidence hazards can occur from the settlement of under-consolidated soils that may occur during earthquake shaking. The Fullerton Plan has identified that zones subject to subsidence resulting from consolidations include the central and northern portions of the City. The City has no ongoing or planned large-scale extractions of groundwater or petroleum that would cause subsidence associated with fluid withdrawal.

LANDSLIDES

Landslides occur when slopes become unstable and masses of earth material move downslope. Landslides are generally considered to be rapid events, often triggered during periods of rainfall or by earthquakes. Mudslides and slumps are a shallower type of slope failure compared to landslides. Lateral spreading may occur when potentially liquefiable soils are present and exposed in conjunction with a sloping ground surface. If soils in the slope liquefy, temporary instability could result in movement of sediments and slope failure. Areas in the city that are identified as earthquake-induced landslide zones are in the northwestern and eastern portions of the city (City of Fullerton 2012a).

Figure 4.6-2 Liquefaction Zone



The CSUF campus is not located in an area for earthquake-induced landslides. The topography at the campus is relatively flat due to grading and development. Additionally, the campus is not in the path of any known or potential landslides.

b. Regulatory Setting

Federal

Earthquake Hazards Reduction Act

U.S. Congress passed the Earthquake Hazards Reduction Act in 1977 to reduce the risks to life and property from future earthquakes through the establishment and maintenance of an effective earthquake hazards reduction program. To accomplish this goal, the act established the National Earthquake Hazards Reduction Program. This program was substantially amended in November 1990 by the National Earthquake Hazards Reduction Program Act, which refined the description of agency responsibilities, program goals, and objectives to focus on minimizing loss from earthquakes after they occur. The National Earthquake Hazards Reduction Program promotes the adoption of earthquake hazard reduction activities by all scales of government and works to develop national building standards and model codes for use by engineers, architects, and all others involved in the planning and construction of buildings and infrastructure.

State

Alquist-Priolo Earthquake Fault Zoning Act

The Alquist-Priolo Earthquake Fault Zoning Act of 1972 (Alquist-Priolo Act; Public Resources Code Sections 2621-2630) was passed into law following the destructive February 9, 1971 San Fernando earthquake that had a magnitude of 6.6. The Alquist-Priolo Act provides a mechanism for reducing losses from surface fault rupture on a statewide basis. The intent of the Alquist-Priolo Act is to ensure public safety by prohibiting the siting of most structures for human occupancy across traces of active faults that constitute a potential hazard to structures from surface faulting or fault creep. Generally, siting of structures for human occupancy must be set back from the fault by approximately 50 feet. Therefore, if a project site is located in an Earthquake Fault Zone, the City must withhold development permits for sites within the fault zones until geologic investigations demonstrate that the sites are not threatened by surface displacement from future faulting.

Seismic Safety Act

The California Seismic Safety Commission was established by the Seismic Safety Act in 1975 with the intent of providing oversight, review, and recommendations to the Governor and State Legislature regarding seismic issues. The Commission's name was changed to Alfred E. Alquist Seismic Safety Commission in 2006. Since then, the Commission has prepared several documents based on recorded earthquakes, such as the 1994 Northridge earthquake, 1933 Long Beach earthquake, and the 1971 Sylmar earthquake. Some of these documents are listed as follows:

- Research and Implementation Plan for Earthquake Risk Reduction in California 1995 to 2000, report dated December 1994
- Seismic Safety in California's Schools, 2004, "Findings and Recommendations on Seismic Safety Policies and Requirements for Public, Private, and Charter Schools," report dated December 1994
- Findings and Recommendations on Hospital Seismic Safety, report dated November 2001
- Commercial Property Owner's Guide to Earthquakes Safety, report dated October 2006
- California Earthquake Loss Reduction Plan 2007–2011, report dated July 2007

Seismic Hazards Mapping Act

The Seismic Hazards Mapping Act of 1990 was enacted, in part, to address seismic hazards not included in the Alquist-Priolo Act, including strong ground shaking, landslides, and liquefaction. Under this Act, the State Geologist is assigned the responsibility of identifying and mapping seismic hazards. CGS Special Publication 117, adopted in 1997 by the State Mining and Geology Board, constitutes guidelines for evaluating seismic hazards other than surface faulting, and for recommending mitigation measures as required by Public Resources Code Section 2695(a). In accordance with the mapping criteria, the CGS seismic hazard zone maps identifies areas with the potential for a ground shaking event that corresponds to 10 percent probability of exceedance in 50 years.

The purpose of the Seismic Hazards Mapping Act is to reduce the threat to public health and safety and to minimize the loss of life and property by identifying and mitigating seismic hazards. Cities, counties, and state agencies are directed to use seismic hazard zone maps developed by CGS in their land-use planning and permitting processes. The Seismic Hazards Mapping Act requires site-specific geotechnical investigations prior to permitting most urban development projects in seismic hazard zones.

California Building Code

The CBC Title 24, Part 2, provides building codes and standards for the design and construction of structures in California. The purpose of the CBC is to establish minimum standards to safeguard the public health, safety, and general welfare through structural strength, means of egress facilities, and general stability by controlling the design, construction, quality of materials, use and occupancy, location, and maintenance of building and structures. The CBC contains specific requirements for seismic safety, excavation, foundations, retaining walls, and site demolition. It also regulates grading activities, including drainage and erosion control. Chapter 16 of the CBC contains definitions of seismic sources and the procedure used to calculate seismic forces on structures.

The CBC is updated every three years by order of the legislature, with supplements published in intervening years. State Law mandates that local government enforce the CBC. In addition, a city and/or county may establish more restrictive building standards reasonably necessary because of local climatic, geological, or topographical conditions. The 2019 CBC is based on the 2018 International Building Code, with the addition of more extensive structural seismic provisions.

Natural Hazards Disclosure Act

The Natural Hazards Disclosure Act, as codified in California Civil Code Section 1103-1103.14, requires real estate sellers and brokers to prepare Natural Hazards Disclosure Statements upon transfer of real property if such property is located within a number of federally or state-mapped natural hazard areas. Hazard areas covered under the disclosure form include special flood hazard areas, areas of potential flooding due to dam failure inundation, fire hazard severity zones, wildland areas, earthquake fault zones, and seismic hazard zones.

The natural hazard areas most relevant to geology and soils are earthquake fault zones and seismic hazard zones. As discussed above, the campus is not located within an earthquake fault zone. The northern part of campus is located in a potential liquefaction zone. This analysis addresses impacts and mitigation measures related to this seismic hazard.

National Pollutant Discharge Elimination System

The federal government administers the National Pollutant Discharge Elimination System (NPDES) permit program, which regulates discharges into surface waters under the Clean Water Act (CWA). The primary regulatory control relevant to the protection of water quality is the NPDES permit administered by the State Water Resources Control Board, which establishes requirements prescribing the quality of point sources of discharge and water quality objectives. These objectives are established based on the designated beneficial uses (e.g., water supply, recreation, and habitat) for a particular surface waterbody. NPDES permits are issued to point source dischargers of pollutants to surface waters pursuant to Water Code Chapter 5.5, which implements the federal CWA. Examples include, but are not limited to, public wastewater treatment facilities, industries, power plants, and groundwater cleanup programs discharging to surface waters (State Water Resources Control Board, Title 23, Chapter 9, Section 2200). The Regional Water Quality Control Board (RWQCB) establishes and regulates discharge limits under the NPDES permits.

Construction projects which disturb one or more acres of soil or are part of a larger common plan of development that disturbs one or more acres of soil must obtain coverage under the statewide NPDES General Permit for Discharges of Stormwater Associated with Construction Activity (Construction General Permit Order 2009-0009-DWQ). In order to obtain coverage under the Construction General Permit, a project-specific Stormwater Pollution Prevention Plan (SWPPP) must be prepared. The SWPPP outlines BMPs to reduce stormwater and non-stormwater pollutant discharges, including erosion control, minimizing contact between construction materials and precipitation, and strategies to prevent equipment leakage or spills.

California Public Resources Code, Section 5097.5

PRC Section 5097.5 defines as a misdemeanor the unauthorized disturbance or removal of archaeological, historic, or paleontological resources located on public lands.

CSU Seismic Requirements

The CSU Seismic Requirements were established to implement Seismic Policy set by the Board of Trustees. The CSU Seismic Policy applies to all buildings and structures within a CSU campus. All facilities must be evaluated according to the “Standards for Acquiring Buildings and Space.” Planning for all projects included in the Campus Master Plan should address the options considered to improve seismic performance beyond minimally required code performance (CSU 2016).

4.6.2 Impact Analysis

a. Thresholds of Significance

To determine whether a project would result in a significant impact to Geology and Soils, Appendix G of the CEQA Guidelines requires consideration of whether a project would:

1. Directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area; strong seismic ground shaking; seismic-related ground failure, including liquefaction; or landslides;
2. Result in substantial soil erosion or the loss of topsoil;

3. Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction, or collapse;
4. Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial risks to life or property;
5. Have soils incapable of adequately supporting the use of septic tanks or alternative wastewater disposal systems where sewers are not available for the disposal of wastewater; or
6. Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature.

b. Methodology

To evaluate Campus Mater Plan impacts, resource conditions that could pose a risk to development of the Campus Master Plan were identified through review of documents pertaining to these topics. Sources consulted include the County of Orange General Plan and The Fullerton Plan, U.S. Geological Survey and California Geological Survey technical maps and guides; the Natural Resources Conservation Service Soil Survey (available through the Soil Survey Geographic Database); previous EIRs; background reports prepared for nearby plans and projects; and published geologic literature. The information obtained from these sources was reviewed and summarized to establish the existing conditions (described above) and identify potential environmental hazards. In determining level of significance, the analysis assumes that the Campus Master Plan would comply with relevant laws, regulations, and guidelines.

c. Impact Analysis

Threshold 1a: Would the project directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault?

Threshold 1b: Would the project directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving strong seismic ground shaking?

Threshold 1c: Would the project directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving seismic-related ground failure, including liquefaction?

Threshold 1d: Would the project directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving landslides?

IMPACT GEO-1 THE CAMPUS IS NOT LOCATED IN AN ALQUIST-PRIOLO FAULT ZONE AND NO FAULT LINES TRAVERSE DIRECTLY UNDER THE SITE. THERE IS POTENTIAL FOR BOTH EARTHQUAKES AND GROUNDSHAKING IN THE PROJECT AREA. IMPACTS WOULD BE LESS THAN SIGNIFICANT. NO MITIGATION MEASURES ARE REQUIRED.

The southern California region is considered to be seismically active. However, CSUF is not directly located in an Alquist-Priolo Fault Zone and does not contain any known fault lines as shown on CGS's La Habra Quadrangle map and on Exhibit 26, *Ground Shaking Potential*, in the City of Fullerton General Plan Natural Environment Element (CGS 2016; City of Fullerton 2012). The campus would

be subject to ground shaking generated from regional fault activities from the Whittier Fault approximately four miles northeast, and the Peralta Hills and El Modeno faults approximately 4.5 miles southeast, which have the potential to cause moderate to large earthquakes (CGS 2015).

Master Plan implementation would include the replacement, renovation, and construction of new student housing and student support facilities as described in Section 2, *Project Description*. The projects proposed under the Campus Master Plan would be required to comply with the CSU Seismic Requirements and the latest CBC, to ensure that all new and modified buildings would be capable of withstanding anticipated levels of ground shaking. The CSU Seismic Requirements mandate the preparation of a site-specific geotechnical investigation using campus-specific 'seismic ground motion parameters' for all future development on campus. These parameters supersede CBC requirements in new construction. Thus, compliance with CSU Seismic Requirements and CBC would reduce the potential impact related to seismic ground shaking to less than significant.

Mitigation Measures

No mitigation is required.

Significance After Mitigation

Impacts would be less than significant without mitigation.

Threshold 2: Would the project result in substantial soil erosion or the loss of topsoil?

IMPACT GEO-2 THE CAMPUS WOULD BE SUBJECT TO POTENTIAL EROSION OF TOPSOIL DURING TEMPORARY CONSTRUCTION ACTIVITIES. ALL CONSTRUCTION WOULD BE SUBJECT TO FOLLOW SWRCB'S CONSTRUCTION REQUIREMENTS AND PROJECTS INVOLVING MORE THAN ONE ACRE OF GROUND DISTURBANCE WOULD BE REQUIRED TO PREPARE A SWPPP. ADDITIONALLY, CSUF IS LOCATED ON BUILT-OUT, FLAT TOPOGRAPHY. GIVEN THESE CONDITIONS AND WITH REGULATORY COMPLIANCE, SUBSTANTIAL SOIL EROSION OF TOPSOIL IS NOT ANTICIPATED TO OCCUR. IMPACTS WOULD BE LESS THAN SIGNIFICANT. NO MITIGATION MEASURES ARE REQUIRED.

Construction activities associated with the development of the Campus Master Plan would likely require ground-disturbing activities, such as grading and excavation, which could result in erosion and loss of topsoil, particularly if soils are exposed to wind or stormwater during construction. However, all new development within the Campus Master Plan would be required to comply with the SWRCB's General Permit for Discharges of Stormwater Associated with Construction Activity (Construction General Permit Order 2009-0009-DWQ). Additionally, all future development that would result in more than one acre of ground disturbance would be required to prepare a SWPPP. The SWPPP would include site-specific BMPs that would be implemented to prevent erosion and stormwater runoff and would include applicable monitoring programs to be implemented as necessary (see Section 4.13, *Effects Found Not to be Significant*, for additional discussion related to stormwater runoff).

Additionally, CSUF and vicinity are completely built-out with relatively flat topography. Therefore, conditions that contribute to substantial soil erosion or loss of topsoil are not present within the campus. The topography and drainage of the campus are anticipated to remain the same under the Campus Master Plan since renovations and construction of new buildings would occur within the campus's existing footprint. With compliance to the SWRCB's Construction General Permit Order 2009-0009-DQWQ and the development of a SWPPP, impacts would be less than significant.

Mitigation Measures

No mitigation is required.

Significance After Mitigation

Impacts would be less than significant without mitigation.

Threshold 3:	Would the project be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction, or collapse?
Threshold 4:	Would the project be located on expansive soil, as defined in Table 1-B of the Uniform Building Code (1994), creating substantial direct or indirect risks to life or property?

IMPACT GEO-3 CSUF IS NOT LOCATED IN A ZONE SUSCEPTIBLE TO LANDSLIDES, SUBSIDENCE, LATERAL SPREADING OR COLLAPSE. HOWEVER, THE NORTHERN PORTION OF CAMPUS IS LOCATED IN A ZONE OF LIQUEFACTION. THE CAMPUS OVERLIES MOCHO LOAM SOIL, WHICH HAS LOW EROSION HAZARD AND POTENTIALLY EXPANSIVE PROPERTIES. THE DEVELOPMENT OF CAMPUS MASTER PLAN PROJECTS WOULD BE REQUIRED TO COMPLY WITH BUILDING STANDARDS CONTAINED IN THE UBC, DIVISION OF THE STATE ARCHITECT (DSA), AND CGS, AS WELL AS COMPLY WITH THE CSU SEISMIC REQUIREMENTS. IMPACTS WOULD BE LESS THAN SIGNIFICANT. NO MITIGATION MEASURES ARE REQUIRED.

According to the U.S. Department of Agriculture (USDA) soil survey, the predominant soil unit mapped within the CSUF campus boundary is the Mocho loam, which generally occurs in alluvial fans or flood plains, has low erosion hazard, and expansive properties (USDA 2019). However, projects under the Campus Master Plan would comply with applicable regulations set forth by the UBC, Division of the State Architect (DSA), and CGS, which would minimize risks to life and property in relation to expanding soils.

Implementation of the Campus Master Plan would include the construction of new facilities as well as replacement of existing facilities within the Campus Master Plan area, which could potentially occur within areas that consist of expansive soils. However, development associated with the Campus Master Plan would be constructed on existing developed land and would not be subject to changes in soil type than what is already existing on the campus. Additionally, all structures proposed to be constructed or redeveloped under the Campus Master Plan would be required to comply with the CSU Seismic Requirements and the latest CBC, to ensure structural design of all new and modified buildings would not result in adverse effects such on- or off-site landslides, lateral spreading, subsidence, liquefaction, or collapse. Therefore, impacts associated with expansive or unstable soils would be less than significant.

Mitigation Measures

No mitigation measures are required.

Significance After Mitigation

Impacts would be less than significant.

Threshold 5:	Would the project have soils incapable of adequately supporting the use of septic tanks or alternative wastewater disposal systems where sewers are not available for the disposal of wastewater?

Threshold 5 is fully analyzed under Section 4.13*, Effects Found Not to Be Significant*. Additionally, the use of septic tanks and wastewater systems is fully analyzed under Section 4.12, *Utilities and Service Systems.*

Threshold 6:	Would the project directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?

IMPACT GEO-4 THE CAMPUS IS UNDERLAIN BY GEOLOGIC UNITS POSSESSING PALEONTOLOGICAL SENSITIVITY RANGING FROM LOW TO HIGH. POTENTIAL FOR PALEONTOLOGICAL RESOURCES MAY OCCUR DURING GROUND-DISTURBING ACTIVITIES FOR CERTAIN PROJECTS. MITIGATION MEASURES HAVE BEEN IDENTIFIED TO REDUCE IMPACTS IN THE EVENT OF AN UNANTICIPATED DISCOVERY OF PALEONTOLOGICAL RESOURCES. THIS IS A POTENTIALLY SIGNIFICANT IMPACT THAT CAN BE REDUCED TO LESS THAN SIGNIFICANT WITH MITIGATION.

A Paleontological Resources Assessment (PRA) was completed by Rincon Consultants, Inc., dated July 2019, and is included as Appendix J to this EIR. The analysis included in the PRA is based on a fossil locality record search at the National History Museum of Los Angeles County (NHMLAC), and review of existing geologic maps and primary literature regarding fossiliferous geologic units within the campus and vicinity. No previously recorded fossil locations were identified for the campus. CSUF is completely developed and projects proposed under the Campus Master Plan would occur within the boundaries of the campus on previously disturbed areas.

Based on the findings of the NHMLAC, the campus includes underlying geologic units that have a paleontological sensitivity ranging from low to high (Appendix K). Younger Quaternary alluvial deposits mapped at the surface were determined to have low paleontological sensitivity. However, the underlying Pleistocene deposits or La Habra Formations, approximately eight feet below the ground surface (bgs), were determined to have high sensitivity. Therefore, disturbance of potential paleontological resources may occur during ground-disturbing activities at depths beyond eight feet bgs A significant impact on paleontological resources could result if an inadvertent discovery is made during ground-disturbing activities associated with construction of projects under the Campus Master Plan. Therefore, the impact on paleontological resources would be potentially significant.

Mitigation Measures

GEO-1 Perform Site Specific Geotechnical Investigation

A site-specific geotechnical investigation shall be performed for each future development or redevelopment project proposed under the Campus Master Plan. Appropriate stabilization and site design recommendations, or low impact development features determined necessary to support proposed development shall be incorporated in the project design and implemented as part of project construction. Examples of stabilization and erosion control recommendations may include. But are not limited to:

- Installation of earthen buttress(es);
- Excavation of landslide mass/material;
- Slope stabilization through excavation into bench and/or keyways and other methods;

- Deep soil mixing;
- Installation of retaining walls;
- Use of tie-back anchors, micropiles or shear pins; or
- A combination of any of these methods

GEO-2 Retain a Qualified Paleontologist

Prior to the commencement of ground-disturbing activities, a qualified professional paleontologist shall be retained to review all project plans where ground disturbance is expected to extend to or below eight feet bgs within areas mapped as Holocene alluvial deposits (Qa) to determine if underlying paleontologically sensitive units (i.e., Pleistocene age deposits or the La Habra Formation) could be impacted. If potentially significant impacts are identified, the qualified professional paleontologist shall prepare and implement a Paleontological Resources Mitigation Plan (PRMP). A Qualified Paleontologist is an individual who meets the education and professional experience standards as set forth by the Society of Vertebrate Paleontology (SVP) (2010), which recommends the paleontologist shall have at least a Master's Degree or equivalent work experience in paleontology, shall have knowledge of the local paleontology, and shall be familiar with paleontological procedures and techniques. The PRMP shall describe mitigation recommendations in detail, including paleontological monitoring procedures; communication protocols to be followed in the event that an unanticipated fossil discovery is made during project development; and preparation, curation, and reporting requirements.

GEO-3 Paleontological Worker Environmental Awareness Program (WEAP)

Prior to the start of construction, the Qualified Paleontologist or his or her designee shall conduct training for construction personnel regarding the appearance of fossils and the procedures for notifying paleontological staff should fossils be discovered by construction staff. The WEAP shall be fulfilled at the time of a preconstruction meeting. In the event a fossil is discovered by construction personnel anywhere in the campus, all work in the immediate vicinity of the find shall cease and a qualified paleontologist shall be contacted to evaluate the find before re-starting work in the area. If it is determined that the fossil(s) is (are) scientifically significant, the qualified paleontologist shall complete the mitigation outlined below to mitigate impacts to significant fossil resources.

GEO-4 Paleontological Monitoring

Initially, full-time monitoring shall be conducted during ground construction activities (i.e., grading, trenching, foundation work, and other excavations) in areas where ground disturbance would occur at or below eight feet bgs within intact Holocene deposits. Monitoring shall be conducted by a qualified paleontological monitor, who is defined as an individual who meets the minimum qualifications per standards set forth by the SVP (2010), which includes a B.S. or B.A. degree in geology or paleontology with one year of monitoring experience and knowledge of collection and salvage of paleontological resources. The duration and timing of the monitoring shall be determined by the Qualified Paleontologist and the location and extent of proposed ground disturbance. If the Qualified Paleontologist determines that full-time monitoring is no longer warranted, based on the specific geologic conditions at the surface or at depth, the Qualified Paleontologist may recommend that monitoring be reduced to periodic spot-checking or cease entirely.

GEO-5 Fossil Discovery, Preparation, and Curation

If a paleontological resource is discovered, the monitor shall have the authority to temporarily divert the construction equipment around the find until it is assessed for scientific significance and collected. Typically, fossils can be safely salvaged quickly by a single paleontologist and not disrupt construction activity. In some cases, larger fossils (such as complete skeletons or large mammals) require more extensive excavation and longer salvage periods. In this case, the paleontologist should have the authority to temporarily direct, divert or halt construction activity to ensure that the fossil(s) can be removed in a safe and timely manner.

Once salvaged, significant fossils shall be identified to the lowest possible taxonomic level, prepared to a curation-ready condition and curated in a scientific institution with a permanent paleontological collection (such as the NHMLAC) along with all pertinent field notes, photos, data, and maps.

GEO-6 Final Paleontological Mitigation Report

At the conclusion of laboratory work and museum curation, a final report shall be prepared describing the results of the paleontological mitigation monitoring efforts associated with the project. The report shall include a summary of the field and laboratory methods, an overview of the project geology and paleontology, a list of taxa recovered (if any), an analysis of fossils recovered (if any) and their scientific significance, and recommendations. The final report shall be submitted to the CSUF. If the monitoring efforts produced fossils, then a copy of the report shall also be submitted to the designated museum repository.

Significance After Mitigation

Impacts would be less than significant with mitigation incorporated.

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4.7 Noise

This section analyzes the temporary noise impacts related to construction activity and long-term noise impacts associated with the operation of the Campus Master Plan.

4.7.1 Setting

Overview of Sound Measurement

Sound is a vibratory disturbance created by a moving or vibrating source, which is capable of being detected by the hearing organs. Noise is defined as sound that is loud, unpleasant, unexpected, or undesired and may therefore be classified as a more specific group of sounds. The effects of noise on people can include general annoyance, interference with speech communication, sleep disturbance, and, in the extreme, hearing impairment (Caltrans 2013a).

Noise levels are commonly measured in decibels (dB) using the A-weighted sound pressure level (dBA). The A-weighting scale is an adjustment to the actual sound pressure levels so that they are consistent with the human hearing response, which is most sensitive to frequencies around 4,000 Hertz (Hz) and less sensitive to frequencies around and below 100 Hz (Kinsler, et. al. 1999). Decibels are measured on a logarithmic scale that quantifies sound intensity in a manner similar to the Richter scale used to measure earthquake magnitudes. A doubling of the energy of a noise source, such as doubling of traffic volume, would increase the noise level by 3 dBA; reducing the energy in half would result in a 3 dBA decrease (Crocker 2007).

Human perception of noise has no simple correlation with sound energy: the perception of sound is not linear in terms of dBA or in terms of sound energy. Two sources do not “sound twice as loud” as one source. It is widely accepted that the average healthy ear can barely perceive changes of 3 dBA, increase or decrease (i.e., twice the sound energy); that a change of 5 dBA is readily perceptible (8 times the sound energy); and that an increase (or decrease) of 10 dBA sounds twice (half) as loud (10.5 times the sound energy) (Crocker 2007).

Sound changes in both level and frequency spectrum as it travels from the source to the receiver. The most obvious change is the decrease in level as the distance from the source increases. The manner in which noise reduces with distance depends on factors such as the type of sources (e.g., point or line, the path the sound will travel, site conditions, and obstructions). Noise levels from a point source typically attenuate, or drop off, at a rate of 6 dBA per doubling of distance (e.g., construction, industrial machinery, ventilation units). Noise from a line source (e.g., roadway, pipeline, railroad) typically attenuates at about 3 dBA per doubling of distance (Caltrans 2013a). The propagation of noise is also affected by the intervening ground, known as ground absorption. A hard site, such as a parking lot or smooth body of water, receives no additional ground attenuation and the changes in noise levels with distance (drop-off rate) result from simply the geometric spreading of the source. An additional ground attenuation value of 1.5 dBA per doubling of distance applies to a soft site (e.g., soft dirt, grass, or scattered bushes and trees) (Caltrans 2013a). Noise levels may also be reduced by intervening structures; the amount of attenuation provided by this “shielding” depends on the size of the object and the frequencies of the noise levels. Natural terrain features such as hills and dense woods, and man-made features such as buildings and walls, can significantly alter noise levels. Generally, any large structure blocking the line of sight will provide at least a 5-dBA reduction in source noise levels at the receiver (Federal Highway Administration [FHWA] 2017). Structures can substantially reduce exposure to noise as well. The FHWA’s guidelines indicate

that modern building construction generally provides an exterior-to-interior noise level reduction of 20 to 35 dBA with closed windows.

The impact of noise is not a function of loudness alone. The time of day when noise occurs and the duration of the noise are also important factors of Campus Master Plan noise impact. Most noise that lasts for more than a few seconds is variable in its intensity. Consequently, a variety of noise descriptors have been developed. One of the most frequently used noise metrics is the equivalent noise level (L_{eq}); it considers both duration and sound power level. L_{eq} is defined as the single steady A-weighted level equivalent to the same amount of energy as that contained in the actual fluctuating levels over time. Typically, L_{eq} is summed over a one-hour period. L_{max} is the highest root-mean-square (RMS) sound pressure level within the sampling period, and L_{min} is the lowest RMS sound pressure level within the measuring period (Crocker 2007).

Noise that occurs at night tends to be more disturbing than that occurring during the day. Community noise is usually measured using Day-Night Average Level (L_{dn}), which is the 24-hour average noise level with a +10 dBA penalty for noise occurring during nighttime (10:00 p.m. to 7:00 a.m.) hours; it is also measured using Community Noise Equivalent Level (CNEL), which is the 24-hour average noise level with a +5 dBA penalty for noise occurring from 7:00 p.m. to 10:00 p.m. and a +10 dBA penalty for noise occurring from 10:00 p.m. to 7:00 a.m. (Caltrans 2013a). Noise levels described by L_{dn} and CNEL usually differ by about 1 dBA. The relationship between the peak-hour L_{eq} value and the L_{dn}/CNEL depends on the distribution of traffic during the day, evening, and night. Quiet suburban areas typically have CNEL noise levels in the range of 40 to 50 dBA, while areas near arterial streets are in the 50 to 60-plus CNEL range. Normal conversational levels are in the 60 to 65-dBA L_{eq} range; ambient noise levels greater than 65 dBA L_{eq} can interrupt conversations (Federal Transit Administration [FTA] 2018).

Vibration

Groundborne vibration of concern in environmental analysis consists of the oscillatory waves that move from a source through the ground to adjacent structures. The number of cycles per second of oscillation makes up the vibration frequency, described in terms of Hz. The frequency of a vibrating object describes how rapidly it oscillates. The normal frequency range of most groundborne vibration that can be felt by the human body starts from a low frequency of less than 1 Hz and goes to a high of about 200 Hz (Crocker 2007).

While people have varying sensitivities to vibrations at different frequencies, in general they are most sensitive to low-frequency vibration. Vibration in buildings, such as from nearby construction activities, may cause windows, items on shelves, and pictures on walls to rattle. Vibration of building components can also take the form of an audible low-frequency rumbling noise, referred to as groundborne noise. Groundborne noise is usually only a problem when the originating vibration spectrum is dominated by frequencies in the upper end of the range (60 to 200 Hz), or when foundations or utilities, such as sewer and water pipes, physically connect the structure and the vibration source (FTA 2018). Although groundborne vibration is sometimes noticeable in outdoor environments, it is almost never annoying to people who are outdoors. The primary concern from vibration is that it can be intrusive and annoying to building occupants and vibration-sensitive land uses.

Vibration energy spreads out as it travels through the ground, causing the vibration level to diminish with distance away from the source. High-frequency vibrations diminish much more rapidly than low frequencies, so low frequencies tend to dominate the spectrum at large distances from the source. Discontinuities in the soil strata can also cause diffractions or channeling effects that affect

the propagation of vibration over long distances (Caltrans 2013b). When a building is impacted by vibration, a ground-to-foundation coupling loss will usually reduce the overall vibration level. However, under rare circumstances, the ground-to-foundation coupling may actually amplify the vibration level due to structural resonances of the floors and walls.

Vibration amplitudes are usually expressed in peak particle velocity (PPV) or RMS vibration velocity. The PPV and RMS velocity are normally described in inches per second. PPV is defined as the maximum instantaneous positive or negative peak of a vibration signal. PPV is often used in monitoring of blasting vibration because it is related to the stresses that are experienced by buildings (Caltrans 2013b).

Existing Noise Setting

The site is located in an urban, developed area. Nearby land uses include commercial uses and single- and multi-family residences located in surrounding neighborhoods. The primary sources of noise on-site and in the surrounding area are motor vehicles from nearby roadways; the greatest vehicle noise would occur from vehicles on the main thoroughfares (SR 57, North State College Boulevard, Nutwood Avenue, and Yorba Linda Boulevard).

To evaluate existing noise levels in the area, five 15-minute noise measurements (ST1 through ST5) and one 24-hour noise measurements (LT1) were taken on and near the Campus Master Plan site on October 10 and 11, 2019, using ANSI Type II integrating sound level meters. Figure 4.7-1 shows the locations of the noise measurements. The noise measurement locations were chosen to provide a representative range of ambient noise levels across the Campus Master Plan site and in the nearby area, especially near existing noise-sensitive residences and roadways. The short-term noise measurement results are shown in Table 4.7-1 and the long-term results are shown in Table 4.7-2. Traffic counts for the short-term noise measurements are shown in Table 4.7-3. Detailed noise meter outputs are included in Appendix L.

Table 4.7-1 Campus Master Plan Vicinity Sound Level Monitoring Results

Measurement	Measurement Location	Sample Times[1]	Approximate Distance to Primary Noise Source	Leq (dBA)	Lmin (dBA)	Lmax (dBA)
1	N. State College Boulevard, near campus police station	8:51 – 9:06 a.m.	60 feet to centerline of North State College Boulevard	68.1	46.5	96.5
2	Yorba Linda Boulevard	9:32 – 9:47 a.m.	60 feet to centerline of Yorba Linda Boulevard	66.3	49.9	80.0
3	East Campus Drive, near SR 57	10:08 – 10:23 a.m.	180 feet to centerline of SR 57	62.1	57.0	74.0
4	Nutwood Avenue	11:04 – 11:19 a.m.	70 feet to centerline of East Clark Avenue	63.4	48.5	74.9
5	East Commonwealth Avenue (residential neighborhood)	9:32 a.m. – 9:47 a.m.	35 feet to centerline of East Commonwealth Avenue	65.5	45.3	85.0

[1] Measurements 1 through 4 taken on October 10, 2019; Measurement 5 taken on October 11, 2019.

See Figure 4.7-1 for Noise Measurement Locations.

Detailed sound level measurement data are included in Appendix L.

Table 4.7-2 Campus Master Plan Site Noise Monitoring Results – Long Term

Sample Time	dBA L_{eq}	Sample Time	dBA L_{eq}
LT1 - N. State College Boulevard, near campus police station, October 10-11, 2019			
8:38 a.m.	69	8:38 p.m.	67
9:38 a.m.	70	9:38 p.m.	67
10:38 a.m.	73	10:38 p.m.	67
11:38 a.m.	69	11:38 p.m.	62
12:38 p.m.	69	12:38 a.m.	61
1:38 p.m.	69	1:38 a.m.	57
2:38 p.m.	69	2:38 a.m.	56
3:38 p.m.	70	3:38 a.m.	57
4:38 p.m.	71	4:38 a.m.	63
5:38 p.m.	72	5:38 a.m.	66
6:38 p.m.	71	6:38 a.m.	68
7:38 p.m.	67	7:38 a.m.	70
		24-hour Noise Level	**69**

Source: Rincon Consultants, field measurements conducted on October 10 and 11, 2019, using ANSI Type II Integrating sound level meter. See Appendix L for detailed measurement data.

Table 4.7-3 Sound Level Monitoring Traffic Counts

Measurement[1]	Roadway	Traffic	Autos	Medium Trucks (2-axle)	Heavy Trucks (3-axle+)
1	North State College Boulevard	15-minute count	342	18	2
		one-hour equivalent	1,368	72	8
		Percentage	**94%**	**5%**	**1%**
2	Yorba Linda Boulevard	15-minute count	139	3	0
		one-hour equivalent	556	12	0
		Percentage	**98%**	**2%**	**0%**
4	Nutwood Avenue	15-minute count	508	8	6
		one-hour equivalent	2,032	32	24
		Percentage	**97%**	**2%**	**1%**
5	East Commonwealth Avenue	15-minute count	66	3	1
		one-hour equivalent	264	12	4
		Percentage	**94%**	**4%**	**2%**

[1] Traffic was not counted for Measurement 3, as the main source of noise, SR 57 traffic, was not visible due to the elevated freeway location.

Detailed sound level measurement data are included in Appendix L.

Figure 4.7-1 Noise Measurement Locations

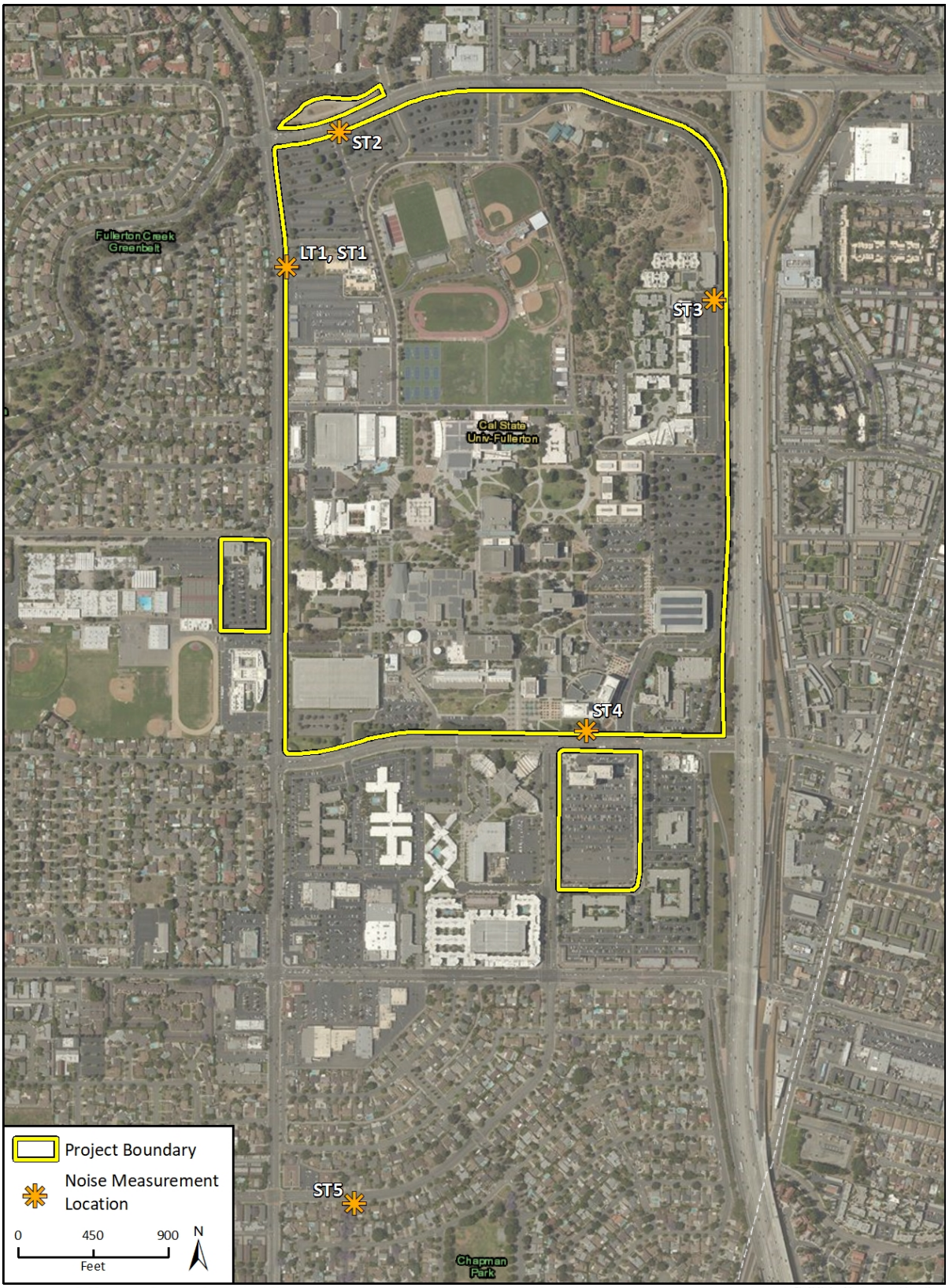

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Fig N Noise Measurement Locations

Sensitive Receptors

Noise exposure goals for various types of land uses reflect the varying noise sensitivities associated with those uses. Noise sensitive uses typically includes single- and multi-family residential, churches, hospitals and similar health care institutions, convalescent homes, libraries, and schools.

Vibration sensitive receivers are similar to noise sensitive receivers, such as residences and institutional uses (e.g., schools, libraries, and religious facilities).

a. Regulatory Setting

Federal

No federal noise requirements or regulations apply directly to the implementation of the Campus Master Plan, but federal agencies have established guidelines and thresholds pertaining to noise and groundborne vibration as they relate to land use compatibility, human response, and structural integrity. These thresholds, as applicable, are discussed below in Section 4.7.2, *Impact Analysis*.

Federal Transit Administration Ground borne Vibration Guidelines

Sections 5 and 6 of the Transit Noise and Vibration Impact Assessment Manual, adopted by the FTA in September 2018, addresses the federal guidelines used to evaluate a project for potential vibration impacts. The vibration impact analysis is a multi-step process used for determining vibration analysis level, determining vibration impact criteria, and evaluating vibration impact. FTA guidelines state that the threshold of perception for humans is approximately 65 vibration decibels (VdB). A vibration level of 85 VdB can result in strong annoyance, and a vibration level of 100 VdB is the threshold of potential damage (FTA 2018). Construction activity can result in varying degrees of ground vibration depending on the equipment and methods employed, and older and more fragile buildings must receive special consideration. These guidelines are advisory and should be used to assess the impacts of ground borne vibrations created from transit and construction sources.

State

California Building Code

CCR Title 24, Building Standards Administrative Code, Part 2, and the California Building Code codify the state noise insulation standards. These noise standards apply to new construction in California to control interior noise levels as they are affected by exterior noise sources. The regulations specify that interior noise levels for residential and school land uses should not exceed 45 dBA CNEL.

California General Plan Guidelines

The California General Plan Guidelines, published by the Governor's Office of Planning and Research, indicate acceptable, specific land use types in areas with specific noise exposure. The guidelines also offer adjustment factors that may be used to arrive at noise acceptability standards that reflect the noise control goals of the community, the particular community's sensitivity to noise, and the community's assessment of the relative importance of noise pollution. These guidelines are advisory, and local jurisdictions, including the City of Fullerton, have the responsibility to set specific noise standards based on local conditions. Please refer to the discussion below, under *The Fullerton Plan*, for the compatibility guidelines adopted by the City of Fullerton.

Caltrans Ground Borne Vibration Guidelines

The Transportation and Construction Vibration Guidance Manual provides guidance on vibration issues associated with the construction, operation, and maintenance of Caltrans projects. These guidelines address vibration criteria and establish thresholds for vibration-related annoyance to people, vibration-related damage to structures, and vibration-related adverse effects to sensitive equipment. Vibration impact criteria developed by the FTA indicates minimum thresholds of impact for different land uses. Minimum vibration thresholds are: 65 VdB for buildings where low ambient vibration is essential for interior operations, 72 VdB for residences and buildings where people normally sleep, and 75 VdB for institutional land uses with primarily daytime uses. Historic and fragile buildings are particularly susceptible to damage caused vibration. Caltrans suggests limiting PPV (in/sec) to 0.5 for historic and old buildings and residences (Caltrans 2013). This manual also addresses vibration prediction and screening assessment for construction equipment, methods that can be used to reduce vibration effects from transportation and construction sources, general procedures for addressing vibration issues, and vibration measurement and instrumentation. Guidelines and procedures provided in this manual should be treated as screening tools for assessing the potential for adverse effects related to human perception and structural damage.

California State University

California State University, Fullerton Hearing Conservation Program

CSUF has established a Hearing Conservation Program to maintain effective control over the harmful effects of excessive noise on students and employees (CSUF 2018). The CSUF Hearing Conservation Program states the following:

> It is the policy of California State University, Fullerton to establish and maintain effective noise control and hearing conservation programs designed to eliminate or control, in so far as is reasonable and practical, overexposure of students, faculty, and staff to harmful noise. The University shall identify noisy areas on campus and shall take steps to protect personnel who work in these areas. When noise cannot be controlled by engineering and administrative controls, the University shall distribute hearing protectors to all employees exposed to an 8-hour time-weighted average noise level of 85 decibels or greater. Under certain conditions, employees shall be required to use hearing protection. The University shall provide, at no cost to employees involved in this program, a hearing program designed to provide information of satisfactory maintenance of employee hearing levels and to ascertain the effectiveness of noise control methods. The purpose of this program is to establish a coordinated approach toward controlling excessive occupational noise exposure as directed by University policy and State law. Authority is given to CSUF through Title 8, Sections 5095 to 5100 of the California Code of Regulations and Title 29, Section 1910.95 of the Code of Federal Regulations.

Furthermore, the Program requires the following:

- Environmental Health and Safety (EHS)
  - Coordinate the campus Hearing Conservation Program, providing consultation to departments according to their specific needs.
  - Conduct personal noise dosimetry to determine time-weighted average (TWA) exposures for individuals and departments.
  - Conduct noise surveys in response to department requests or as a general noise survey.

  - Assist departments in developing methods for noise abatement, reduction or control.
  - Purchase personal protective devices.
  - Establish and conduct an audiometric testing program for affected employees, providing consultation and notification of exam results.
  - Maintain and make available records of exposure measurements and audiometric tests.
  - Maintain training records.

- Departments
  - Ensure that noise control is considered when procuring equipment, machinery, and tools.
  - Identify work areas that may overexpose employees to harmful levels of noise and notify the EHS Office.
  - Develop methods for noise abatement, reduction, or control.
  - Train or arrange training for employees covered by the Hearing Conservation Program; ensure that they read, understand and comply with all appropriate procedures.
  - Ensure that appropriate personal protective equipment is provided to affected employees; enforce the use of such devices when required; ensure that such devices are kept in good repair and maintained in a sanitary manner.

- New employees assigned to work in areas listed above shall be sent to EHS for a baseline audiogram or personal exposure assessments within the first two weeks of their assignment.
- When workers are exposed to an 8-hour time-weighted average [TWA of 85 decibels (dBA)] or greater, the University must institute a hearing conservation program. This program includes monitoring of workplace noise, an audiometric testing program for all exposed workers and an expert evaluation of the test results

California State University, Fullerton Student housing Policies

Student Housing Policies within CSU Housing and Residential Engagement states the following:

> Quiet Hours are Sunday through Thursday (10 p.m. to 8 a.m.) and Friday and Saturday (12 a.m. to 10 a.m.). Quiet Hours also extend to the public areas (i.e. basketball and volleyball courts) and outdoor areas as well as balconies/patios, study rooms, lounges, and student rooms. Each semester beginning at 5 p.m. on the last Friday of classes, through 5 p.m. on the Saturday of finals week, a 24-Hour Quiet Hour policy is in effect. It is during these hours that students should avoid any loud talking or disturbance. Keep TV and stereos at low volume (headsets are suggested for other than low volume use). Courtesy Hours refers to any time during which quiet hours are not in effect. The right to study and/or sleep supersedes the right to be noisy. Courtesy Hours allow residents the authority to ask other community members to comply with their request to study and/or sleep. Students who continually violate quiet hours may be asked to remove the equipment which is causing the disturbance from Housing and Residential Engagement or they may have their Student Housing License Agreement cancelled. Authority is given to CSUF through Title 5, Section 41301 of the California Code of Regulations.

Although CSUF is not subject to standards from The Fullerton Plan or the City's Municipal Code, in lieu of CSU standards, CSUF has determined that the applicable local ordinances for the City of Fullerton shall be used to determine impacts.

Regional and Local

CSUF, as a State entity, is not subject to municipal regulations of local governments for uses on property owned or controlled by CSUF that are in furtherance of the University's education purposes. However, CSUF may consider, for coordination purposes, aspects of local plans and policies for the communities surrounding the campus when it is appropriate and feasible, but it is not bound by those plans and policies in its planning efforts. Therefore, this EIR considers City of Fullerton plans and policies for informational purposes only.

The Fullerton Plan

The Fullerton Plan is the City's governance tool focused on achieving the "Fullerton Vision" (City of Fullerton 2012). The Noise Element in The Fullerton Plan aims to achieve acceptable noise levels throughout the City. The Element provides a basis to control and abate environmental noise in the City and protect residents from unhealthy noise exposure. The Fullerton Plan includes the following goals and policies that apply to the Campus Master Plan:

Goal 8: Protection from the adverse effects of noise.

> **Policy 8.2:** Support projects, programs, policies and regulations to control and abate noise generated by mobile sources.
>
> **Policy 8.3:** Support projects, programs, policies and regulations which ensure noise-compatible land use planning recognizing the relative importance of noise sources in order of community impact, the local attitudes towards these sources, and the suburban or urban characteristics of the environment, while identifying noise sensitive uses.
>
> **Policy 8.4:** Support projects, programs, policies and regulations to control and abate noise generated by stationary sources.
>
> **Policy 8.6:** Support projects, programs, policies and regulations to permit uses where the noise level of the surroundings—after taking into account noise insulation features and other control techniques of the use—is not detrimental to the use.
>
> **Policy 8.7:** Support projects, programs, policies and regulations to permit uses and/or activities where the noise generated by the use and/or activity is not detrimental or otherwise a nuisance to the surroundings.

Table 8 of the Noise Element included below in Table 4.7-4, describes the noise level ranges considered compatible within the City of Fullerton for various land use types. These standards are typically used to ensure suitability of new land uses (such as new residential developments) but may also be used to ensure that existing land uses do not exceed a threshold (i.e., from acceptable to unacceptable) as a result of construction of a nearby proposed project. The Fullerton Plan does not specify interior noise standards.

Table 4.7-4 Land Use Compatibility for Community Noise Exposure

Land Use Category	Community Noise Exposure (dBA CNEL)			
	Normally Acceptable	Conditionally Acceptable	Normally Unacceptable	Conditionally Unacceptable
Residential – Low-Density, Single-Family, Duplex, Mobile Homes	50-60	55-70	70-75	75-95
Residential – Multiple-Family	50-65	60-70	70-75	70-85
Transient Lodging – Motel, Hotels	50-65	60-70	70-80	80-85
Schools, Libraries, Churches, Hospitals, Nursing Homes	50-70	60-70	70-80	80-85
Auditoriums, Concert Halls, Amphitheaters	N/A	50-70	N/A	65-85
Sports Arenas, Outdoor Spectator Sports	N/A	50-75	N/A	70-85
Playgrounds, Neighborhood Parks	50-70	N/A	67.5-77.5	72.5-85
Golf Courses, Riding Stables, Water Recreation, Cemeteries	50-70	N/A	70-80	80-85
Office Buildings, Business Commercial and Professional	50-70	67.5-77.5	75-85	N/A
Industrial, Manufacturing, Utilities, Agriculture	50-75	70-80	75-85	N/A

Source: Fullerton 2012

City of Fullerton Municipal Code

Chapter 15.90 of the City of Fullerton's Municipal Code includes noise standards and regulations. Table 4.7-5 summarizes the noise standards for properties with residential zoning.

Table 4.7-5 City of Fullerton Noise Standards

Location	Time Period	Acceptable Noise Level (dBA)[1]
Exterior	Day (7 a.m. to 10 p.m.)	55
	Night (10 p.m. to 7 a.m.)	50
Interior	Day (7 a.m. to 10 p.m.)	55
	Night (10 p.m. to 7 a.m.)	45

Source: Fullerton Municipal Code Chapter 15.9045
[1] Standards apply to all property within a residential zone.

Chapter 15.90 also states the following regarding operational noise limits:

- Noise standards for a sensitive use:
  a. A "sensitive use" for the purpose of this chapter means any private or public school, hospital, residential care facility for the elderly, and religious institution.
  b. It shall be unlawful for any person at any location within the incorporated area of the city to create any noise that causes the noise level at any sensitive use, while the same is in operation to exceed the noise limits as specified for the Residential Noise Zone, notwithstanding the sensitive use may be located outside of the Residential Noise Zone.
- It shall be unlawful for any person at any location within the incorporated area of the city to create any noise which can be classified as being continuous, reoccurring, predictable, or whose operation of noise-generating capabilities can be stopped or started at a specified time, or to allow the creation of any noise on property owned, leased, occupied or otherwise controlled by such person, which causes the noise level, when measured on the property, either incorporated or unincorporated, to exceed:
  c. Noise level standards for a cumulative period of more than 30 minutes within a 1-hour period.
  d. Noise level standards plus 5 dBA for a cumulative period of more than 15 minutes but less than 30 minutes within a 1- hour period.
  e. Noise level standards plus 10 dBA for a cumulative period of more than 5 minutes but less than 15 minutes within a 1- hour period.
  f. Noise level standards plus 15 dBA for a cumulative period of more than one minute but less than 5 minutes within a 1- hour period.
  g. Noise level standards plus 20 dBA for a cumulative period of less than one minute within a 1-hour period.
- In the event the ambient noise level exceeds any of the five noise limit categories listed above, the cumulative period applicable to the category shall be increased to reflect the ambient noise level.

In addition, Chapter 15.90 establishes allowable hours for construction activities. With the exception of emergency machinery or work, construction activities are allowable only on Monday through Saturday, 7:00 a.m. to 8:00 p.m. Construction activities are prohibited on Sunday and on City-recognized holidays. Construction equipment, vehicles, and work are exempt from the noise level standards in Table 4.7-5, provided that construction activities take place within the allowable time period.

Although construction activity is exempt from the noise standards shown above, for purposes of this analysis, the FTA Transit Noise and Vibration Impact Assessment (FTA 2018) criteria will be used. The FTA provides reasonable criteria for assessing construction noise impacts based on the potential for adverse community reaction. For residential uses, the daytime noise threshold is 80 dBA L_{eq} for an 8-hour period.

4.7.2 Impact Analysis

a. Thresholds of Significance

To determine whether a project would result in a significant noise impact, Appendix G of the CEQA Guidelines requires consideration of whether a project would:

1. Generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the Campus Master Plan in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies;
2. Generation of excessive groundborne vibration or groundborne noise levels; and/or
3. For a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the Campus Master Plan expose people residing or working in the project area to excessive noise levels.

b. Methodology

As state above, CSUF is not subject to standards from The Fullerton Plan or Municipal Code. To complete this analysis, in lieu of CSU standards, CSUF has determined that the applicable local ordinances for the City of Fullerton shall be used to determine impacts. The quantitative standards used for each threshold, described below, are based on the City of Fullerton standards and Appendix G of the CEQA Guidelines. Noise impacts would normally be considered significant if:

Construction and Operational Noise

- Construction noise occurs outside of the City of Fullerton permitted hours (Monday through Saturday, 7:00 a.m. to 8:00 p.m., or if construction occurs on Sunday and on City-recognized holidays.)
- Construction noise at residential land uses exceeds the FTA's criteria for construction noise impacts of 80 dBA L_{eq} for an 8-hour period.
- Operational noise exceeds the City of Fullerton's Municipal Code limits as specified in Table 4.7-5.
- For traffic-related noise, impacts would be considered significant if Campus Master Plan-generated traffic would result in exposure of sensitive receptors to an unacceptable increase in noise levels. For purposes of this analysis, a significant impact would occur if Campus Master Plan-related traffic increases the ambient noise environment of noise-sensitive locations by 3 dBA or more if the locations are subject to noise levels in excess of 70 CNEL for exterior areas or 45 CNEL for interior noise levels, or by 5 dBA or more if the locations are not subject to noise levels in excess of the aforementioned standards.

Vibration

- For human receivers, the vibration level threshold to determine significance is 0.24 in./sec. PPV, is the level at which transient vibration sources (such as construction equipment) are considered to be distinctly perceptible (Caltrans 2013b). For structures, based on AASHTO recommendations, the vibration level threshold to determine significance is 0.2 PPV in/sec.

Construction Noise

Construction noise was estimated using the FHWA Roadway Construction Noise Model (RCNM) (FHWA 2006). RCNM predicts construction noise levels for a variety of construction operations based on empirical data and the application of acoustical propagation formulas. Using RCNM, construction noise levels were estimated at noise sensitive receivers near the Campus Master Plan site. RCNM provides reference noise levels for standard construction equipment, with an attenuation of 6 dBA per doubling of distance for stationary equipment.

Variation in power imposes additional complexity in characterizing the noise source level from construction equipment. Power variation is accounted for by describing the noise at a reference distance from the equipment operating at full power and adjusting it based on the duty cycle of the activity to determine the L_{eq} of the operation (FHWA 2018). Each phase of construction has a specific equipment mix, depending on the work to be accomplished during that phase. Each phase also has its own noise characteristics; some will have higher continuous noise levels than others, and some have high-impact noise levels.

For general construction activities, construction noise would typically be higher during the heavier periods of initial construction (i.e., site preparation and grading work) and would be lower during the later construction phases (i.e., interior building construction). Typical heavy construction equipment during Campus Master Plan project grading and site preparation would include bulldozers, excavators, front-end loaders, dump trucks, and graders. It is assumed that diesel engines would power all construction equipment. Construction equipment would not all operate at the same time or location due to the different tasks performed by each piece of equipment. In addition, construction equipment would not be in constant use during the 8-hour operating day. An excavator, loader, and dump truck were analyzed together for construction noise impacts due to their potential of being used in conjunction with one another and therefore a conservative scenario for the greatest noise generation during general construction activities. Using RCNM to estimate noise associated with construction equipment, maximum hourly noise levels are calculated to be 79.9 dBA L_{eq} at 50 feet (RCNM calculations are included in Appendix L).

Activities using impact devices such as pile drivers or breakers may also be used during Campus Master Plan construction. It is unknown at this stage of planning if these pieces of equipment would be required for construction of Campus Master Plan buildings. A pile driver could be used to drive foundation piles into the ground, and a breaker could be used to break up asphalt and concrete associated with demolition of existing buildings. These devices would typically operate separately from other equipment. Using RCNM to estimate noise associated with construction equipment, maximum hourly noise levels are calculated to be 94.3 dBA L_{eq} at 50 feet for an impact pile driver and 80.0 dBA L_{eq} for a breaker (RCNM Calculations are included in Appendix L).

Groundborne Vibration

The proposed Campus Master Plan does not include any substantial vibration sources associated with operation. Therefore, construction activities have the greatest potential to generate ground-borne vibration affecting nearby receivers, especially during grading and excavation of the Campus Master Plan site. The greatest vibratory source during general Campus Master Plan construction activities would be a vibratory roller. An impact pile driver may be used during impact construction activities, if required. Construction vibration estimates are based on vibration levels reported by Caltrans and the FTA (Caltrans 2013b, FTA 2018). Table 4.7-6 shows typical vibration levels for various pieces of construction equipment used in the assessment of construction vibration (FTA 2018).

Table 4.7-6 Vibration Levels Measured during Construction Activities

Equipment		PPV at 25 ft. (in/sec)
Pile Driver (impact)	Upper range	1.518
	Typical	0.644
Pile Driver (sonic)	Upper range	0.734
	Typical	0.170
Vibratory Roller		0.210

Source: FTA 2018

Vibration limits used in this analysis to determine a potential impact to nearby land uses from construction activities are based on information contained in Caltrans' *Transportation and Construction Vibration Guidance Manual* and the Federal Transit Administration and the FTA *Transit Noise and Vibration Impact Assessment Manual* (Caltrans 2013b; FTA 2018). Maximum recommended vibration limits by AASHTO are identified in Table 4.7-7.

Table 4.7-7 AASHTO Maximum Vibration Levels for Preventing Damage

Type of Situation	Limiting Velocity (in/sec)
Historic sites or other critical locations	0.1
Residential buildings, plastered walls	0.2–0.3
Residential buildings in good repair with gypsum board walls	0.4–0.5
Engineered structures, without plaster	1.0–1.5

Source: Caltrans 2013b

Based on AASHTO recommendations, limiting vibration levels to below 0.2 PPV in/sec at residential structures would prevent structural damage regardless of building construction type. These limits are applicable regardless of the frequency of the source. However, as shown in Table 4.7-8 and Table 4.7-9 potential human annoyance associated with vibration is usually different if it is generated by a steady state or a transient vibration source.

Table 4.7-8 Human Response to Steady State Vibration

PPV (in/sec)	Human Response
3.6 (at 2 Hz)–0.4 (at 20 Hz)	Very disturbing
0.7 (at 2 Hz)–0.17 (at 20 Hz)	Disturbing
0.10	Strongly perceptible
0.035	Distinctly perceptible
0.012	Slightly perceptible

Source: Caltrans 2013b

Table 4.7-9 Human Response to Transient Vibration

PPV (in/sec)	Human Response
2.0	Severe
0.9	Strongly perceptible
0.24	Distinctly perceptible
0.035	Barely perceptible

Source: Caltrans 2013b

As shown in Table 4.7-8, the vibration level threshold at which steady vibration sources are considered to be distinctly perceptible is 0.035 in/sec PPV. This is roughly equivalent to the FTA identified threshold of 78 VdB for assessing impacts to residential land uses from infrequent events. This threshold is used for assessing passing trains in the FTA Manual. However, as shown in Table 4.7-9, the vibration level threshold at which transient vibration sources (such as construction equipment) are considered to be distinctly perceptible is 0.24 in/sec PPV. This is roughly equivalent to 94 VdB. This analysis uses the distinctly perceptible threshold for purposes of assessing vibration impacts.

Although groundborne vibration is sometimes noticeable in outdoor environments, groundborne vibration is almost never annoying to people who are outdoors; the vibration level threshold for human perception is assessed at occupied structures (FTA 2018). Therefore, vibration impacts are assessed at the structure of an affected property.

Operational Noise Sources

Noise sources associated with operation of the Campus Master Plan would include vehicular traffic, landscape maintenance, general site activities (e.g., students conversing), the event center, and mechanical equipment associated with buildings (e.g., HVAC units), speakers from the drive-through restaurants, and the car wash. Due to the distances and low noise levels associated with landscape maintenance and general site activities, these sources are not considered substantial noise generators and are not discussed further. In addition, as the event center is an indoor facility located within the campus interior, events held at the arena would not be noticeably audible at nearby noise-sensitive receivers and are not discussed further.

MECHANICAL EQUIPMENT

Mechanical HVAC units associated with Campus Master Plan buildings would have the potential to generate noise levels that run continuously during the day and night. HVAC units are assumed to be installed on the rooftops of each building. Specific planning information is not available for the HVAC units at this time; modeling assumed the use of large rooftop units, Trane QuietCurb units, that can range from 20 to 130 tons. These units have a supply fan and can also have an exhaust fan. The supply fan's discharge and return generate a sound power level of 94.1 dBA and 89.4 dBA, respectively; the exhaust fan's return generates a sound power level of 97.1 dBA (the exhaust fan does not have a discharge fan). Manufacturer's specifications for the HVAC unit are included in Appendix L.

The largest individual building anticipated with Campus Master Plan construction would be the faculty housing building located in the southern portion of campus. Assuming all faculty housing is located in one-building, this would result in a building at an estimated 540,000 square feet. For this

analysis, it was assumed to be a six-story building. Due to the large building size, this building was considered in the analysis for a conservative estimate. A typical assumption for the amount of HVAC needed is one ton of HVAC for every 600 square feet of building space. Therefore, the faculty housing building is estimated to need 900 tons of HVAC. Assuming 130-ton HVAC units, seven HVAC units would be required.

On larger buildings, the HVAC units would potentially be spread throughout the rooftop. For the purposes of this analysis, it is assumed that up to four 130-ton HVAC units would be clustered in one area. It is also assumed that a cluster may be located near the edge of the building, which is a conservative assumption as this would place the HVAC units closer to the nearest noise sensitive receivers, when actual design may have the HVAC clusters located closer to the center of the building, further from the nearest noise-sensitive receivers. The units were conservatively assumed not to include noise attenuation provided by a parapet wall. All HVAC units were modeled operating at 100 percent during all hours; this is conservative as the HVAC units would likely not all be utilized simultaneously during the day and the use would be reduced at nighttime. In addition, the supply and exhaust fans were assumed to generate noise from the same point, when in reality the fans may be located at different areas of the HVAC unit and one or both of the fans may be attenuated by orientation and structures to nearby noise-sensitive receivers.

Traffic Noise

Campus Master Plan-generated traffic would increase noise levels on surrounding roadways, including on North State College Boulevard, Nutwood Avenue, Yorba Linda Boulevard, East Chapman Avenue, Associated Road, and Commonwealth Avenue. To determine the noise level increase from Campus Master Plan traffic, traffic noise was modeled with the FHWA RD-77-108 Traffic Noise Prediction Model. The model is a conservative, straight line model that does not consider attenuation from topography or buildings. Traffic noise was modeled for the following scenarios provided in the Campus Master Plan traffic analysis (Fehr & Peers 2019): Existing, Existing Plus Project, Cumulative, and Cumulative Plus Project. Traffic volumes for these scenarios are shown in Table 4.7-10.

Table 4.7-10 Existing and Future Traffic Volumes

			Traffic Counts (Average Daily Trips)			
Roadway	Segment	Speed Limit	Existing	Existing Plus Project	Cumulative	Cumulative Plus Project
North State College Boulevard	From SR 91 to Fender Avenue	40	22,952	25,030	24,830	25,850
	From Fender Avenue to Nutwood Avenue	40	24,321	26,640	25,470	26,650
	From Nutwood Avenue to Yorba Linda Boulevard	40	30,625	30,870	34,960	34,970
	From Yorba Linda Boulevard to SR 90	40	25,097	25,220	27,730	28,100

Roadway	Segment	Speed Limit	Traffic Counts (Average Daily Trips)			
			Existing	Existing Plus Project	Cumulative	Cumulative Plus Project
Nutwood Avenue	From North State College Boulevard to N Placentia Avenue	35	21,796	25,540	22,130	24,770
Nutwood Avenue/Primrose Avenue	From Placentia Avenue to Bradford Avenue	35	1,494	1,630	3,390	3,400
Yorba Linda Boulevard	From North State College Boulevard to Placentia Avenue	40	38,598	41,890	40,050	41,730
East Chapman Avenue	From North State College Boulevard to SR 57	40	34,801	34,810	36,850	36,860
	From SR 57 to Bradford Avenue	40	24,067	24,640	28,030	28,210
Associated Road	From SR 90 to Bastanchury Road	40	11,929	12,370	13,270	13,430
	From Bastanchury Road to Yorba Linda Boulevard	40	23,795	26,120	24,870	25,650
Commonwealth Avenue	From Nutwood Avenue to Chapman Avenue	30	10,190	11,280	11,980	13,310
	From E. Chapman Avenue to North State College Boulevard	30	9,287	9,430	12,400	12,410

Source: Fehr & Peers 2019

The traffic speeds utilized in the model, determined by the most applicable speed limit signs on or near each segment, are also shown in Table 4.7-10. To determine the vehicle classification mix for modeling, the traffic mixes observed for the site measurements were used, as shown in Table 4.7-3. For the purposes of modeling, the peak hour traffic volume was utilized in the model to determine the peak hour L_{eq}. The CNEL is estimated to be equivalent to the peak hour L_{eq}. Peak hour traffic was assumed to be 10 percent of the ADT.

c. Impact Analysis

Threshold 1:	Would the project result in generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?

Impact N-1 **IMPACT-RELATED AND MECHANICAL EQUIPMENT USED DURING CONSTRUCTION AND OPERATION OF THE CAMPUS MASTER PLAN WOULD RESULT IN NOISE LEVEL INCREASES THAT WOULD EXCEED APPLICABLE CONSTRUCTION AND OPERATIONAL NOISE STANDARDS AT NEARBY NOISE SENSITIVE RECEIVERS. THIS IS A POTENTIALLY SIGNIFICANT IMPACT THAT CAN BE REDUCED TO LESS THAN SIGNIFICANT WITH MITIGATION.**

Construction

GENERAL CONSTRUCTION ACTIVITIES

The nearest noise-sensitive receptors Campus Master Plan construction activities would be on campus buildings such as residential and academic buildings, and off-site multi-family residential buildings. Over the course of a typical construction day, construction equipment would be located as close as 25 feet to the nearest noise-sensitive campus buildings and 50 feet to the nearest off-site multi-family residential buildings (the multi-family complexes to the south of College Place and east of Langsdorf Drive near the southern extent of the campus), but would typically be located at an average distance further away due to the nature of construction (i.e., each piece of construction equipment would work in different locations throughout the day and average a further distance). Therefore, it is conservatively assumed that over the course of a typical construction day the construction equipment would operate, on average, 75 feet from the nearest noise-sensitive campus buildings and 100 feet from the nearest off-site multi-family residential buildings. At a distance of 75 feet and 100 feet, an excavator, loader, and a dump truck would generate a noise level of 76.4 dBA L_{eq} and 73.9 dBA L_{eq}, respectively (RCNM calculations are included in Appendix L). Therefore, Campus Master Plan construction activities would not exceed FTA's criteria for construction noise impacts at residential land uses of 80 dBA L_{eq} for an 8-hour period. Noise from general on campus construction activities from the Campus Master Plan would be less than significant.

IMPACT-RELATED CONSTRUCTION ACTIVITIES

Use of impact devices, such as an impact pile driver and a breaker, would potentially occur within the same distances to noise-sensitive land uses as general construction activities described above. At a distance of 75 feet and 100 feet, a pile driver would generate a noise level of 90.8 dBA L_{eq} and 88.3 dBA L_{eq}, respectively (RCNM calculations are included in Appendix L). The distance at which a pile driver would generate 80 dBA L_{eq} would be 260 feet. Therefore, if pile driving occurs within 260 feet of noise-sensitive campus buildings or off-site residences, impacts would be potentially significant.

At a distance of 75 feet and 100 feet, a breaker would generate a noise level of 76.5 dBA L_{eq} and 74.0 dBA L_{eq}, respectively. Therefore, construction activities involving a breaker would not exceed FTA's criteria for construction noise impacts at residential land uses of 80 dBA L_{eq} for an 8-hour period, and impacts would be less than significant.

Operation

Campus Master Plan facilities would intensify noise sources compared to existing conditions. Existing campus and off-site noise-sensitive receivers near the Campus Master Plan site may periodically be subject to noise associated with operation of the Campus Master Plan, which includes stationary noise from mechanical equipment and Campus Master Plan-generated traffic.

MECHANICAL EQUIPMENT

For interior noise levels, this analysis conservatively assumes no vertical distance from the HVAC units to the nearest noise-sensitive receivers, as the HVAC units may be at a similar height to the building facades of nearby buildings. For exterior noise levels, which are typically located on the ground level, and given that the majority of Campus Master Plan buildings are six stories in height (approximately 90 feet from the rooftop to ground level), an extra 90 feet was added to the horizontal distance to the nearest noise-sensitive receivers to account for the vertical distance. Given these assumptions for exterior noise, HVAC unit clusters may be located approximately 140 feet from on-campus noise-sensitive land uses (apartments and academic buildings) and 170 feet from off-campus noise-sensitive land uses (the apartment complexes to the south of College Place and east of Langsdorf Drive near the southern extent of the campus). For interior noise, HVAC unit clusters may be located approximately 50 feet from on-campus noise-sensitive land uses (apartments and academic buildings) and 80 feet from off-campus noise-sensitive land uses (the apartment complexes to the south of College Place and east of Langsdorf Drive near the southern extent of the campus).

A cluster of 4 HVAC units operating at a distance of 140 feet and 170 feet would generate a noise level of 64.9 dBA and 63.2 dBA, respectively. Therefore, HVAC units at the closest Campus Master Plan buildings to noise-sensitive uses would exceed the City of Fullerton's exterior noise standards for noise-sensitive uses of 55 dBA from 7:00 a.m. to 10:00 p.m. and 50 dBA from 10:00 p.m. to 7:00 a.m. An HVAC cluster would have the potential to exceed 50 dBA when within 780 feet of the nearest noise-sensitive use. Therefore, operational noise impacts from HVAC units to exterior areas would be potentially significant.

A cluster of four HVAC units operating at a distance of 50 feet and 75 feet would generate a noise level of 73.9 dBA and 69.8 dBA, respectively. Standard construction techniques for wood-frame construction buildings required under the CBC typically achieve a minimum 25-dBA reduction from exterior sources at interior locations when the windows are in a closed position. Therefore, a 25-dBA reduction is assumed for the exterior noise levels at the building facades. This would result in the HVAC units operating at a distance of 50 feet and 75 feet generating an interior noise level at nearby noise-sensitive receivers of 48.9 dBA and 44.8 dBA, respectively. Therefore, HVAC units at the closest Campus Master Plan buildings to noise-sensitive uses would exceed the City of Fullerton's interior noise standards for noise-sensitive uses of 45 dBA from 10:00 p.m. to 7:00 a.m., but would not exceed the standard of 55 dBA from 7:00 a.m. to 10:00 p.m. An HVAC cluster would have the potential to exceed 45 dBA at an interior location when within 78 feet of the nearest noise-sensitive use. Therefore, operational noise impacts from HVAC units to interior areas would be potentially significant.

OFF-SITE TRAFFIC NOISE

Table 4.7-11 summarizes the traffic noise modeling results. As shown in the table, existing noise levels would increase by up to 0.7 dBA under the Existing Plus Project scenario and 0.5 dBA under the Cumulative Plus Project scenario, which would not exceed the 3 dBA criteria for off-site traffic

noise impacts. Therefore, the Campus Master Plan would not result in a substantial permanent increase in ambient noise levels above levels existing without the Campus Master Plan from Campus Master Plan-generated traffic. Impacts would be less than significant. Impacts would be reduced to less than significant.

Table 4.7-11 Off-site Traffic Noise Levels

	Roadway Noise (dBA CNEL)[1]							
Roadway/Segment	**Existing**	**Existing + Project**	**Noise Level Increase**	**Exceed Criteria?[2]**	**Cumulative**	**Cumulative + Project**	**Noise Level Increase**	**Exceed Criteria?[2]**
State College Boulevard								
From SR 91 to Fender Avenue	71.5	71.9	0.4	No	71.9	72.0	0.1	No
From Fender Avenue to Nutwood Avenue	71.8	72.2	0.4	No	72.0	72.2	0.2	No
From Nutwood Avenue to Yorba Linda Boulevard	72.8	72.8	0	No	73.3	73.3	0	No
From Yorba Linda Boulevard to SR 90	71.9	71.9	0	No	72.3	72.4	0.1	No
Nutwood Avenue								
From North State College Boulevard to N. Placentia Avenue	69.3	70.0	0.7	No	69.4	69.9	0.5	No
Nutwood Avenue/Primrose Avenue								
From N. Placentia Avenue to Bradford Avenue	57.7	58.1	0.4	No	61.2	61.3	0.1	No
Yorba Linda Boulevard								
From North State College Boulevard to Placentia Avenue	72.4	72.7	0.3	No	72.5	72.7	0.2	No
East Chapman Avenue								
From North State College Boulevard to SR 57	73.3	73.3	0	No	73.6	73.6	0	No
From SR 57 to Bradford Avenue	71.7	71.8	0.1	No	72.4	72.4	0	No
Associated Road								
From SR 90 to Bastanchury Road	67.3	67.4	0.1	No	67.7	67.8	0.1	No

Roadway/Segment	Roadway Noise (dBA CNEL)[1]							
	Existing	Existing + Project	Noise Level Increase	Exceed Criteria?[2]	Cumulative	Cumulative + Project	Noise Level Increase	Exceed Criteria?[2]
From Bastanchury Road to Yorba Linda Boulevard	70.3	70.7	0.4	No	70.5	70.6	0.1	No
Commonwealth Avenue								
From Nutwood Avenue to E. Chapman Avenue	68.4	68.9	0.5	No	69.1	69.6	0.5	No
From Chapman Avenue to North State College Boulevard	68.0	68.1	0.1	No	69.3	69.3	0	No

[1] The modeled locations were at 50 feet from the roadway centerline.

[2] For purposes of this analysis, a significant impact would occur if Campus Master Plan-related traffic increases the ambient noise environment of noise-sensitive locations by 3 dBA or more if the locations are subject to noise levels in excess of 70 CNEL for exterior areas or 45 CNEL for interior noise levels, or by 5 dBA or more if the locations are not subject to noise levels in excess of the aforementioned standards.

Mitigation Measures

N-1 Pile Driver Noise and Vibration Reduction Measures

If pile driving is to be used within 260 feet of any occupiable structure on- or off- campus during Campus Master Plan project construction, one of the following measures shall be implemented:

- Use of a pile driver shall not occur within 260 feet of a structure; or
- A Campus Master Plan-specific noise and vibration impact analysis shall be conducted that shall consider the type of pile driver used and potential noise and vibration levels at structures within 260 feet. If, after consideration of the type of pile driver used and other factors of the environment, noise levels do not exceed 80 dBA (8-hour) and vibration levels do not exceed the distinctly perceptible impact for humans of 0.24 in/sec PPV and the structural damage impact to residential structures of 0.2 in/sec PPV, construction may proceed without additional measures. If, after consideration of the type of pile driver used and other factors of the environment, noise levels exceed 80 dBA (8-hour) or vibration levels exceed the distinctly perceptible impact for humans of 0.24 in/sec PPV or the structural damage impact to residential structures of 0.2 in/sec PPV, additional measures shall be implemented to reduce noise and vibration levels below threshold. These measures may include, but not be limited too, use of temporary noise barriers or performing pile driving at a further distance from the noise-sensitive land use.

N-2 HVAC Noise Reduction Measures

Concurrent with design review and prior to the approval of building permits, CSUF shall require a Campus Master Plan-specific design plan for projects demonstrating that the noise level from operation of HVAC units shall not cumulatively exceed the following noise level limits at receiving noise-sensitive land uses as specified in Fullerton Municipal Code Chapter 15.9045:

- For exterior locations, 55 dBA from 7:00 a.m. to 10:00 p.m. and 50 dBA from 10:00 p.m. to 7:00 a.m.
- For interior locations, 55 dBA from 7:00 a.m. to 10:00 p.m. and 45 dBA from 10:00 p.m. to 7:00 a.m.

Noise control measures shall include, but are not limited to, the selection of quiet equipment, equipment setbacks, silencers, and/or acoustical louvers.

Significance After Mitigation

Impacts from construction using a pile driver would be less than significant with implementation of Mitigation Measure N-1.

Impacts from operational noise from HVAC units would be less than significant with implementation of Mitigation Measure N-2.

Threshold 2:	Would the project result in generation of excessive groundborne vibration or groundborne noise levels?

Impact N-2 VIBRATION FROM PILE DRIVING DURING CAMPUS MASTER PLAN PROJECT CONSTRUCTION MAY EXCEED APPLICABLE STANDARDS. THIS IS A POTENTIALLY SIGNIFICANT IMPACT THAT CAN BE REDUCED TO LESS THAN SIGNIFICANT WITH MITIGATION.

Construction activities known to generate excessive ground-borne vibration include pile driving. It is unknown at this stage of planning if pile driving would be required to drive foundation piles into the ground. This analysis conservatively assumes the use of an impact pile driver; the upper range for an impact pile driver would create approximately 1.518 in/sec PPV at a distance of 25 feet (FTA 2018). Per estimated distances from Campus Master Plan project construction to existing buildings, a pile driver may be used within 50 feet of the existing buildings. This would equal a vibration level of 0.7086 in/sec PPV at the nearest buildings, which would exceed the distinctly perceptible impact for humans of 0.24 in/sec PPV, and the structural damage impact to residential structures of 0.2 in/sec PPV. The distance to which an impact pile driver would exceed 0.2 in/sec PPV would be approximately 160 feet. Therefore, if an impact pile driver is used within 160 feet of the nearest building, impacts from vibration would be potentially significant.

The greatest anticipated source of vibration during general Campus Master Plan project construction activities would be from a vibratory roller, which would be used during paving activities and may be used within 50 feet of the nearest buildings. A vibratory roller would create approximately 0.210 in/sec PPV at a distance of 25 feet (FTA 2018). This would equal a vibration level of 0.098 in/sec PPV at a distance of 50 feet. This would be lower than what is considered a distinctly perceptible impact for humans of 0.24 in/sec PPV, and the structural damage impact to residential structures of 0.2 in/sec PPV. Therefore, impacts associated with vibration from the roller (and other potential general construction equipment) would be less than significant.

Implementation of the Campus Master Plan would not involve substantial vibration sources associated with operation. Operational vibration impacts would be less than significant.

Mitigation Measures

See Mitigation Measure N-1, above.

Significance After Mitigation

Impacts associated with vibration from construction activities would be less than significant with implementation of Mitigation Measure N-1.

4.8 Population and Housing

This section describes the existing and projected population and housing conditions at CSUF and describes the growth in population (students, faculty, staff, and their families) directly related to the Campus Master Plan.

It should be noted that changes in population, employment, and housing supply dynamics are social and economic effects, rather than environmental effects. Section 15382 of the CEQA Guidelines states: "An economic or social change by itself shall not be considered a significant effect on the environment." According to CEQA, these effects should be considered in an EIR only to the extent that they create adverse impacts on the physical environment. This section of the EIR examines the potential for the Campus Master Plan to result in a substantial increase in employment and population, and the resultant demand for housing.

4.8.1 Environmental Setting

a. Setting

SCAG develops and maintains regional and small area socio-economic forecasting and allocation models for Imperial, Los Angeles, Orange, Riverside, San Bernardino and Ventura counties (SCAG 2020). These estimates and projections are used for both federal and state long-range planning efforts. Additionally, these forecasts are used to help develop and analyze potential impacts stemming from both public and private sector projects.

SCAG projects three major growth indicators: population, households, and employment, for the region. SCAG's regional forecast maintains the balance between employment, population, and households due to their interrelationship, assuming that employment growth is a driving force of regional population and household growth. Population, household and employment estimates, and forecasts are maintained at the jurisdictional and county unincorporated level. The employment-population-household (EPH) forecast framework has been the basis for developing the regional growth forecast for the SCAG region (SCAG 2020).

Regional Forecast

Table 4.8-1 through Table 4.8-3 provide population, household, and employment forecasts through 2040 for the City of Fullerton and surrounding cities.

Table 4.8-1 SCAG Populations for the City of Fullerton and Surrounding Cities

City Name	2020 Population	2035 Population	2040 Population
Fullerton	145,700	158,300	160,500
Brea	48,700	50,600	50,600
Anaheim	358,600	382,000	403,400
La Habra	64,800	68,300	68,500
Placentia	53,100	58,500	58,400
Yorba Linda	69,300	70,400	70,500
Buena Park	84,100	90,800	92,500
Total	**824,300**	**878,900**	**904,400**

Source: SCAG Draft 2016 Growth Forecast (2014)

Table 4.8-2 SCAG Households for the City of Fullerton and Surrounding Cities

City Name	2020 Households	2035 Households	2040 Households
Fullerton	48,800	54,300	55,200
Brea	17,300	18,100	18,100
Anaheim	104,600	114,100	122,600
La Habra	20,300	21,500	21,700
Placentia	17,000	18,900	18,900
Yorba Linda	22,900	23,300	23,400
Buena Park	24,800	27,200	27,900
Total	**255,700**	**277,400**	**287,800**

Source: SCAG Draft 2016 Growth Forecast (2014)

Table 4.8-3 SCAG Employment for the City of Fullerton and Surrounding Cities

City Name	Employment 2020	Employment 2035	Employment 2040
Fullerton	78,000	91,600	94,100
Brea	51,800	53,400	53,700
Anaheim	207,000	236,000	245,600
La Habra	19,000	19,700	19,900
Placentia	21,600	23,200	23,500
Yorba Linda	16,800	17,600	17,700
Buena Park	37,800	39,500	39,800
Total	**432,000**	**481,000**	**494,300**

Source: SCAG Draft 2016 Growth Forecast (2014)

Translating Population into Housing and Employment

Based on SCAG's population forecast provided in Table 4.8-1, the City of Fullerton has the second highest population of all the cities in this area of northeastern Orange County. The populations of these cities are projected to increase by 2040, with the population of Fullerton expected to increase by approximately 14,800. By 2040, SCAG projects the total population to be approximately 904,400, of which Fullerton and Anaheim will account for approximately 18 percent.

Additionally, the SCAG estimates provided in Table 4.8-2 indicate that the City of Fullerton has the second highest number of households in this area. The number of households is projected to increase for all of these cities by 2040. The number of households within the City of Fullerton is projected to grow by approximately 6,400 households. By 2040, SCAG projects the total number of households for all surrounding cities to be approximately 287,800. The number of households for Fullerton will account for approximately 19 percent of SCAG's projected 2040 total for this area.

Based on SCAG's 2020 employment (jobs) and household estimates, there are 1.60 jobs per household in Fullerton. The estimated jobs-to-household ratio for Orange County by 2020 is 1.61. Consequently, Fullerton is neither job-rich nor job-poor in comparison to Orange County as a whole. By 2040, 1.7 jobs per household is predicted for the City of Fullerton and 1.6 jobs per household for all of Orange County. Based on these projections, the City of Fullerton is expected to be slightly more job-rich compared to Orange County as a whole.

City of Fullerton

The CSUF campus is located within the City of Fullerton. The City of Fullerton's estimated 2019 population is 142,824 (DOF 2019). Table 4.8-4 provides the state's 2019 estimates of population and housing for the City of Fullerton and Orange County as a whole.

Table 4.8-4 Current Housing and Population

	City of Fullerton	Orange County
Housing Units[1]	49,541	1,104,164
Population[1]	142,824	3,222,498
Employment[2]	65,071	1,726,003
Persons per Household	2.95	3.03

[1]DOF 2019
[2]DOF E-5, May 2018

As shown in Table 4.8-4, the City of Fullerton's population of 142,824 comprises about 4.4 percent of the countywide population of 3,222,498. The City's 49,541 housing units comprise about 4.5 percent of the County's 1,104,164 total housing units. The average number of persons per household in the City of Fullerton is 2.95, which is 17.5 percent lower than the countywide average of 3.03 persons per household.

CSU Fullerton Campus Population

In an effort to keep with its state charter as well as responding to projections of increased enrollment, the CSU Board of Trustees has directed each campus of the CSU system to take the

necessary steps to accommodate additional systemwide enrollment increases. Each year, the CSU negotiates with the State of California for funding to support planned enrollment growth as part of the annual budgeting process. The annual state budget identifies anticipated enrollment growth systemwide for the CSU system each year. According to the 2019-2020 California State Budget, the state expects the CSU system to accommodate growth in enrollment of 10,000 FTES during that period (DOF 2019). Following negotiation, the CSU system allocates enrollment growth funding for California residents according to an enrollment target for each of the 23 CSU campuses. It is expected that each campus manages their enrollments within a small margin of error around the target because they receive state and CSU funding only for the targeted number.

Since the founding of CSUF in 1957, the campus has greatly expanded due to increases in both City and student populations. Historically, there have been three principal master planning efforts, also referred to as Phases; Phase 1: 1960 Master Plan (1960-1969), Phase 2: 1969 Master Plan (1969-1974), Phase 3: 1974 Master Plan (1974-1975). Phase 1 covered a 20-year period from 1960 to 1980 and planned for 35 baccalaureate and 24 postgraduate degrees were planned for a student body of 20,000 and a faculty of 1,000 full-time instructors. By 1968, the start of Phase 2, CSUF had reached over half of their expected enrollment, with a total of 10,750 students enrolled for the Fall semester. A year later, that number increased to 12,793 students. At this point, CSUF started implementing additional components of Phase 2. By the mid 1970's, Phase 3 was a high necessity due to Fullerton's growth as a college city, partially because of CSUF. In the last ten years, campus enrollment has grown an average of 1.2 percent per year, with the last five years growing by approximately 2 percent per year. Additionally, there has been an increase of faculty/staff of approximately 704 between 2010 and 2019 to help support the growing student population.

CSUF has met maximum enrollment capacity, becoming the most populous campus in the CSU system (CSUF 2019b). The number of FTES[1] at CSUF is anticipated to reach 32,000 by 2039, an increase of 5,000 students over the course of the Campus Master Plan. Projected growth rate assumes a one percent annual growth rate, or approximately 350 FTES per year. To accommodate projected FTES enrollment growth, approximately 1,000 faculty/staff will be hired to help service the student population. Campus population relevant to the analysis in this section consists of students, faculty, and staff. Table 4.8-5 shows the projected growth rate of FTES over the life of the master plan.

Table 4.8-5 CSUF FTES Enrollment Growth Projections

2018	2022	2026	2030	2034	2038	2039
25,911	26,963	28,057	29,197	30,382	31,616	31,932

Notes: FTES calculated estimating a 1.0 percent growth rate

Source: Flad Architects 2018

CSU Fullerton Campus Housing

Up until the 1990's, CSUF was fully a commuter campus. However, CSUF's enrollment rate quickly initiated the need for campus housing. Through the 1990's, campus housing was built along the eastern border of the campus to create a separation between housing and the campus core.

[1] The FTES calculation is based on the assumptions that a full-time undergraduate student is expected to enroll in 15 units each term (i.e., quarter) and a full-time graduate student is expected to enroll in 12 units each term (i.e., quarter). FTES balances out the amount of instruction involved and level of academic instruction required since not all students take these loads each term. As average unit load changes, the ratio between student headcount and FTES also changes,

Today, the CSUF campus includes a varied mix of on-campus housing types, including residence halls and student apartments. All on-campus housing units are located on the northeast corner of campus. Figure 4.8-1 shows the location of the on-campus residence halls.

There are currently 13 different residence halls on campus, each housing a mix of double and triple occupancy rooms. Additionally, double and single occupancy bedrooms are available in select apartment buildings. Apartment buildings are larger shared living spaces equipped with a shared living room, dining room, and kitchen. Double occupancy accommodations are in three-bedroom apartments housing six students. Single occupancy accommodations are in four-bedroom apartments housing four residents (CSUF 2019a).

Though a large percentage of the freshman student body live in on-campus dorms, there is a portion of both students and faculty/staff that live off campus and commute. In 2011, the Daily Titan, the university's newspaper, surveyed 100 students on their commute to and from campus. Approximately 82 percent of students commute to campus by car, five percent of students by bus, six percent of students walk, five percent of students bike, one percent of students motorcycle, and one percent of students take the train (Daily Titan 2011). It is reasonable to assume that the off-campus student body live in the City of Fullerton or surrounding cities in either off-campus apartment housing or single-family homes. Likewise, it is reasonable to assume that faculty/staff that commute to campus live in the surrounding region, if not the immediate vicinity to CSUF in either single-family homes or multi-family housing. The Campus Master Plan aims to reduce the amount of commuting to campus to make a more campus-centered environment and reduce overall VMT and GHG emissions.

Figure 4.8-1 Location of Campus Residence Halls

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Fig 4_7-1 Location of Campus Residence Halls

4.8.2 Regulatory Setting

The discussion contained in this section focuses on the regulatory setting relating to the CSUF campus and CSU system-wide planning. No federal laws or regulations relating to population or housing apply to the Campus Master Plan.

State

California Education Code

The California Education Code contains several provisions mandating CSU enrollment access levels, to ensure the CSU system accommodates all eligible California resident students. Section 66202.5 of the Education Code states the following:

> The State of California reaffirms its historic commitment to ensure adequate resources to support enrollment growth, within the systemwide academic and individual campus plans to accommodate eligible California freshmen applicants and eligible California Community College transfer students, as specified in Sections 66202 and 66730.
>
> The University of California and the California State University are expected to plan that adequate spaces are available to accommodate all California resident students who are eligible and likely to apply to attend an appropriate place within the system. The State of California likewise reaffirms its historic commitment to ensure that resources are provided to make this expansion possible and shall commit resources to ensure that students from enrollment categories designated in subdivision (a) of Section 66202 are accommodated in a place within the system.

Similarly, Section 66011(a) of the California Education Code provides that all resident applicants to California institutions of public higher education who are determined to be qualified by law or by admission standards established by the respective governing boards should be admitted to either a district of the California Community Colleges, in accordance with Section 76000, the CSU, or the University of California. Section 66741 of the California Education Code requires acceptance of qualified transfer students at the advanced standing level.

CSU Five-Year Plan and Operating Budget

In keeping with its state charter and in response to projections of continued increases in demand for higher education enrollment and to meet California's future workforce needs, the CSU Board of Trustees has directed each campus of the CSU to take the necessary steps to accommodate additional systemwide enrollment increases. The CSU Five-Year Plan allows the Chancellor's Office to examine development and updates of on-campus facilities within the CSU system over a five-year period. The primary objective of the Five-Year Plan for the CSU is to provide facilities appropriate to the CSU's approved educational programs to create environments conducive to learning, and to ensure that the quality and quantity of facilities at the 23 campuses serve the students equally well.

The Board of Trustees requires that every campus have a physical master plan for existing and anticipated facilities to accommodate a specified academic year FTES enrollment at an estimated target date, in accordance with approved educational policies and objectives (CSU 2012). Updated annually, the Five-Year Plan for CSUF identifies priority projects, funding sources, systemwide needs, and self-support reserves for student housing in the 2020-21 academic year. It also notes a five

percent projected 2021-22 bed space capacity per estimated student headcount at CSUF; the lowest of all CSU campuses, based on multi-year projections (CSU 2019b).

Each year, the CSU negotiates with the State of California for funding to support planned enrollment growth as part of the annual budget process. The annual state budget identifies anticipated enrollment growth systemwide for the CSU each year; according to the 2019-2020 California State Budget, the state expects the CSU to accommodate growth in enrollment of 10,000 FTES during that period (CSU 2019c). Following negotiation, the CSU allocates enrollment growth funding for California residents according to an enrollment target for each of the 23 CSU campuses. Campuses are expected to manage their enrollments within a small margin of error around the target because they receive state/CSU funding only for the targeted number.

California State University Graduation Initiative 2025

Graduation Initiative 2025 is the CSU's initiative to increase graduation rates for all CSU students while eliminating opportunity and achievement gaps. Through this initiative the CSU strives to ensure that all students have the opportunity to graduate in a timely manner according to their personal goals, positively impacting their future and producing the graduates needed for the California and national workforce. The Graduation Initiative 2025 establishes the following goals for 2025: 40 percent freshman four-year graduation rate, 70 percent freshman six-year graduation rate, 45 percent transfer two-year graduation rate, 85 percent transfer four-year graduation rate, and eliminate all equity gaps for underrepresented minorities and Pell Grant-eligible students to achieve equity. To achieve this goal, CSUF needs to increase its capacity to support students both academically, in the form of additional programs and physical academic space, and with sufficient housing and services that ultimately support students and the academic mission of university.

CSU Basic Needs Initiative

The CSU Basic Needs Initiative was based on the results of the 2018 Study of Student Basic Needs and establishes support programs at CSU campus. One of the goals of the initiative is to provide students with on-campus emergency housing or vouchers for off-campus housing. Four campuses provide assistance with long-term housing arrangements (CSU 2019d).

The State Dormitory Construction Fund

The State Dormitory Construction Fund was established under the State Revenue Bond Act of 1947 and bonds were initially sold to support the construction of campus housing facilities. In 1957, the legislature approved a residence hall program, which was financed by both state and federal funds. Today, the CSU Housing Program is a self-supporting program deriving its revenues primarily from fees collected for the use of the residence facilities. Funds are used for current operating expenses, maintenance and repair, improvements to facilities, and interest and principal payments on outstanding bonds. After payment of all authorized charges, the balances in any of these funds remain available for future program expenses (CSU 2019a).

Local

CSUF is an entity of the CSU, which is a constitutionally created state agency, and is therefore not subject to local government planning and land use plans, policies, or regulations. CSUF may consider, for informational purposes, aspects of local plans and policies for the communities surrounding the campus when it is appropriate. The Campus Master Plan would be subject to State

and federal agency planning documents described herein but would not be bound by local or regional planning regulations or documents such as The Fullerton Plan or the City's Municipal Code.

Southern California Association of Governments (SCAG) Regional Housing Needs Assessment (RHNA)

The RHNA is mandated by State Housing Law as part of the periodic process of updating local housing elements. The RHNA quantifies the need for housing within each jurisdiction during specified planning periods. SCAG is in the process of developing the 6th cycle RHNA allocation plan which will cover the planning period October 2021 through October 2029. Communities use the RHNA in land use planning, prioritizing local resource allocation, and in deciding how to address identified existing and future housing needs resulting from population, employment and household growth. The RHNA does not necessarily encourage or promote growth, but rather allows communities to anticipate growth, so that collectively the region and subregion can grow in ways that enhance quality of life, improve access to jobs, promotes transportation mobility, and addresses social equity, fair share housing needs. The City of Fullerton, and neighboring cities are located in SCAG's jurisdiction and are subject to RHNA requirements.

The Fullerton Plan

It is assumed that the majority of population increase associated with the Campus Master Plan would reside in the City of Fullerton and to a lesser extent, in neighboring cities.

The Fullerton Plan aims to achieve the City's vision by aligning city efforts, connecting with local and regional partners and advocating for community engagement. The plan provides a framework for the community and covers different sectors such as economics, demographics, and physical characteristics. Specific policies in the Fullerton Plan that relate to population and housing and relevant to the Campus Master Plan include the following:

Housing

The Housing Element (2015) was developed to identify and analyze existing and projected housing needs and to illustrate official policies for the preservation, conservation, rehabilitation, and production of housing in the City of Fullerton. The Housing Element addresses opportunities for current and future Fullerton residents and provides the primary policy guidance for local decision making related to housing. As required by State law, the Housing Element identifies strategies and programs that focus on: (1) housing and neighborhood conservation; (2) providing adequate sites to achieve diversity of housing; (3) opportunities for affordable housing; (4) removing governmental constraints as necessary; and (5) promoting equal housing opportunities. Specific policies include the following:

- **P3.1 Provision of Adequate Sites for Housing Development**
- **P3.2 Affordability Monitoring**
- **P3.3 Expedited Processing for Extremely-Low, Very-Low, Low, and Moderate-Income Housing Developments**
- **P3.4 Facilitate Infill Development**
- **P3.5 Encourage Mixed-Use Development**
- **P3.6 Development of Housing for Large Families**
- **P3.7 Encourage Senior Housing**

- **P3.8 Use of Surplus City-Owned Land for Affordable Housing**
- **P 3.9 Support Community Housing Development Organization Projects**
- **P3.10 Establish Comprehensive Community Outreach Strategy for Housing**
- **P3.13 Affordable Housing Acquisition and Rehabilitation**
- **P3.15 Code Enforcement**
- **P3.19 Relocation Assistance**
- **P3.21 Continued Monitoring and Preservation of Housing Units At-Risk of Converting to Market Rate**
- **P3.22 Continue Support of Regional Fair Housing Efforts**

Growth Management

- **P7.1 Balanced Decision-making.** Support regional and sub-regional efforts to focus growth and development within areas that can be adequately served by existing and planned infrastructure systems.
- **P7.2 Housing Growth.** Support projects, programs, policies and regulations to accommodate housing growth consistent with the Regional Housing Needs Assessment in areas of the City with existing and planned infrastructure capabilities.

Community Development and Design

- **P1.9 Housing Choice.** Support projects, programs, policies and regulations to create housing types consistent with market demand for housing choice.

Education

- **P17.10 Housing to Support Educational Facilities.** Support policies, projects and programs that facilitate efforts by educational institutions and the private sector to develop an adequate supply of housing for faculty and staff of all schools, as well as adequate housing for college and university students.

4.8.3 Impact Analysis

a. Thresholds of Significance

Impacts related to population are generally social or economic in nature. Under CEQA, a social or economic change generally is not considered a significant effect on the environment unless the changes can be directly linked to a physical change. Impacts related to population and housing would normally be potentially significant if they exceed the following significance criteria in accordance with Appendix G of the CEQA Guidelines:

- Induce substantial unplanned population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure).
- Displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere.

b. Methodology

The examination of population, employment, and housing conditions is based in part on data found in the 2003 Master Plan, CSU Five-Year Plan, CSU Housing Program, CSUF enrollment information, and other university resources as cited.

c. Impact Analysis

Threshold 1:	Would the project induce substantial unplanned population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)?

Impact PH-1 THE CAMPUS MASTER PLAN WOULD GENERATE APPROXIMATELY 7,000 FTES AND 1,000 FACULTY AND STAFF. THIS POPULATION GROWTH IS ACCOMMODATED IN REGIONAL POPULATION FORECASTS. IMPACTS WOULD BE LESS THAN SIGNIFICANT. NO MITIGATION MEASURES ARE REQUIRED.

The Campus Master Plan is intended to serve a projected increase of 7,000 FTES, along with sufficient faculty and staff to provide instruction and support services to accommodate the demand of this increased headcount. The current enrollment for CSUF is approximately 25,000 FTES, which is the maximum enrollment capacity under the 2003 Master Plan. The Campus Master Plan anticipates that CSUF would reach 32,000 FTES by 2039, an increase of 7,000 students. An increase of approximately 1,000 faculty and staff would be needed to serve the proposed increase in academic, research, housing, event, and other facility space described in Section 2.0, *Project Description*. This is consistent with DOF enrollment growth projections for the CSU during this period and with recent annual enrollment increases for CSUF as determined during annual consultation with the CSU Office of the Chancellor (DOF 2019).

To accommodate the projected FTES growth rate, the Campus Master Plan proposes 3,000 additional student beds and 350 faculty and staff beds. Approximately 600 of the proposed 3,000 student beds were previously approved and analyzed in the 2003 Master Plan. These 600 beds are included in this discussion as these units have not yet been constructed and would serve future students accommodated under the Campus Master Plan.

Table 4.8-6 shows the approximate number of current and proposed on-campus and off-campus residences. The Campus Master Plan would result in an increase of approximately 3,350 student residents on-campus and an expected 4,650 students and faculty that would reside off-campus by the Campus Master Plan horizon year.

Table 4.8-6 CSUF Student and Faculty/Staff Housing

	Existing (2019)	Approved Student Housing Project	Campus Master Plan Addition (2039)	Total 2039 Population
On-Campus Residents				
Students[1]	2,000	600	2,400	5,600
Faculty/Staff	6	0	350	356
Total On-Campus Residents	2,000	600	2,750	5,956
Off-Campus Residents				
Students	23,000	0	4,000	27,000
Faculty/Staff	4,000[2]	0	650[1]	4,650
Total Off-Campus Residents	27,000	0	4,650	31,050
Total Population	29,000	600	7,400	37,000

[1]CSUF 2019c

[2]CSUF 2019d

Note: Numbers are approximate.

The Campus Master Plan would add approximately 7,000 total FTES by 2039: 3,000 on-campus student residents and 4,000 off-campus student residents.

Approximately 600 of the proposed 3,000 student housing units have already been approved and impacts were evaluated under the 2003 Master Plan. These units are included in this analysis as they have not yet been constructed and are a part of the projected 3,000 additional student beds.

The Campus Master Plan would add approximately 1,000 faculty/staff by 2039: 350 on-campus faculty/staff residents and 650 off-campus faculty/staff residents.

This analysis conservatively assumes that all new students and faculty/staff would be new residents to the City. In reality, it is reasonable to assume that a percentage of this population would already reside in the Fullerton and neighboring jurisdictions as many students come from feeder high schools located in the cities surrounding the CSUF campus. Freshmen Fall enrollment in 2019 was 5,958 students (CSUF 2019c), with 1,432 of these students coming from feeder high schools in Orange County (CSUF 2019d). Approximately 24 percent of the incoming freshmen student body attended Orange County high schools and are assumed to be existing residents of the City of Fullerton.

The Campus Master Plan would result in a gradual increase of approximately 7,000 students and 1,000 faculty/staff. As shown in Table 4.13-6, the Campus Master Plan would add 3,000 on-campus residential beds and 350 faculty/staff beds, for a total of 3,350 on-campus residential beds. Approximately 600 of the proposed 3,000 student beds have been approved and analyzed under the 2003 Master Plan. Assuming one student or faculty/staff member per bed, housing for 3,350 individuals would be constructed on campus by 2039, therefore 3,350 individuals would be housed on the CSUF campus following buildout of the Campus Master Plan. Given that the Campus Master Plan would result in 8,000 students and faculty added to the campus population (7,000 students and 1,000 faculty/staff), 4,650 students and faculty are expected to reside off-campus.

The projected total population for 2040 for the City of Fullerton and surrounding cities is 904,400 (see Table 4.8-2). SCAG forecasts take into consideration in- and out-migration trends, including fluctuations in university populations; therefore, the population increase associated with the

Campus Master Plan would be part of SCAG's population forecasts. Based on SCAG's projections, the addition of 8,000 residents under the Campus Master Plan would account for less than one percent of the total area population by 2040 and would not represent substantial unplanned growth.

The Campus Master Plan would likely induce some indirect population growth due to regional commercial and business activity spurred by an increase in the student and faculty/staff population. A 2017 study by CSUF found that the university created 15,000 new jobs and generated a total spending impact of nearly $2.6 billion on the regional economy (CSUF 2019c). This indirect population growth is and would continue to be included in the SCAG population forecast and would not be considered unplanned.

For the reasons stated above, implementation of the Campus Master Plan would not induce substantial unplanned direct and indirect population growth. This impact would be less than significant.

Mitigation Measures

No mitigation measures are required.

Significance After Mitigation

Impacts would be less than significant without mitigation.

Threshold 2:	Would the project displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere?

Impact PH-2 THE CAMPUS MASTER PLAN WOULD NOT DISPLACE EXISTING PEOPLE OR HOUSING AND WOULD INCLUDE 3,350 UNITS OF ON-CAMPUS HOUSING FOR STUDENTS AND FACULTY/STAFF. AN ADDITIONAL 4,650 STUDENTS AND FACULTY/STAFF ARE EXPECTED TO RESIDE IN THE CITY OF FULLERTON AND NEIGHBORING JURISDICTIONS. LOCAL PLANS AND POLICIES GOVERNING HOUSING PROVISION WOULD SUPPORT APPROPRIATE HOUSING DEVELOPMENT AND REDUCE THE POTENTIAL FOR DISPLACEMENT. IMPACTS WOULD BE LESS THAN SIGNIFICANT. NO MITIGATION MEASURES ARE REQUIRED.

The Campus Master Plan would include the construction of 2,400 student beds and 350 faculty beds to accommodate projected future growth in student enrollment and employees. An additional 600 student beds have been approved and analyzed under the 2003 Master Plan and are included in this analysis as they will serve future students accommodated under the Campus Master Plan. The Campus Master Plan directs the construction of new and on-campus housing and the renovation of existing on-campus housing. Renovations would not displace existing students. The Campus Master Plan would not require the demolition of housing.

As discussed in Impact PH-1, 4,650 students and faculty would be accommodated by off-campus housing. Based on current trends discussed in Existing Setting, it is likely that most of these students and faculty/staff would reside in the City of Fullerton or neighboring jurisdictions. Using a highly conservative assumption that all new students, staff, and faculty not living on campus would occupy an individual housing unit, there would be a need to accommodate 4,650 households. Using the data provided in Table 4.13-3, this number represents less than one percent of the new households forecasted in the region by 2040.

Under State law, the City of Fullerton and neighboring jurisdictions are required to address planning for housing needs in the Housing Elements of their general plans, in compliance with the SCAG

RHNA. Local policies, including those included in The Fullerton Plan and Municipal Code, would guide housing development to accommodate the needs of future population growth, particularly housing for low-income residents, and decrease potential impacts to existing residents from housing and economic displacement. Policies encouraging infill and mixed-use development would focus growth in existing neighborhoods, decreasing the likelihood of necessitating housing construction in undeveloped areas or outside the City of Fullerton and neighboring jurisdictions. Additionally, policy P17.10 of The Fullerton Plan, *Housing to Support Educational Facilities*, addresses the City's desire and cooperation to accommodate the student and faculty/staff population growth associated with educational institutions. Therefore, the Campus Master Plan would not displace substantial numbers of people or housing, necessitating the construction of replacement housing elsewhere. Impacts would be less than significant.

Mitigation Measures

No mitigation measures are required.

Significance After Mitigation

Impacts would be less than significant without mitigation.

4.9 Public Services

This section assesses potential impacts of Campus Master Plan implementation on the demand for and provision of public services including fire protection and emergency response services, law enforcement, public schools, libraries, and medical services. Impacts to parks and recreational facilities are discussed in Section 4.10, *Recreation*. Impacts to public utility services are discussed in Section 4.12, Utilities.

4.9.1 Setting

a. Law Enforcement

University Police Department

The University Police Department (UPD) provides police protection services on campus, over which it has primary jurisdiction. The UPD station is located at 800 North State College Boulevard, on the west side of campus. As of this writing, the UPD consists of 12 different units staffed by 25 sworn officers and investigators (led by one chief of police and two captains), 10 dispatchers, North County Special Weapons and Tactics (SWAT) officers, 41 student Community Service Officers (CSOs), and several civilian employees and volunteers (UPD 2019). All UPD police officers are sworn peace officers under California Penal Code Section 830.2(c) and possess the same authority of arrest as any other police officer in the state of California under Section 89560 of the California Education Code. UPD Officers patrol adjacent public streets and property within a one-mile radius of the campus. UPD jurisdiction also includes CSUF's Off-Campus Centers in the City of Placentia and the City of Irvine (CSUF 2019a).

The UPD conducts routine patrols on foot, vehicle, motorcycle, and bicycle of campus, central buildings, parking structures, parking lots, residence halls, and overall grounds to monitor security and to address safety concerns 24 hours a day. In addition to routine patrols, the UPD provides the following services:

- Campus maintenance and lighting surveys and reporting to Facility Operations for repair
- Blue emergency telephones
- Safety escort services
- Crime prevention units located within Housing Community Resources Center to connect with on-campus housing
- 9-1-1 communications

UPD maintains operational Memoranda of Understanding (MOUs) with the Fullerton Police Department (FPD) regarding interagency responses (Willey 2019).

The current staffing goal of the UPD is one officer per 1,000 students. Response times average 1.5 minutes per call for service. The UPD currently employs 25 sworn officers, half of which are on patrol, with the remainder on different administrative/specialty assignments (Willey 2019).

Crime statistics for the years 2016 through 2018 are shown in Table 4.9-1 below.

Table 4.9-1 Crime Statistics for CSUF (2016-2018)

Criminal Offense	2016	2017	2018
Murder/Non-negligent manslaughter	0	0	0
Negligent Manslaughter	0	0	0
Rape	5	5	9
Fondling	4	9	9
Incest	0	0	0
Statutory Rape	0	0	0
Robbery	1	3	2
Aggravated Assault	4	1	2
Burglary	31	10	12
Motor Vehicle Theft	10	8	8
Arson	1	1	4
Dating Violence	1	2	18
Domestic Violence	2	0	1
Stalking	13	21	16
Liquor Law Arrests	16	2	1
Liquor Law Referrals	234	148	230
Drug Law Arrests	55	43	25
Drug Law Referrals	196	52	88
Weapon Law Arrests	15	12	4
Weapon Lap Referrals	4	1	0

Notes: Reported criminal offenses from on campus, non-campus, and public property

Source: CSUF 2019a

City of Fullerton Police Department

The FPD serves the City of Fullerton and consists of approximately 220 employees, 150 sworn and 70 civilian positions. In 2015, the latest available data, dispatchers for FPD processed a total of 206,968 phone calls consisting of 58,325 incoming 911 calls, 93,387 incoming seven digit calls, and 55,256 outbound calls. A total of 83,571 Mapping Computer Aided Dispatch incidents were recorded and dispatchers managed a total of 1,419,599 radio transmissions.

The FPD is divided into several divisions and units. The Operations Division consists of the Patrol Division, the Traffic Bureau, as well as the Narcotics Unit, the Gang Unit, the Directed Enforcement Team, the Echo Unit, and the Homeless Liaison Team. The Support Services Division consists of primary Investigation units, and Professional Standards Bureau for both Training and Internal Affairs. Support Services also includes Records Bureau, Jail, Communications Bureau, Crime Scene Investigation Unit, as well as the Community Services Bureau. The Investigation Unit consists of the Crimes Property Unit, the Family Crimes Unit and the Property Crimes Unit, Crime Scene Investigation Unit, as well as the Training Bureau and Communications Bureau.

Patrol deployment is divided into three zones which stretch from the southern city limits (SR 91) to the north city limits. Zone I runs from the western city limits to Euclid Ave. Zone II runs from Euclid Ave to Raymond Ave. Zone III runs from Raymond Ave. to the eastern city limits (FPD 2015).

CSUF is located in an urbanized area in the City of Fullerton. According to the Community Crime Map, the area in the city with the highest concentration of crime is in downtown Fullerton, approximately two miles southwest of the campus (LexisNexis 2019). In the area of the City surrounding CSUF, property crimes, specifically auto burglaries and thefts from vehicles, were the most common type of crime in the area (FPD 2015).

The Orange County Sheriff-Coroner Department

The Orange County Sheriff-Coroner Department (OCSCD) is a large, multi-faceted law enforcement agency served by approximately 3,800 sworn and professional staff members and over 800 reserve personnel. The department consists of five organizational Commands comprising 21 separate Divisions. The Executive Command includes Sheriff's Executive Management and Public Affairs; the Administrative Services Command includes Communications and Technology, Financial and Administrative Services, Research and Development and Support Services; the Custody Operations and Court Services Command include the three jail facilities in Orange County and Inmate Services; the Field Operations and Investigative Services Command includes Airport Operations, Homeland Security, North and South Patrol Operations, Investigations, Coroner, Emergency Communications, Crime Lab, and Reserve and Volunteer Bureau; and the Professional Services Command includes Court Operations, Professional Standards, S.A.F.E., Training, and Community Programs.

Collectively, these Commands and Divisions provide services including land and sea-based patrol and investigative services to unincorporated county areas and to contract and task force partners at the city and county levels. Additional services and responsibilities include but are not limited to state and federal task force participation, operation and management of the Orange County jail system including contract services for Immigration and Customs Enforcement (ICE) detainees, emergency communications, forensic and coroner services, human resources, and personnel services, risk management and financial management (OCSCD 2019).

b. Fire Protection

CSUF receives fire protection and emergency services from the City of Fullerton Fire Department (FFD). The FFD is composed of 95.5 trained professional employees at six fire stations strategically located throughout the City (Fullerton 2019a). FFD operates under three divisions: Administration Division, Operations/Training Division, and Fire Prevention Division. The FFD has six fire stations throughout the City.

Fire Station 1 is located at 312 E Commonwealth Avenue and serves as the main headquarters. Fire station 2 is located at 1732 W Valencia Drive; Fire Station 3 is located at 700 S Acacia Avenue; Fire Station 4 is located at 3251 North Harbor Boulevard; Fire Station 5 is located at 2555 Yorba Linda Boulevard; and Fire Station 6 is located at 2691 Rosecrans Avenue. CSUF is primarily served by Fire Station 5, located on the north side of the campus across the Fullerton Arboretum and Yorba Linda Boulevard. In the event of a large-scale emergency, other fire stations assist Station 5.

FFD sponsors several programs under its operation including the Community Emergency Response Team (CERT). CERT members learn basic disaster response skills such as fire safety, light search and rescue, team organization, and disaster medical operations. Additionally, CERT members can help assist others in their neighborhoods and workplace when professional responders are not immediately available. In addition to providing emergency response services and firefighting services, FFD is responsible for enforcing fire codes, providing fire inspections, assisting in planning and development standards for High Fire Hazard Areas (and enforcing such standards), and community education and outreach (Fullerton 2019a).

FFD is a member of the Metro Cities Fire Authority (MCFA), which handles dispatch calls for several cities in Orange County. From January to December of 2018, FFD responded to 27,450 calls, of which 25,693 (93 percent) were in the City of Fullerton (MCFA 2018).

c. Schools

Fullerton School District and Fullerton Joint Union High School District

CSUF is located within the service area of the Fullerton School District (FSD), which consists of 10 preschools, 15 elementary schools, two K-8 schools, and three junior high schools. Approximately 13,700 students in grades K-8 were enrolled in the FSD for the 2018-19 school year (FSD 2019).

CSUF is also located in the service boundary of Fullerton Joint Union High School District (FJUHSD), which is responsible for all high school education in the City of Fullerton, providing educational services for students in ninth to twelfth grades. The district serves a 50-square-mile area that includes the elementary school districts of Buena Park, Fullerton, La Habra, and Lowell Joint. Six four-year comprehensive high schools are operated by FJUHSD: Buena Park, Fullerton, La Habra, Sonora, Sunny Hills, and Troy High Schools. La Vista High School, a continuation high school, and La Sierra High School, an alternative high school, also serve FJUHSD students.

The nearest schools to the CSUF campus are Acacia Elementary School, Ladera Vista Junior High School of the Arts, and Troy High School, La Vista High School, and La Sierra High School. Acacia Elementary School is located approximately 0.50 mile west of the CSUF campus at 1200 N Acacia Avenue. Ladera Vista Junior High School of The Arts is located approximately one mile southwest of campus at 1700 E. Wilshire Avenue. Troy High School, La Vista High School, and La Sierra High School are each located within 1,000 feet of the CSUF campus, to the west. Table 4.9-2 shows the 2018-19 enrollment and the capacity of elementary and junior high schools in Fullerton. District enrollment has been in a slight downward trend since 2014 (Ed-Data 2020).

Table 4.9-2 Fullerton School District Enrollment and Capacity

School	2018-19 Enrollment[1]	School Capacity[2]	Difference
K-6 Schools			
Acacia Elementary	709	928	219
Commonwealth Elementary	355	896	541
Fern Drive Elementary	522	1,024	502
Golden Hill Elementary	687	1,088	401
Hermosa Drive Elementary	449	768	319
Laguna Road Elementary	655	832	177
Maple Elementary	344	982	638
Orangethorpe Elementary	620	1,376	756
Pacific Drive Elementary	563	1,248	685
Raymond Elementary	549	800	251
Richman Elementary	688	1,568	880
Rolling Hills Elementary	663	928	265
Sunset Lane Elementary	855	1,152	297
Valencia Park Elementary	591	1,344	753
Woodcrest Elementary	376	1,024	648

School	2018-19 Enrollment[1]	School Capacity[2]	Difference
K-8 Schools			
Beechwood Elementary	870	1,152	282
Robert C. Fisler Elementary	919	1,248	329
Junior High Schools			
Ladera Vista Junior High	992	1,472	480
Nicolas Junior High	672	1,472	800
D. Russell Parks Junior High	980	1,280	300
Total	**13,059**	**22,528**	**9,523**

[1] Ed-Data 2020, based on Census Day enrollment

[2]FSD maximum capacity is 32 students per class (Greenwood 2020)

Topaz Elementary School, located at 3232 Topaz Lane within the City of Fullerton, is serviced by the Placentia-Yorba Linda Unified School District. During 2018-19, Topaz Elementary School had 511 students enrolled. In addition to collection of statutory required developer fees, growth in student population has been accommodated on a project-by-project basis. This has sometimes involved mitigation agreements as well as establishment of Community Facility Districts (Fullerton 2012).

Table 4.9-3 shows the 2018-19 enrollment and the capacity of high schools in Fullerton. La Sierra High School is not included in the enrollment and capacity analysis for the district.

Table 4.9-3 Fullerton Joint Union High School District Enrollment and Capacity

School	2018-19 Enrollment[1]	School Capacity[2]	Available Capacity
Buena Park High School, 8833 Academy Drive	1,937	2,349	412
Fullerton Union High School, 201 E. Chapman Avenue	1,979	2,322	343
La Habra High School, 801 W. Highlander Avenue	2,179	2,349	170
La Sierra High School. 909 North State College Boulevard	N/A	N/A	N/A
La Vista High School, 909 North State College Boulevard	395	495	100
Sonora High School, 401 S. Palm Street	1,813	2,133	320
Sunny Hills High School, 1801 Warburton Way	2,304	2,214	-90
Troy High School, 2200 E. Dorothy Lane	2,614	2,445	100
Total High School	**13,221**	**14,307**	**1,086**
Total Non-Public School Special Education, and Home and Hospital Special Education	474	N/A	N/A
District Total	**13,695**		

1 Ed-data 2020

2 The Fullerton Plan EIR (Fullerton 2012)

As shown in Table 4.9-2 and Table 4.9-3, the school districts in the City of Fullerton have available capacity for additional students. FJUHSD is currently operating at 92 percent capacity. FJUHSD offers an open enrollment policy where a Fullerton resident can elect to transfer to any school within the District. Acceptance in the school would depend on the capacity of that particular school, as well as other factors established by State law and District Board Policy (Fullerton 2008).

d. Public Libraries

CSUF Libraries

Pollak Library is the main campus library and serves CSUF students, faculty, and staff. Pollak Library consists of a North and South wing, each housing different services and collections. The North Wing consists of archives, study rooms, the Writing Center, the Advanced Technology Lab, the Innovation/Makerspace Center, and the Children's Literature Center. The South Wing consists of, but is not limited to, the College of Communications, the Diversity Initiatives and Resource Center, the LBTQ Queer Resource Center, University Honors Center, Academic Technology Center, and Special Collections. The Pollak Library on the CSUF campus is currently being remodeled in accordance with the system-wide initiative called Library of the Future (LOFT) and is near completion. It recently completed three major capital improvement projects, including renovations to the fourth, fifth, and sixth floors and fire line safety improvements (CSUF 2019b).

Fullerton Library and Orange County Public Libraries

Fullerton Public Library is operated by the City of Fullerton and is located at 353 W. Commonwealth Avenue approximately three miles west of CSUF. Fullerton Public Library is approximately 61,000 square feet (sf), having undergone a significant renovation in 2011 (League of California Cities 2012). The population of Fullerton is currently 142,824; therefore, its library service ratio is 2.34 persons per square foot of library space.

Orange County Public Libraries (OCPL) is a network of community libraries, with 33 branches and an outlet in the Orangewood Children's Home. Some of the branches are operated within the jurisdiction of the county's 33 cities and some within the county's unincorporated area (OCPL 2019). Other nearby libraries are located at Fullerton College, Hope International University, and Marshall B. Ketchum University, and in neighboring cities.

e. Medical Services

CSUF Student Health and Counseling Center

The Student Health and Counseling Center is the primary care facility for students, located on the CSUF campus. It currently employs two administrative staff members, seven health practitioners, and three sports therapists. The Student Health and Counseling Center receives approximately 40,000 annual visits (CSUF 2014).

St. Jude Medical Center

St. Jude Medical Center (SJMC) is the closest regional hospital, located at 101 E Valencia Mesa Drive in Fullerton, approximately 2.17 miles from CSUF. SJMC is a faith-based, non-profit, 320-bed, acute care hospital with approximately 700 physicians. In 2014, the hospital added a new four-story, 200,000-square-foot hospital wing connected to an existing tower on the first and fourth floors. The tower features 120 patient beds, 14 operating rooms with "smart" surgical suites, a spacious

cafeteria, materials management, pharmacy and areas for support staff. The project also entailed construction of a 20,000-square-foot central utility plant, a 215-vehicle parking structure expansion and rerouting of major site utilities on an active medical campus (Providence 2019).

4.9.2 Regulatory Setting

State

2018 California Strategic Fire Plan (Fire Plan)

The 2018 California Strategic Fire Plan (Fire Plan) is a cooperative effort between the State Board of Forestry and Fire Protection and the California Department of Forestry and Fire Protection (CALFIRE 2018). The 2018 Fire Plan reflects a focus on fire prevention, suppression activities, and natural resource management to maintain the State's forests as a resilient carbon sink to meet California's climate change goals and to serve as important habitat for adaptation and mitigation. Major components center on the following goals:

- Improve the availability and use of consistent, shared information on hazard and risk assessment
- Promote the role of local planning processes, including general plans, new development, and existing developments, and recognize individual landowner/homeowner responsibilities
- Foster a shared vision among communities and the multiple fire protection jurisdictions, including county-based plans and community-based plans such as Community Wildfire Protection Plans
- Increase awareness and actions to improve fire resistance of man-made assets at risk and fire resilience of wildland environments through natural resource management
- Integrate implementation of fire and vegetative fuels management practices consistent with the priorities of landowners or managers
- Determine and seek the needed level of resources for fire prevention, natural resource management, fire suppression, and related services
- Implement needed assessments and actions for post-fire protection and recovery

State Multi-Hazard Mitigation Plan

The State Multi-Hazard Mitigation Plan (SHMP) intends to significantly reduce deaths, injuries, and other losses attributed to natural and human-caused hazards in California. The SHMP provides guidance for hazard mitigation activities emphasizing partnerships among local, state, and federal agencies as well as the private sector. The SHMP is federally required under the Disaster Mitigation Act of 2000 in order for the state to receive federal funding in case of disaster. The California Office of Emergency Services prepares the California SHMP, which identifies hazard risks, and includes a vulnerability analysis and a hazard mitigation strategy.

California Fire Code (Title 24, Part 9, California Code of Regulations)

The California Fire Code incorporates the Uniform Fire Code (UFC) with necessary California amendments. This Code prescribes regulations consistent with nationally recognized good practices for the safeguarding, to a reasonable degree, of life and property from the hazards of fire explosion. It also addresses dangerous conditions arising from the storage, handling, and use of hazardous

materials and devices; conditions hazardous to life or property in the use or occupancy of buildings or premises; and provisions to assist emergency response personnel.

California Building Code

The 2016 CBC became effective January 1, 2017, including Part 9 of Title 24, the California Fire Code. Section 701A.3.2 of the CBC requires that new buildings located in any Fire Hazard Severity Zone within State Responsibility Areas, any Local Agency Very-High Fire Hazard Severity Zone (VHFHSZ), or any Wildland-Urban Interface Fire Area designated by the enforcing agency for which an application for a building permit is submitted, comply with all sections of the Chapter.

Senate Bill 50

The Leroy F. Greene School Facilities Act of 1998, or Senate Bill 50 (SB 50), restricts the ability of a local agency to deny project approvals on the basis that public school facilities (classrooms, auditoriums, etc.) are inadequate. School impact fees are collected at the time building permits are issued. These fees are used by the local schools to accommodate the new students added by the project, thereby reducing potential impacts on schools to a less-than-significant impact. Payment of school fees is required by SB 50 for all new residential development projects and is considered full and complete mitigation of school impacts. The Fullerton School District and the Fullerton Joint Union High School District, and other school districts in Orange County, collect fees from new residential and commercial/industrial development based on square footage.

CSUF Emergency Operations Plan

The CSUF Emergency Operations Plan (EOP) (last updated September 2018) defines the scope of preparedness and incident management activities and directs the University's response to emergency situations and disasters. The EOP describes organizational structures, roles and responsibilities, policies, and protocols for providing emergency support, including coordination with the UPD and FFD. The Emergency Management Coordinator in the UPD oversees the program and is responsible for keeping the EOP up to date.

CSU Policies on Mutual Aid

According to CSU Executive Order 1046, effective date January 1, 2010, "the Assistant Vice Chancellor for Risk Management and Public Safety shall ensure that each CSU Police Department has a policy that delineates the specific geographical boundaries of its jurisdiction as required by California Education Code section 89560."

The Assistant Vice Chancellor for Risk Management and Public Safety shall ensure that each CSU Police Department has agreements with neighboring agencies that specify the procedure for requesting mutual aid, and each respective agency's responsibilities where there is concurrent jurisdiction, as required by the Kristin Smart Campus Safety Act of 1998, California Education Code section 67381." Each CSU Police Department must have agreements with neighboring agencies that specify the procedure for requesting mutual aid.

Local

CSUF is an entity of the CSU, which is a constitutionally created state agency, and is therefore not subject to local government planning and land use plans, policies, or regulations. CSUF would be subject to state regulations and planning documents described herein, but would not be bound by

local or regional planning regulations or documents such as The Fullerton Plan or municipal code. CSUF may consider, for informational purposes, aspects of local plans and policies for the communities surrounding the campus when it is appropriate.

The Fullerton Plan (2012)

The Fullerton Plan, aims to achieve the City's vision by aligning city efforts, connecting with local and regional partners and advocating for community engagement. The plan provides a framework for the community and covers different sectors such as economics, demographics, and physical characteristics. Specific policies in The Fullerton Plan that relate to public services and relevant to the Campus Master Plan include the following:

Public Safety

- **P12.2 Collaboration with Outside Agencies.** Support regional and subregional efforts to prevent violence, child abuse, sexual assault, domestic violence, illegal use of firearms, violence associated with substance abuse, crimes against property and other similar issues.
- **P12.3 Community Confidence Building.** Support policies and programs that bolster productive communication and problem-solving between public safety personnel and the Fullerton community.
- **P12.4 Balance Safety Needs.** Support policies, projects, programs, and regulations that balance the need to reduce vehicle accidents, injuries, and deaths through traffic calming and street design with the need to facilitate emergency response times.
- **P12.5 Community Preservation.** Support policies, programs and regulations pertaining to proactive code enforcement methods which reinforce the proper maintenance of properties, buildings and landscapes, and adherence to applicable regulations, while discouraging conditions that foster vandalism and more serious crime.
- **P12.6 Youth Community Safety Partnership.** Support programs that involve young people in discussions about crime and prevention, increase youths' attachment to the community, engage youth in productive activities, and reinforce success in education.
- **P12.7 Fire Code Amendments.** Support policies, programs and regulations that give the Fire Marshall flexibility to approve streets and fire lanes with reduced clearance requirements when other fire safety factors are incorporated into the project (such as street connectivity, traffic safety and the presence of sprinkler systems).
- **P12.9 Neighborhood Safety Strategy.** Support policies, projects, programs and regulations that strengthen partnerships and community-based efforts, such as Neighborhood Watch, to reduce crime through prevention, education and enforcement, and encourage communities to build block-by-block networks to prevent crime, develop social ties and solve common problems.
- **P12.10 Community Involvement in Crime Prevention.** Support policies and programs that involve the community in supporting informal monitoring, participating in legitimate activities and building a sense of ownership and control over neighborhoods.
- **P12.11 Public Safety in Focus Areas.** Support projects, programs, policies and regulations to proactively address public safety concerns as part of community-based planning of Focus Areas.
- **P12.12 Crime Prevention.** Support policies, programs and regulations that implement crime prevention strategies that have demonstrated success, including Crime Prevention Through

Environmental Design (CPTED), Crime-Free Multi-Housing, Business Watch; Neighborhood Watch, iWatch and other similar strategies.

- **P12.13 Safety through Design.** Support policies, projects, programs and regulations that make crime prevention and the maintenance of public safety service levels considerations in design and management of existing and new private and public spaces.
- **P13.1 Inter-City Coordination.** Support regional and subregional efforts to: coordinate as appropriate Continuity of Operations Plan, plans and procedures for Emergency Operations Centers, and emergency response training systems; maintain inter-agency and public communications systems that will provide mutual aid and be reliable during and following an emergency; and, formulate definitive plans and procedures for evacuation of hazard-prone areas and high risk uses.
- **P13.2 Adequate Resources for Emergencies.** Support policies and programs that ensure adequate resources are available in all areas of the City to respond to health, fire and police emergencies.
- **P13.3 Disaster Hazard Reduction.** Support policies, projects, programs and regulations that reduce structural and nonstructural hazards to life safety and minimize property damage and resulting social, cultural and economic dislocations resulting from future disasters.
- **P13.4 Disaster Risk Reduction.** Support programs that promote greater public awareness of disaster risks, personal and business risk reduction, and personal and neighborhood emergency response.
- **P13.5 Community Emergency Preparedness.** Support policies, programs and regulations that ensure the City, its residents, businesses and services are prepared for effective response and recovery in the event of emergencies or disasters, including the provision of information about the current nature and extent of local safety hazards and emergency plans, including evacuation plans and procedures to accommodate special needs populations. Information should be provided in multiple languages to maximize understanding by community members.
- **P13.6 Inter-Department Coordination.** Support policies and programs that improve the coordination of disaster-related programs within City departments.
- **P13.7 New Technologies for Fire and Police Services.** Support policies, programs and regulations which are based on research and evaluation and that implement new technologies and methods to improve the efficiency and effectiveness of fire and police services.
- **P13.9 Nuisance Enforcement.** Support policies, programs and regulations that maintain or strengthen code enforcement as an important tool to uphold community health, safety and welfare consistent with the provisions of the Fullerton Municipal Code.
- **P13.11 Crime Reduction Strategies.** Support policies, programs and regulations to create problem-solving strategies and plans for areas with higher crime rates in the City and to reduce crime by implementing these strategies and plans through a range of measures including increased policing activities, neighborhood partnerships and other innovative programs.

Libraries

- **P16.6 Fullerton Library System.** Support policies and programs which continuously seek to improve and strengthen the Fullerton Library System as an educational and cultural resource accessible to the entire Fullerton community.
- **P17.17 Fullerton Library.** Support policies, projects and programs that recognize the Fullerton Library as a central element in Fullerton's citywide educational system.

Education

- **P17.10 Housing to Support Educational Facilities.** Support policies, projects and programs that facilitate efforts by educational institutions and the private sector to develop an adequate supply of housing for faculty and staff of all schools, as well as adequate housing for college and university students.
- **P17.11 Disadvantaged Communities.** Support policies, projects and programs that address the educational and library needs of disadvantaged communities in Fullerton.
- **P17.13 Shared Facilities and Infrastructure.** Support policies and programs that encourage regular communication and coordination between the City and education providers about facility and infrastructure needs of campuses and nearby neighborhoods and seek opportunities to develop these through collaborative planning and joint-use agreements.
- **P17.15 Mitigate Growth Impacts on School Facilities.** Continue to mitigate the impacts of growth by assessing school impact fees and other appropriate mitigation measures.
- **P17.16 Project Impact Mitigation.** Support programs that foster coordination between the City and local school districts, colleges and universities to assess and mitigate project impacts pertaining to on- and off-campus development.

4.9.3 Impact Analysis

a. Thresholds of Significance

To determine whether a project would result in a significant impact to air quality, Appendix G of the CEQA Guidelines requires consideration of whether a project would:

1. Result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, or the need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for any of the public services:
   a) Fire protection
   b) Police protection
   c) Schools
   d) Other public facilities (Libraries and Medical Facilities)

b. Methodology

Evaluation of public service impacts was based on a review of documents identifying current levels of service, service standards, consultation with public service providers, such as the Fullerton and University Police Departments, and the Fullerton School District. Impacts on public services that

would result from the Campus Master Plan were identified and compared against future demand associated with project implementation.

c. Impact Analysis

Threshold 1a:	Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered fire protection facilities, or the need for new or physically altered fire protection facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives?

Impact PS-1 IMPLEMENTATION OF THE CAMPUS MASTER PLAN WOULD INCREMENTALLY INCREASE THE SERVICE POPULATION OF THE FFD AND THE NUMBER OF BUILDINGS ON THE CSUF CAMPUS. NEW AND EXPANDED FACILITIES WOULD BE CONSTRUCTED AND OPERATED ENTIRELY ON CSUF PROPERTY IN COMPLIANCE WITH APPLICABLE CSU AND OTHER STATE REGULATIONS GOVERNING FIRE AND LIFE SAFETY. IMPACTS WOULD BE LESS THAN SIGNIFICANT. NO MITIGATION MEASURES ARE REQUIRED.

As described in Section 2.0, *Project Description*, the Campus Master Plan would develop more than 5 million gsf of new facility space on campus, in an area currently served by the FFD and which is already served by existing fire and emergency infrastructure such as hydrants, water lines, sprinklers, and call boxes. The FFD reviews development to ensure that necessary fire prevention and emergency response features are incorporated into new projects. All campus and building improvements carried out under the Campus Master Plan would be required to comply with the 2016 Fire and Building Code requirements for construction, access, water mains, fire flows, and hydrants, and would be subject to review and approval by the FFD prior to building permit and certificate of occupancy issuance.

Campus Master Plan implementation would result in the continuation of existing academic programs, extra-curricular activities, and similar housing and instructional facilities and would not fundamentally change the nature of campus operations. Therefore, Campus Master Plan implementation is not anticipated to result in any change in incident calls per capita. Development included in the Campus Master Plan would be covered under the CSUF EOP, which outlines the coordination between CSUF and FFD in the event of an emergency and supporting infrastructure and services. Additionally, local policies, including Fullerton Plan Policies P13.1 and P13.3-7, would continue and improve disaster preparedness efforts and coordination between agencies, supporting the goals of the FFD.

As discussed in Section 4.8, *Population and Housing*, the Campus Master Plan would generate an incremental increase of approximately 7,000 FTES and 1,000 faculty/staff by the 2039 Campus Master Plan horizon year.

Population growth in the FFD service area both on and off-campus would incrementally increase under the Campus Master Plan over a 20-year period. In 2018, FFD responded to 25,693 calls in the City of Fullerton, to the equivalent of 0.18 calls per resident (MCFA 2018). Table 4.9-4 shows the anticipated increase in FFD response calls in the City of Fullerton that would be directly attributed to the Campus Master Plan using the same rate of calls per resident.

Table 4.9-4 Anticipated Change in FFD Response Call Volume

	City of Fullerton Population	Annual Response Call Volume	Calls per Resident	FFD Employees per Call Volume
2018 population	143,313	25,693	0.18	-
2019 population	142,824	25,712[1]	0.18	99.5
Campus Master Plan addition	8,000	-	-	-
2039 population (with Campus Master Plan contribution only)	150,824	27,148[1]	0.18	105
Difference		*1,455*		5.5

[1]Estimated based on 2018 calls per resident information.

Source: DOF 2019, MCFA 2018

As shown in Table 4.9-4, the Campus Master Plan would add up to approximately 8,000 residents to FFD's service area. Using the highly conservative assumption that all new students and faculty living off campus would reside in the City of Fullerton, the total number of FFD response calls Citywide would be anticipated to be 27,148, with the addition of new residents from the Campus Master Plan, an increase of 1,455 calls per year. FFD currently staffs 95.5 trained professional employees. If FFD maintains the same ratio of employees per call volume, FFD would need to increase staff by 5.5 employees.

Planning for new or physically altered FFD stations is based on an assessment of the cumulative need for new facilities and irrespective of the Campus Master Plan. The Campus Master Plan itself would not result in the need for new or expanded facilities. It should also be noted that the Campus Master Plan's incremental contribution to demand for new fire protection services would be offset by payment of proportionate property taxes and sales taxes to the City of Fullerton by new residents. The City of Fullerton's ongoing budget process assesses the needs for FFD service and infrastructure to meet goals and standards. In Fiscal Year 2018-19, fire services constituted 21 percent of the City of Fullerton's General Fund (Fullerton 2018). Likewise, property taxes and sales taxes from new residents in neighboring jurisdictions would support the appropriate fire services agency. Therefore, the Campus Master Plan would not result in the need for new or physically altered police protection facilities and impacts would be less than significant.

Mitigation Measures

No mitigation measures are required.

Significance After Mitigation

Impacts associated with the provision or need for new or physically altered fire protection facilities would be less than significant.

Threshold 1b:	Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered police protection facilities, or the need for new or physically altered police protection facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives?

Impact PS-2 IMPLEMENTATION OF THE CAMPUS MASTER PLAN WOULD INCREMENTALLY INCREASE THE SERVICE POPULATION OF THE FPD. THE UPD, WHICH HAS PRIMARY JURISDICTION ON CAMPUS, WOULD REDUCE DEMAND FOR FPD SERVICES. FACILITY SPACE FOR THE UPD IS INCLUDED IN THE CAMPUS MASTER PLAN, THE EFFECTS OF WHICH ARE EVALUATED IN THIS EIR. THE CAMPUS MASTER PLAN WOULD NOT RESULT IN THE NEED FOR NEW OR PHYSICALLY ALTERED POLICE FACILITIES. IMPACTS WOULD BE LESS THAN SIGNIFICANT. NO MITIGATION MEASURES ARE REQUIRED.

As discussed in Section 4.8, *Population and Housing*, the Campus Master Plan would generate an incremental increase of approximately 7,000 FTES and 1,000 faculty/staff by the Campus Master Plan horizon year. Approximately 3,350 of these students and faculty/staff would be accommodated with on-campus housing, and 4,650 would be accommodated by non-campus housing in the City of Fullerton and neighboring cities.

On-Campus Impacts

The Campus Master Plan would redevelop buildings and develop new facilities within the existing campus footprint, including on-campus housing for students and faculty/staff. The primary police protection responsibility on the CSUF campus would continue to be provided by the UPD, which has jurisdiction over the campus facilities proposed in the Campus Master Plan. The facilities proposed under the Campus Master Plan would be incorporated into the CSUF EOP. The UPD would continue to have mutual-aid agreements and cooperate with local and state law enforcement agencies, including the FPD, as required by California Education Code section 67381.

Presumably, the need for police services would incrementally increase approximately 30 percent, in association with the student and faculty population increase under the Campus Master Plan until the 2039 horizon year. As previously discussed, the UPD is currently under its staffing goal of one sworn officer per 1,000 students. In order to maintain adequate staffing goals, the UPD would need to employ 40 sworn officers, or 15 more than current staffing levels (Wiley 2019). The Campus Master Plan includes 40,000 gsf of non-academic facility space, a portion of would be used to accommodate sufficient levels of UPD staffing and equipment space. The new facility space is designed to accommodate the increased demand associated with the anticipated increase in the student and faculty/staff population. Despite planned enrollment growth under the Campus Master Plan, the UPD has primary jurisdiction on the campus and would serve to reduce demand for city police protection services. Therefore, impacts to on-campus police facilities would be less than significant.

Off-Campus Impacts

The Campus Master Plan would not modify or increase the county's or the city's existing service area. The Campus Master Plan would include would incrementally increase the service population of the FPD, as it would be anticipated that students and employees not living on campus would primarily reside in the FPD service area. Table 4.9-5 shows the anticipated increase in FFD response calls in the City of Fullerton that would be directly attributed to the Campus Master Plan using the same rate of calls per resident.

Table 4.9-5 Anticipated Change in FPD Response Call Volume

	City of Fullerton Population	Annual Response Call Volume	Calls per Resident	FPD Employees per Call Volume
2019 population	142,824	206,968[1]	1.50	220
Campus Master Plan addition (off-campus residents only)	4,650	-	-	-
2039 population (with Campus Master Plan contribution only)	147,474	221,211	1.50	235
Difference		*14,243*		15

[1]Estimated based on 2018 calls per resident information.

Source: DOF 2019, FPD 2015

As discussed in Section 4.8, *Population and Housing*, the Campus Master Plan would result in the incremental addition of 4,650 students and faculty/staff who would reside off-campus in the FPD service area. As shown in Table 4.9-5, the anticipated call volume for the FPD would increase by 14,243 calls. The FPD currently staffs 220 employees. If FPD maintains the same ratio of employees per call volume, FPD would need to increase staff by 15 employees.

Planning for new or physically altered FPD stations is based on an assessment of the cumulative need for new facilities and irrespective of the Campus Master Plan. The Campus Master Plan itself would not result in the need for new or expanded facilities. The incremental contribution to demand for increased FPD protection services from implementation of the Campus Master Plan would be offset by payment of proportionate property taxes and sales taxes to the City of Fullerton by the addition of new residents. In Fiscal Year 2018-19, police services constituted 49 percent of the City of Fullerton's General Fund (Fullerton 2018). Likewise, property taxes and sales taxes from new residents in neighboring jurisdictions would support the appropriate police protection agency.

Additionally, local policies, including Fullerton Plan Policies P12.2 through P13.11, would continue and improve disaster preparedness efforts, community safety and defensible spaces, and coordination between agencies. Therefore, the Campus Master Plan would not result in the need for new or physically altered police protection facilities and impacts would be less than significant.

Mitigation Measures

No mitigation measures are required.

Significance After Mitigation

Impacts associated with the provision or need for new or physically altered police protection facilities would not be significant.

Threshold 1c:	Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered schools, or the need for new or physically altered schools, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios or other performance objectives?

Impact PS-3 IMPLEMENTATION OF THE CAMPUS MASTER PLAN WOULD INCREMENTALLY INCREASE THE ENROLLMENT OF STUDENTS IN LOCAL SCHOOLS. HOWEVER, ENROLLMENT WOULD NOT CAUSE SCHOOLS TO EXCEED CAPACITY. THEREFORE, THE CAMPUS MASTER PLAN WOULD NOT RESULT IN THE NEED FOR THE PROVISION OF NEW OR PHYSICALLY ALTERED SCHOOLS. IMPACTS WOULD BE LESS THAN SIGNIFICANT. NO MITIGATION MEASURES ARE REQUIRED.

As discussed in Section 4.8, *Population and Housing*, the Campus Master Plan would generate an incremental increase of approximately 7,000 FTES and 1,000 faculty/staff by the Campus Master Plan horizon year. Approximately 12 percent of undergraduate students of four-year public institutions nationwide are parents with children (Institute for Women's Policy Research 2019). Using this statistic, it is estimated that 840 FTES would have dependent children. Table 4.9-6 identifies the number of potential K-12 students that would be generated from the 840 FTES and 1,000 faculty/staff using the student generation factors for FSD and FJUSD. This estimate is highly conservative as it assumes all students and faculty/staff would move into the City from other areas and that all students would be new students at schools in the FSD and FJUHSD. The highest student generation rates were used to provide the most conservative analysis. The data was pulled from the City of Fullerton as it was the most convenient metric to use for this analysis.

Table 4.9-6 Estimated Student Generation

Grade Level	Student Generation Factor	Dwelling Units	Total Students Generated	Available District Capacity	Exceeds Available Capacity?
Elementary/Junior High School	0.5[1]	1,840	920	**9,523**	No
High School	0.205[2]	1,840	377	**1,086**	No
Total		1,840	1,297	**10,609**	No

[1]The generation factor ranges based on location within the City. The highest factor is used.

[2]The generation factor for single-family residences.

Source: The Fullerton Plan EIR (2012)

As shown in Table 4.9-6, FSD and FJUHSD would have available capacity for the estimated number of elementary, junior high, and high school students generated by the Campus Master Plan. Implementation of the Campus Master Plan would not substantially affect the capacity of the nearby public school districts and would not require the construction of new schools or expansion of existing facilities.

Additionally, applicants for new housing construction that would serve an increase in the resident population of Fullerton would be required to pay state-mandated school impact fees (as applied under the 1987 Mitigation Fee Act and codified in Section 66000 of the California State Legislature). Therefore, the Campus Master Plan would not result in the need for the provision of new or physically altered schools, and impacts would be less than significant.

Mitigation Measures

No mitigation measures are required.

Significance After Mitigation

Impacts associated with the provision or need for new or physically altered school facilities would be less than significant.

Threshold 1d:	Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered public facilities, or the need for new or physically altered public facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives?

Impact PS-4 **THE CAMPUS MASTER PLAN WOULD INCLUDE RENOVATIONS AND ADDITIONS TO FACILITY SPACE, INCLUDING POTENTIAL SPACE FOR LIBRARY AND MEDICAL SERVICES, TO MEET DEMAND FROM THE INCREMENTAL INCREASE IN STUDENT AND FACULTY/STAFF POPULATION. THE CAMPUS MASTER PLAN WOULD INCREMENTALLY INCREASE THE DEMAND FOR LIBRARY AND MEDICAL SERVICES IN THE CITY OF FULLERTON AND NEIGHBORING CITIES. HOWEVER, THE CAMPUS MASTER PLAN WOULD INCREASE CAPACITY FOR ON CAMPUS MEDICAL SERVICES REDUCING THE IMPACT TO OFF CAMPUS MEDICAL FACILITIES. IMPACTS WOULD BE LESS THAN SIGNIFICANT. NO MITIGATION MEASURES ARE REQUIRED.**

On-Campus Impacts

CSUF Libraries

The Pollak Library on the CSUF campus has recently completed renovation projects, as previously described above in Section 4.9.1, *Setting*. However, these renovations would occur within the existing area and would not expand or build new library space. Presumably, the need for library services would incrementally increase approximately 30 percent, in association with the student and faculty population increase under the Campus Master Plan until the 2039 horizon year. The Campus Master Plan would direct new library services or collections to be included in new or expanded academic and student life facilities as part of its “Activation” concept. These improvements are designed to accommodate the increased demand associated with the anticipated increase in the student and faculty/staff population; therefore, additional on-campus library facilities beyond what is proposed in the Campus Master Plan would not be necessary. Impacts to CSUF library services would be less than significant.

CSUF Medical Services

The CSUF Student Health and Counseling Center is included in the university’s non-academic facility space. Presumably, the need for medical services would incrementally increase approximately 30 percent, in association with the student and faculty population increase under the Campus Master Plan until the 2039 horizon year. The number of annual visits would be expected to increase by a similar rate. Therefore, it is likely that the Student Health and Counseling Center would need additional facility space to accommodate additional staff and services. For information purposes only (not analyzed as an issue under CEQA in this EIR), the Student Health and Counseling Center could utilize a portion of the approximately 40,000 gsf of non-academic facility space directed the Campus Master Plan. Additional on-campus medical facilities beyond what is proposed in the

Campus Master Plan would not be necessary. The Campus Master Plan would increase medical facilities on campus in proportion to the increase in FTES enrollment, reducing off campus impacts to medical facilities. Therefore, impacts to surrounding medical services would be less than significant.

Off-Campus Impacts

Fullerton Public Library and Orange County Public Library

As previously mentioned in this analysis, the Campus Master Plan would incrementally contribute to approximately 8,000 new residents in Orange County by the 2039 Campus Master Plan horizon year. This population increase may increase the service population of Fullerton Public Library and potentially other libraries in neighboring cities, although all students have access to the Pollack Library, and it is anticipated that most CSUF students will utilize the on-campus library facility. The City of Fullerton and Orange County do not have library facility per capita goals. Expectations to accommodate the increase growth of the City would include, but not be limited to, adding on to existing structures, upgrading amenities to encourage more remote or online usage, additional programming opportunities, and infrastructure upgrades.

Planning for new or physically altered library facilities is based on an assessment of the cumulative need for new facilities and irrespective of the Campus Master Plan. The Campus Master Plan itself would not result in the need for new or expanded facilities. In Fiscal Year 2018-19, library services constituted four percent of the City of Fullerton's General Fund (Fullerton 2018). Future residents from implementation of the Campus Master Plan would pay proportionate property and sales taxes to Fullerton and neighboring cities, which would support investments in new or expanded library facilities and amenities. The Campus Master Plan would not result in the need for new or physically altered library facilities. Therefore, impacts to Fullerton Public Library would be less than significant.

Off-Campus Medical Services

The California industry standards for determining hospital size are the State of California Title 22 and 24 Regulations, which define the minimum sizes of many key "functional units." SJMC's 2010 Specific Plan includes an overall 2030 target bed capacity of 512 beds with a proposed square footage of approximately 1,837 sf per bed, comparable with other similarly sized facilities.

SJMC uses demographic data from SCAG and the DOF, historical trends, and marketplace factors to determine facility needs (SJMC 2010). Population increase directed by the Campus Master Plan, including the 7,000 FTES and 1,000 faculty/staff, would be included in the demographic information used to determine the growth of medical facilities at SJMC and other regional hospitals. Planning for new or physically altered medical facilities, including those at SJMC, is based on an assessment of the cumulative need for new facilities and irrespective of the Campus Master Plan. The Campus Master Plan itself would not result in the need for new or expanded facilities. Therefore, impacts to off-campus medical services would be less than significant.

Therefore, the Campus Master Plan would have no impact on the provision of other new or physically altered library facilities or medical facilities.

Mitigation Measures

No mitigation measures are required.

Significance After Mitigation

The Campus Master Plan would not result in the need for new or physically altered library or medical facilities. Impacts would be less than significant.

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4.10 Recreation

This section assesses the potential for Campus Master Plan implementation to contribute to the physical deterioration of public parks or other recreation facilities or increase demand for those facilities.

a. Setting

CSUF Recreational Facilities

Fullerton Arboretum

As discussed in Section 2.0, *Project Description*, the 26-acre Arboretum, located in the northeastern portion of campus (shown on Figure 2-2), serves as a resource for research, education and the region's agricultural heritage. Located adjacent to E. Campus Drive to the north and east, parking lots to the south, and athletic facilities to the west, the Arboretum is enjoyed as a regional recreation area as well as a campus research and education facility, containing waterfalls, ponds, trails, and plant collections (see Figure 4.1-1, Photograph 2 in Section 4.1, *Aesthetics*). The Arboretum currently contains a visitor center, Heritage House historic building, plant nursery, and garden sale area. Students from various majors use the space to complete Arboretum-related projects. In 2004, a visitors' center with classrooms, a pavilion, museum, and other modifications was constructed.

The Arboretum contains four major plant collections: Cultivated, Woodlands, Mediterranean, and Desert Collections. Highlights include native vegetation, the rare fruit grove, organic vegetable garden, historic citrus and avocados, Channel Islands Garden, an extensive cycad collection, conifer collection, palm grove, community gardens, and the Children's Garden.

The facility began in a field of the region's iconic orange groves, and officially opened to the public in 1979. On March 24, 1976, a Joint Exercise Powers Agreement (JPA) was created between the Redevelopment Agency of the City of Fullerton and the Trustees of the CSU creating an agency to be known as the Arboretum Authority. Part of the university's contribution to the JPA was to grant the Arboretum Authority use of university owned land for use as an Arboretum. In 1977, the Authority entered into a Site Lease with the University for the use of the University land. The JPA is set to terminate in December 2020, with the Fullerton Arboretum Authority maintaining responsibility for the living collections and the historic collections through December 3, 2020. At that time management and operation of the Arboretum will fall back to CSUF, who plan to administer the facility through CSUF Extension and International Programs. (CSUF 2020a).

RESEARCH, CONSERVATION, AND COMMUNITY INITIATIVES

One component to the Arboretum's Level IV ArbNet accreditation is its contribution to research and conservation projects. Its collection features plants from around the world and is made globally accessible through Botanic Gardens Conservation International. The Arboretum is one of only 21 arboretums in the world to be awarded a level IV accreditation for its plant collection and educational value. To earn the highest level of accreditation, arboreta must employ well-qualified tree scientists engaged in publishing sophisticated research, manage living tree collections for the purpose of conservation, and take an active role in supporting tree conservation through the Global Trees Campaign (ArbNet n.d.). CSUF students conduct research in the Arboretum through the

University Stem Initiative, which focuses on biological and agricultural conservation research, and the Urban Agriculture Community-Based Research Experience (U-ACRE), which focuses on sustainable urban food systems and food justice. U-ACRE and its research are funded by the National Institute of Food and Agriculture, a research agency within the USDA. U-ACRE students mentor K-12 students, other college students, and community members in experiential learning. Programs include waste diversion and composting, school and community gardens, addressing food insecurity, integrated workforce development, and sustainable agriculture and productivity (CSUF 2020b).

The Integrating Culinary, Agriculture, and Nutrition (I-CAN) Project is a joint effort by Monkey Business Café, the U-ACRE Project, and the Arboretum. I-CAN provides workforce development for young people who have recently been emancipated from the foster care system. Monkey Business Café is a unique farm-to-table enterprise that integrates the Arboretum's urban farm with a neighborhood restaurant. Coupled with applied research activities conducted by U-ACRE, this unique program prepares former foster youth for career pathways through a complete farm-to-table training program. Participants from Monkey Business Café grow produce in the Arboretum farm, in a collaborative mentorship with Arboretum staff and U-ACRE faculty and students, as well as service-learning students from several CSUF classes. The participants then use the produce at Monkey Business Café, where they receive training in culinary arts including recipe development and food preparation. The participants also work with U-ACRE faculty and students to conduct nutritional analysis of Monkey Business Café menu items and product line using professional software at CSUF (CSUF 2020c).

ENVIRONMENTAL EDUCATION PROGRAM

The Arboretum offers the Environmental Education Program, which is a grant-funded, curriculum-based outdoor science program geared towards grades three through seven that is free for educators. Children learn science in a "living laboratory." The Environmental Education Program has served more than 65,000 students (CSUF 2017).

CLASSES AND WORKSHOPS

The Arboretum offers fee-based classes for students and the broader community on bonsai trees, composting, culinary arts, forest bathing, medicinal and edible plants, nature photography, painting, and yoga. The Arboretum also offers presentations about the plant collections and history to groups.

HERITAGE HOUSE

Dr. George Crook Clark, one of Fullerton's pioneer doctors, built the house in 1894. This house was originally located at the corner of Amerige Avenue and Harvard (Lemon) Street in Fullerton. Through the decades, it deteriorated. The city purchased the house, which was in danger of demolition thanks to a street-widening project, in 1972, where it was relocated to the Arboretum. The Friends of the Fullerton Arboretum restored and furnished the interior of the house, which currently serves as a museum of family life and medical practice in the 1890s. The redwood and fir structure is an example of Eastlake-Victorian-style architecture, prevalent in Orange County during the late 1800s. The Heritage House yard includes an 1880s outhouse, a pump house circa 1895 and a windmill (CSUF 2020a).

ORANGE COUNTY AGRICULTURAL AND NIKKEI HERITAGE MUSEUM

The Orange County Agricultural and Nikkei Heritage Museum is reminiscent of packing houses used by the citrus industry in the early 1900s. Design elements also resemble existing structures and gardens on the grounds. The energy-efficient museum complex includes an exhibit space, classrooms and an outdoor pavilion that can accommodate 350 people for special events. Classrooms can be arranged in multiple configurations to accommodate classes and meetings. Museum exhibits focus on southern California's agricultural, natural, and social history (CSUF 2020a).

Campus Recreational Facilities

In addition to the Arboretum, CSUF contains more than two acres (approximately 95,000 sf) of on-campus active recreational facilities, including playing fields, recreation center, athletic courts, and a swimming pool. Facilities are available for use by students, faculty, staff, and affiliates. As described in Section 2.0, *Project Description*, and shown on Figure 2-5, a large portion of the northern half of campus consists of facilities to support CSUF's Athletics programs, namely Titan Stadium, Goodwin Field, Anderson Family Field, and the Titan Sports Complex. Many of the athletic facilities are bordered by operations service buildings to the west, paved parking lots to the north, Gymnasium Drive to the south, and the Fullerton Arboretum and campus housing to the east. Recreational facilities in the southern portion of campus include the Titan Bookstore, Titan Student Union, and the Student Recreation Center.

CSUF Associated Students oversees recreational activities on campus outside of the CSUF's Athletics programs. The Student Recreation Center, located on the west side of campus, serves as a primary resource for recreational activities on campus and programs that offer off-campus recreation activities. The CSUF Athletics department oversees 10 university sports teams.

City of Fullerton Parks and Recreational Facilities

The City of Fullerton contains approximately 28 miles of recreational trails. Parks and recreational facilities in the city are managed by the Parks and Recreation Department, which oversees more than 50 parks, 15 pedestrian and equestrian trails, four neighborhood centers, and event and recreation spaces. The City's parks and open space lands generally include publicly owned properties, which include regional, specialized, or local park facilities; areas under private ownership designed for outdoor recreational activities; and sites in a natural or unimproved state. The Department's land use designation is applied to public parks and recreational facilities, privately owned recreational facilities, landscaped and greenbelt areas, open space conservation areas, public golf course facilities, and areas that are subject to flood and/or seismic hazards (Fullerton 2019a).

The 2019 population of the City is 142,824 (DOF 2019). According to the Trust for Public Land, six percent of Fullerton's land (856.32 acres) dedicated to parks and recreation (Trust for Public Land 2018). Using these figures, the City currently has a park-to-population ration of 6.0 acres per 1,000 people. Public school facilities, although not formally included in the improved public open space category, offer joint-use recreational resources and facilities such as playgrounds, athletic fields, gymnasiums, auditoriums, sports fields, and swimming pools.

Major recreation facilities are listed below:

- The Fullerton Center, located at 340 W. Commonwealth Avenue, is approximately 3.3 miles from CSUF via local roadways. It is the main recreation and event facility in the city.

- The Muckenthaler Cultural Center, located at 1201 W. Malvern Avenue, is approximately 3.9 miles from CSUF via local roadways. It offers year-round art exhibitions, educational programs, events, classes and a gift shop.
- The Fullerton Museum Center, located at 301 N. Pomona Avenue, is approximately 2.6 miles from CSUF via local roadways. The Museum presents multidisciplinary exhibitions and educational programs in the areas of history, science, art and humanities.
- Independence Park is located at 801 W. Valencia Drive, is approximately 4.1 miles from CSUF via local roadways. It contains the Janet Evans Swim Complex, racquetball courts, skate park, gymnasium, and a farmer's market.
- The Janet Evans Swim Complex is managed by the Fullerton Aquatics Sports Team Inc. in Partnership with the City of Fullerton and has a main Olympic-size 50-meter competition pool and a seven lane 25-yard teaching pool.

The nearest City parks to CSUF include Acacia Park approximately 0.5 mile east, Craig Regional Park approximately 0.5 mile north, and Fullerton Greenbelt Park approximately 700 feet west of campus. All trails are located in the northern area of the city, with the exception of the Juanita Cook Greenbelt and Hiltscher Park Trail. The Union Pacific right-of-way, which would run almost entirely through the city, is listed as a "Backbone Trail" but is not yet constructed. The Union Pacific railway line was developed through Fullerton in the 1920s, but this branch was abandoned in the 1990s (Yanity 2019).

Additionally, other public colleges, such as Fullerton Community College and private educational institutions in the city, contain athletic and recreational facilities for students, faculty, and the public.

b. Regulatory Setting

CSUF is an entity of the CSU, which is a constitutionally created state agency, and is therefore not subject to local government planning and land use plans, policies, or regulations. CSUF may consider, for informational purposes, aspects of local plans and policies for the communities surrounding the campus when it is appropriate. The Campus Master Plan would be subject to state and federal agency planning documents described herein but would not be bound by local or regional planning regulations or documents such as The Fullerton Plan or municipal code.

Local

The Fullerton Plan (2012)

The Fullerton Plan, aims to achieve the City's vision by aligning city efforts, connecting with local and regional partners and advocating for community engagement. The plan provides a framework for the community and covers different sectors such as economics, demographics, and physical characteristics. Specific policies in The Fullerton Plan that relate to parks and recreational facilities and relevant to the Campus Master Plan include the following:

GOAL 1: Resilient and vital neighborhoods and districts.

- **P1.4 Connection and Integration of Uses.** Support projects, programs and policies to improve connections between housing, shops, work places, schools, parks and civic facilities, and integrate uses where possible and appropriate. (See Chapter 4: Mobility for related policies.)

- **P1.13 Universal Design.** Support projects, programs, policies and regulations to produce buildings and environments that are inherently accessible to people of all abilities.

GOAL 5: A balanced system promoting transportation alternatives that enable mobility and an enhanced quality of life.

- **P5.10 Easements and Rights-Of-Way.** Support projects, programs, policies and regulations to use public easements and rights-of-way along flood control channels and/or inactive railroads as part of the multi-modal network.

GOAL 14: An environment with opportunities for community health and wellbeing.

- **P14.4 Community Gardens.** Support policies, projects, programs and regulations that encourage community gardens that are operated and managed by local volunteers and that provide for small-scale local food production in areas convenient to residents.
- **P14.5 Opportunities for Physical Activity.** Support policies, projects, programs and regulations that provide for convenient and safe areas that facilitate opportunities for physical activity such as parks, trails, open space, safe streets for bicycling, safe sidewalks for walking, and recreational facilities for residents of all ages and abilities. (See Chapter 12: Parks and Recreation for related policies.)
- **P14.6 Amenities Within a Walkable Distance.** Support policies and regulations involving land use and zoning changes that would provide access to daily retail needs, recreational facilities, and transit stops within a walkable distance (i.e., a quarter- to a half-mile) of established residential uses.

GOAL 15: Parks, recreational facilities, trails, and programs that promote a healthy community and a desirable quality of life.

- **P15.1 North Orange County Parks and Recreation Collaboration.** Support regional and subregional efforts to establish and maintain a collaboration of parks and recreation programs, to share best practices, discuss solutions to common challenges, and explore opportunities for connecting and expanding trails, joint use of parks and recreational facilities, and recreation programming for participating cities.
- **P15.2 Existing Parks and Recreation Resources.** Support policies, projects, programs and regulations that preserve, protect, maintain and enhance Fullerton's existing parks, recreational facilities and trails.
- **P15.3 Access to Recreation Programs.** Support policies, projects, programs and regulations that strengthen access to quality recreation programs which, in turn, promote a sense of community and a higher quality of life for Fullerton residents.
- **P15.4 Partnerships with Other Agencies.** Support policies and programs that bolster appropriate partnerships between the City and agencies, including educational institutions, railroad franchises, utility companies, etc., to secure, co-locate or otherwise share parks, recreational facilities and trails on school campuses, within public easements and in other similar locations.
- **P15.5 Partnerships with Private Ventures.** Support policies, projects, programs and regulations allowing commercial ventures as ancillary uses in Fullerton parks and recreational facilities when determined they are context-appropriate, complementary to the facilities, viewed as a public benefit, and generate revenue that supports parks and recreational programs and facilities.

- **P15.6 Accessible Citywide Park System.** Support policies, programs and regulations that facilitate the planning, design and development of an extensive system of parks (passive and active), recreational facilities, and trails that meets the current needs of Fullerton residents and is accessible and within a 15-minute walking distance (i.e., one-quarter to one-half mile) of every Fullerton resident. (Also see Chapter 19: Open Space and Natural Resources, P24.10 Trail Linkages to Open Space.)
- **P15.7 Park-to-Population Ratio.** Support projects and programs that contribute to a citywide minimum park-to-population ratio of 4 acres per 1,000 people.
- **P15.8 Recreation Programming.** Support programs that promote recreational activities that facilitate healthy and community-oriented lifestyles for Fullerton residents.
- **P15.9 Community-Based Parks and Recreation Program.** Support policies, projects and regulations that reinforce a City commitment to a community-based parks and recreation program that maximizes opportunities to share information, promote two-way communication, and involve the Fullerton community and user groups in integrating a broad and diverse range of interests and concerns pertaining to the planning, development, enhancement and rehabilitation of parks, recreational facilities and trails.
- **P15.10 Park Dwelling Fee.** Support policies and regulations which require new construction of dwelling units in the City to pay a park dwelling fee that provides for the creation and enhancement of open space, parks and recreational facilities accessible to all residents.
- **P15.11 Park Renovation Considerations.** Support projects and programs for renovating or improving existing parks that consider the needs and desires of the surrounding neighborhoods and districts.
- **P15.12 Parks and Recreational Facilities in Focus Areas.** Support projects, programs, policies and regulations to consider parks, recreational facilities and trails as part of community-based planning of Focus Areas.
- **P15.13 Context-Sensitive Design.** Support projects and programs incorporating design features in parks, recreational facilities and trails that reflect the sense of place and unique characteristics of the local context.
- **P15.14 Compatibility with Adjacent Properties.** Support policies and programs pertaining to public parks, recreational facilities and trails that interface with private property that advance reciprocal compatibility through collaboration, programming and design.
- **P15.15 Community Involvement.** Support projects and programs that involve the Fullerton community in park improvement plans through workshops, focus group discussions, and interviews and surveys with park users.
- **P15.16 Relationships to Development Projects.** Support projects located adjacent to or near parks and trail facilities that facilitate connections and reinforce a positive relationship between private property and public parks and trails.

GOAL 24: Responsible management of open spaces balanced with the healthy functioning of environmental systems.

- **P24.1 Management and Maintenance.** Support projects, programs and policies to coordinate with existing regional park districts, the private sector and nonprofit institutions to manage and maintain regional open spaces.
- **P24.2 Land Trusts.** Support projects, programs and policies to encourage the establishment of land trusts to help preserve significant open space within the region.

- **P24.3 Access and Use of Open Space.** Support projects, programs, policies and regulations to increase access to and use of open space resources while respecting the natural environment.
- **P24.4 Accessibility for All.** Support projects, programs, policies and regulations to ensure that, when natural topography allows, public open spaces are accessible to people of all abilities.
- **P24.5 Long-Range Needs.** Support projects, programs, policies and regulations to preserve areas of open space sufficient to meet the long-range needs of the City.
- **P24.6 Watershed Management.** Support projects, programs, policies and regulations to manage open space watersheds to limit potential fire and erosion hazards.
- **P24.7 New Open Space.** Support projects, programs, policies and regulations to create open space as funding and other opportunities become available.
- **P24.8 Environmentally Sensitive Areas.** Support projects, programs, policies and regulations to preserve the environmentally sensitive areas of public open spaces.
- **P24.9 Passive Open Space.** Support projects, programs, policies and regulations to encourage diverse, environmentally-sensitive, passive open spaces.
- **P24.10 Trail Linkages to Open Space.** Support projects, programs, policies and regulations to promote recreational trails and the bikeway system to link open spaces to public areas and neighborhoods.
- **P24.11 Open Space in Focus Areas.** Support projects, programs, policies and regulations to evaluate increasing urban and natural open spaces as part of community-based planning of Focus Areas.
- **P24.12 Environmental Impact of Support Facilities.** Support projects, programs, policies and regulations to limit the construction of facilities in open space areas and to design necessary improvements, such as fire roads, access roads, and parking facilities, to minimize environmental impacts and maintain the visual qualities of the open space.
- **P24.13 Maintenance of Sensitive Areas.** Support programs, policies and regulations to require maintenance of environmentally-sensitive areas by qualified/trained personnel and/or contractors.

City of Fullerton Municipal Code

California Government Code Section 66477, Subdivision Map Act, referred to as the Quimby Act, permits local jurisdictions to require the dedication of land and/or the payment of in-lieu fees solely for park and recreation purposes. The City of Fullerton Community Development Department collects fees from new residential, commercial, and other buildings for the purposes of funding public services, as directed by Fullerton Plan Policy P15.10. Section 21.12.040 of the Municipal Code states that all money collected as fees for parks from residential building permit construction shall be deposited in the park dwelling fund and shall be used solely for the acquisition, development, improvement, and maintenance of public parks and recreational facilities in the City, as proposed by the City's Five-Year Capital Improvement Program. The Park Dwelling Fee for Fiscal Year 2018-19 is $12,020 per dwelling unit. (Fullerton 2019b).

4.10.1 Impact Analysis

a. Thresholds of Significance

To determine whether a project would result in a significant impact to Recreation, Appendix G of the CEQA Guidelines requires consideration of whether a project would:

1. Increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated.
2. Include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment.

c. Methodology

Evaluation of potential recreation impacts was based on a review of documents identifying current level of service standards for the local jurisdictions, including the Fullerton Plan (as general reference points). Impacts on recreation that would result from the project were identified by comparing existing park capacity and facilities against future demand associated with project implementation.

d. Impact Analysis

Threshold 1:	Would the project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?
Threshold 2:	Does the project include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment?

Impact REC-1 THE CAMPUS MASTER PLAN WOULD INCREMENTALLY DEVELOP OR SUSTAIN NEW RECREATION FACILITIES, INCLUDING 100,000 SF OF NEW FACILITY SPACE IN THE FULLERTON ARBORETUM, EVENT CENTER, AND RECREATION AREAS, THAT WOULD ADEQUATELY SERVE THE INCREASE IN CAMPUS POPULATION. ADDITIONALLY, THE CAMPUS MASTER PLAN WOULD NOT RESULT IN SIGNIFICANT DETERIORATION OF OFF-CAMPUS FACILITIES. IMPACTS WOULD BE LESS THAN SIGNIFICANT. NO MITIGATION MEASURES ARE REQUIRED.

As discussed in Section 4.13, *Population and Housing*, the Campus Master Plan would generate an incremental increase of approximately 7,000 FTES and 1,000 faculty/staff by the 2039 Campus Master Plan horizon year. Approximately 3,350 of these students and faculty/staff would be accommodated with on-campus housing, and 4,650 would be accommodated by non-campus housing in the City of Fullerton and neighboring cities. All students and faculty would access on-campus and off-campus open space and recreation opportunities. Impacts to parks and recreation facilities on and off-campus are discussed below.

Fullerton Arboretum

Due to the proposed increase in students, faculty, and staff using CSUF facilities, the Arboretum would be expected to have an increase in number of annual visitors, events, and educational and research activities. The Campus Master Plan maintains the Arboretum as a strong contributor to promoting community within campus and with the surrounding neighborhoods and directs improvements to include expanded programming for academic uses as well as opportunities for relaxation and enjoyment. The Campus Master Plan would direct development that supports the mission of the Arboretum, protect its assets, and allows the facility to be self-sustaining. The Campus Master Plan would develop 100,000 gsf of improved and replaced facility space in the Arboretum, including existing administration space, green house, and pavilion, that would augment

existing facilities and support its programs and mission. Updates to existing Arboretum facilities are needed to support the facility's mission and to continue the integration of the Arboretum with student, faculty, and community needs

Th Campus Master Plan also includes improving access and connections throughout the campus and planning for deliberate connection to pedestrian and bicycle circulation paths, such as the proposed Green Loop that connects the center of campus. Improved connections on campus would facilitate classroom activity in the Arboretum and recreational and relaxation opportunities for the campus population. Considerations for the Arboretum include:

- Recognizing and preserving the importance of the Arboretum as a campus and community asset
- Keeping a secure boundary around the Arboretum to protect its historic and educational assets by maintaining the existing fence
- Connecting the Arboretum to other recreational and open space areas on campus using the Green Loop
- Extending the natural beauty and identity of the Arboretum to open spaces throughout the campus
- Developing new or changing existing programs to better integrate the arboretum into the curriculum of the university
- Increasing its ability to assist overall campus sustainability, such as expanding the composting facility to be able to compost waste from the campus, using and/or producing mulch to reduce the need for chemical fertilizer, and developing a biochar production facility to aid carbon sequestration
- Utilizing the Arboretum for integrating a "working/learning" campus, using the physical campus as a means for hands-on education

The continued maintenance and preservation of the Arboretum, as directed by the Campus Master Plan, would offset potential deterioration by increased use of its trails or facilities. The proposed improved facility space in the Arboretum which would offset impacts to facilities from increased visitation and enhance its functional ability and integration within the campus. Impacts to the Arboretum would be less than significant.

CSUF Open Space and Recreation Facilities

The Campus Master Plan would incrementally increase the use of existing open space and recreational facilities. In order to develop a design concept that focuses on the physical and emotional well-being of the campus population and meet increased demand for recreational and open spaces, the Campus Master Plan would incrementally develop six signature forms of open space:

- Plazas: gathering spaces for small or large groups or outdoor events, concentrated on the southern half of campus.
- Courtyards: small, semi-private areas of open space that may act as an extension of academic or residential space, concentrated in proposed residential areas and academic core.
- Greens: large gathering areas with permeable surfaces, three in the center of campus and one in a residential area.
- Art and Identity: public art located throughout campus with attention to campus edges.

- Front Porches: building entrances that blend indoor and outdoor spaces, namely at academic buildings.
- Arboretum: preservation of CSUF's most significant open space.

As shown in Figure 4.10-1 below, one of the major tenants of the Campus Master Plan is a "Green Loop" pathway that connects major activity areas and also provides recreational opportunities as a walk/bike path. The Campus Master Plan would also create walk/bike pathways along a "hierarchy of axes" throughout the campus. The Campus Master Plan would also develop a new 254,100-gsf event center and a 72,762 gsf Innovation Hub, which would provide space for athletics, intramural sports, student programming, and community events. The additional and improved facilities would distribute use and decrease demand on existing facilities.

Implementation of the Campus Master Plan would improve recreational opportunities compared to existing conditions and would provide adequate recreational opportunities for the projected increase in students, faculty, and staff. Impacts to on-campus open space and recreation facilities would be less than significant.

City of Fullerton

Although the Campus Master Plan and CSUF policies are not under authority by local jurisdictions, local regulations are included in this section of the EIR because it is assumed that the majority of the increased population associated with the Campus Master Plan would reside in the City of Fullerton and to a lesser extent, neighboring cities such as Buena Park, La Habra, and Placentia (a detailed description of population and housing assumptions is included in Section 4.13, *Population and Housing*).

Fullerton Plan Policy P15.7 instructs a citywide minimum park-to-population ratio of four acres per 1,000 people and the City currently has a ratio of 6.0 acres per 1,000 people. The Campus Master Plan would accommodate 8,000 students and faculty/staff housing by the 2039 horizon year. Although all students, faculty, and staff may access these facilities, the highest demand would likely occur from the campus population living in non-campus housing. Under the conservative assumption that all new residents, both residing on and off-campus, visited park space in the City of Fullerton, the impact from the Campus Master Plan would change the city's park-to-population ratio to 5.7 acres per 1,000 residents, a decrease of 0.3 acre per 1,000 residents but still above its park-to-population goal.

Figure 4.10-1 Proposed Campus Master Plan Open Space

In addition, further residential development in nearby communities, including in the City of Fullerton, would be required to meet Quimby Act requirements, which ensure adequate open space is provided based on anticipated population. The potential need for new recreational facilities would be addressed at the site of the new housing development or through the collection of development impact fees. The City's development program, including parks and recreational facilities, is regularly evaluated and impact fees collected, as determined necessary, would be used to provide additional recreational opportunities. Therefore, any necessary recreational facility improvements within neighboring communities would either be addressed through compliance with the Quimby Act and/or through the collection of development impact fees of the respective community.

Consequently, the potential increased population associated with the Campus Master Plan would not cause substantial deterioration of off-campus recreation facilities or result in the need for the construction of new facilities which might have an adverse physical effect on the environment. Because the project would include maintenance, improvement, and construction of parks and recreation facilities to serve an associated increase in population and would not require the construction or expansion of facilities beyond what is proposed in the Campus Master Plan, this impact would be less than significant.

Mitigation Measures

No mitigation is required.

Significance After Mitigation

Impacts would be less than significant without mitigation.

4.11 Transportation

This section describes the existing transportation system serving and surrounding CSUF and analyzes and evaluates impacts pertaining to VMT; transit, bicycle, pedestrian, and facilities; roadway hazards; and emergency access resulting from implementation of the Campus Master Plan. The analysis in this section is based on the TIS prepared for the Campus Master Plan project by Fehr & Peers (January 2020). The complete TIS is included in Appendix M of this document.

4.11.1 Environmental Setting

a. Project Study Area

The project TIS (Appendix M) evaluated the traffic impacts of campus growth and defined the study area for traffic and transportation analyses to include the main CSUF campus and 13 roadway segments surrounding the campus. The TIS area for the traffic analysis is shown in Figure 4.11-1, and includes the following roadway segments:

- South State College Boulevard from SR 91 to Fender Avenue
- South State College Boulevard from Fender Avenue to Nutwood Avenue
- North State College Boulevard from Nutwood Avenue to Yorba Linda Boulevard
- North State College Boulevard from Yorba Linda Boulevard to SR 90
- Nutwood Avenue from North State College Boulevard to SR 57
- Nutwood Avenue/Primrose Avenue from SR 57 to Bradford Avenue
- Yorba Linda Boulevard from North State College Boulevard to Placentia Avenue
- E. Chapman Avenue from North State College Boulevard to SR 57
- E. Chapman Avenue from SR 57 to Bradford Avenue
- Associated Road from SR 90 to Bastanchury Road
- Associated Road from Bastanchury Road to Yorba Linda Boulevard
- Commonwealth Avenue from Nutwood Avenue to Chapman Avenue
- Commonwealth Avenue from Chapman Avenue to South State College Boulevard

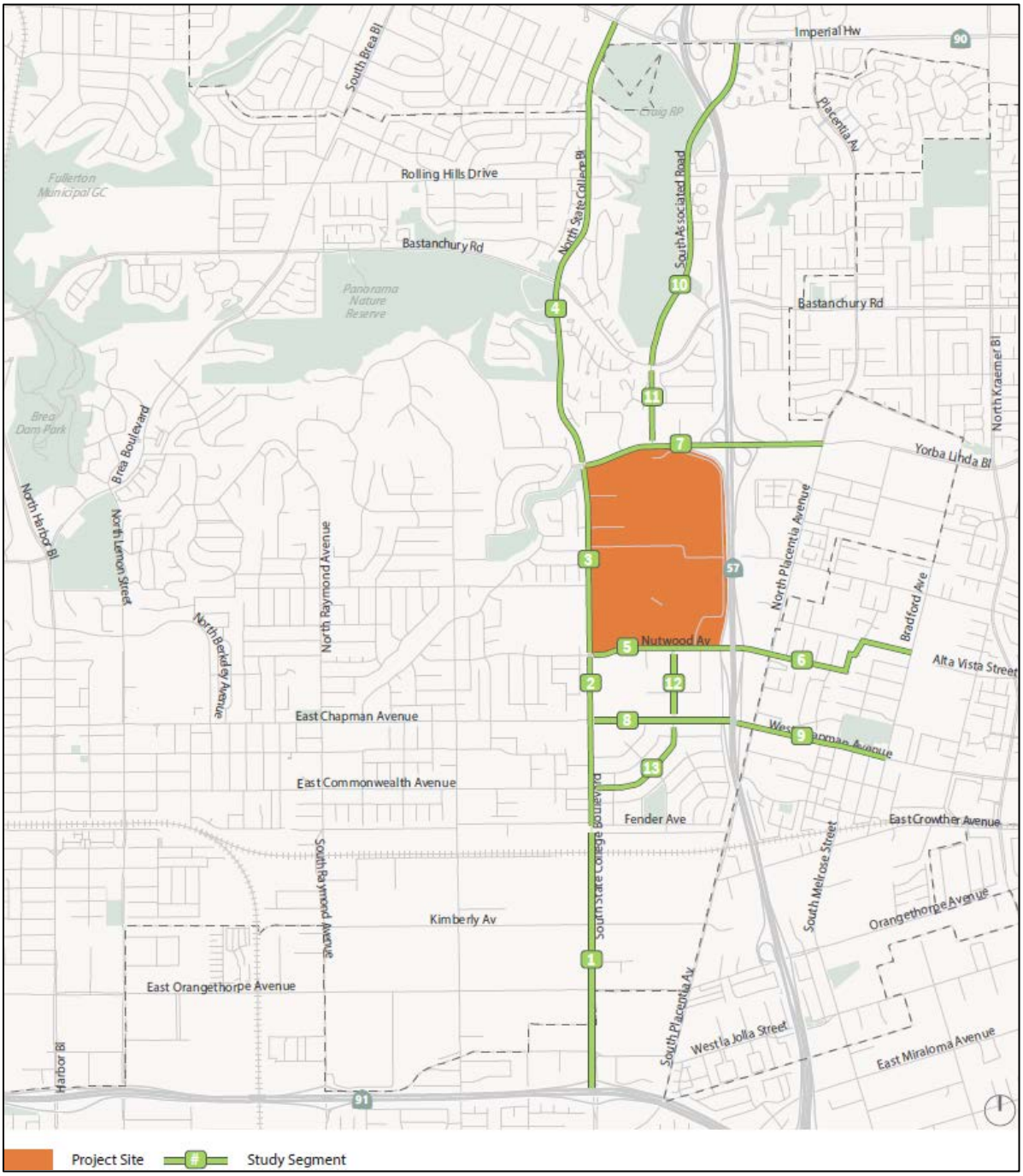
b. Existing Roadway Network

Regional Roadway System

Regional access to the CSUF campus is provided by SR 57, SR 90, and SR 91. Brief descriptions of the regional roadways are included in the TIS (Appendix M), and summarize below:

- **SR 57** (*Orange Freeway*) provides north-south regional access between Orange and Los Angeles counties, and contains five travel lanes and one carpool lane in each direction. SR 57 borders the CSUF campus to the east and provides access to the CSUF campus via the Yorba Linda Boulevard interchange.

Figure 4.11-1 Project Site Vicinity and Analysis Locations



Source: Fehr & Peers 2020.

- **SR 90** (*Imperial Highway*) provides east-west regional access between Orange and Los Angeles counties, and contains three travel lanes in each direction. SR 90 connects to SR 57 north of the campus.
- **SR 91** (*Riverside Freeway*) provides east-west regional access between Los Angeles, Orange, and Riverside counties. SR 91 contains four travel lanes and one carpool lane in each direction. SR 91 connects to SR 57 south of the campus.

Local Roadway System

The City of Fullerton utilizes a roadway functional classification system to provide a logical framework for the design and operation of the city's roadway network. The five roadway classifications are shown in Table 4.11-1.

Table 4.11-1 Roadway Functional Classifications

Facility Type	Number of Travel Lanes (Minimum)	Right-of-Way Width	Typical Daily Volume
Major Arterial Highway	6 divided	100 to 120 feet	30,000 to 90,000
Primary Arterial Highway	4 divided	80 to 84 feet	20,000 to 33,000
Secondary Arterial Highway	4 undivided	80 to 84 feet	16,000 to 22,000
Local Collector Street	2 undivided	60 to 84 feet	10,000
Residential Street	2 undivided	Varies, typically 50 to 60 feet	Varies

Source: City of Fullerton 2012

The principal local network of streets serving CSUF include Nutwood Avenue to the south, North State College Boulevard to the west, and Yorba Linda Boulevard to the north. The following discussion provides a brief description of these key local streets. The descriptions are based on an inventory of existing roadway conditions includes in the TIS (Appendix M), which also contains a description of all local roadways in the study area.

- **Nutwood Avenue** is a six-lane Primary Arterial Highway, south of the CSUF campus. It provides east-west mobility and direct access to the campus. The posted speed limit is 35 miles per hour (MPH). Traffic signals are located at the intersections with North State College Boulevard, Titan Drive, Commonwealth Avenue, and Langsdorf Drive. Nutwood Avenue provides direct access to internal roadways within the Campus Master Plan area. On-street parking is not permitted on Nutwood Avenue.
- **North State College Boulevard** is a six-lane Major Arterial Highway, west of the CSUF campus. It provides north-south mobility with direct access to internal roadways within the Campus Master Plan area. The posted speed limit is 40 MPH. Traffic signals are located at the intersections with Yorba Linda Boulevard, Dorothy Lane, Arts Drive, and Nutwood Avenue. On-street parking is not permitted on North State College Boulevard.
- **Yorba Linda Boulevard** is a six-lane Major Arterial Highway, north of the campus. It provides east-west mobility with direct access to internal roadways within the Campus Master Plan area. The posted speed limit is 40 MPH. Traffic signals are located at the intersections with North State College Boulevard and Associate Road/Campus Drive. On-street parking is not permitted on Yorba Linda Boulevard.

c. Transit System

Transit service in the TIS area is provided by CSUF, Orange County Transportation Authority (OCTA), Metrolink, and Amtrak.

CAMPUS SHUTTLE

CSUF offers free shuttle service from the First Evangelical Free Church (2801 N. Brea Boulevard in Fullerton) to the Parking and Transportation Services Office (along North State College Boulevard, just north of the State College Boulevard and Ranch Road/Corporation Drive intersection), which is an approximately two-mile distance each way. The shuttle service runs every 10 to 15 minutes, Monday through Thursday, between approximately 7:30 a.m. and 7:30 p.m.

ORANGE COUNTY TRANSPORTATION AUTHORITY

OCTA provides public transportation service throughout Orange County, and OCTA's service area includes the CSUF campus. In 2018, OCTA saw a ridership total of approximately 38.5 million riders, the lowest ridership OCTA had seen in 30 years (VoiceofOC 2019). In 2019, OCTA proposed several changes to transit services including service changes to more than 20 bus routes that have seen underutilized ridership. According to the Voice of Orange County, a non-profit news agency in the County, reported that Route 53 saw around 6,000 boardings as of December 2018, along with Route 206 seeing a weekly boarding average of 47 passengers and Route 213 with an average of 44 passengers a week. The Orange County Register (OCR) expects the proposed bus changes to generate approximately 107,000 additional annual boardings (OCR 2019).

The TIS (Appendix M) provides a list of all OCTA bus routes that run within two miles of CSUF. OCTA Routes 24, 26, 57, 153, and 213 all serve the CSUF campus (CSUF 2019a). Starting in 2020, Route 57 will run every 12 to 13 minutes along with Route 57x which will come approximately every 16th minute and 32nd minute of the hour (OCTA 2020). These lines operate from 6:00 a.m. to 6:00 p.m. Monday through Friday. Route 213 runs every 20 minutes and runs only during peak traffic hours. Route 153 services 42 stops with frequencies varying and runs from 7:00 a.m. to 7:00 p.m. OCTA bus routes, frequencies and headways change often due to merging bus routes and the addition/elimination of bus services.

CSUF offers discounted OCTA bus passes to students, faculty, and staff to encourage bus use. The following is a listing of existing bus stops along the perimeter of the CSUF campus and the routes that serve the stops:

- Yorba Linda-Campus (OCTA Stop ID 7879), located near the southeast corner of the Yorba Linda Boulevard and Associated Road/Campus Drive intersection on the north end of campus, served by Route 153 (Brea to Anaheim).
- State College-Corporation (OCTA Stop ID 1934), located along the east side of North State College Boulevard just north of the North State College Boulevard and Ranch Road/Corporation Drive intersection, served by Routes 57 and 57x (Brea to Newport Beach).
- State College-Campus (OCTA Stop ID 1933), located along the east side of North State College Boulevard just north of the North State College Boulevard and Dorothy Land intersection, served by Routes 57 and 57x.
- State College-Nutwood (OCTA Stop ID 1932), located along the east side of North State College Boulevard just north of the North State College Boulevard and Nutwood Avenue intersection, served by Routes 57 and 57x.
- Nutwood-Commonwealth (OCTA Stop ID 1864), located along the north side of Nutwood Avenue at the intersection of Nutwood Avenue and Commonwealth Avenue, served by Route 24 (Buena Park to Orange).

METROLINK AND AMTRAK RAIL SERVICE

Fullerton Station (120 E. Santa Fe Avenue) is located approximately three miles southwest from campus. Metrolink and Amtrak operate rail services throughout Southern California, with stops at the Fullerton Station.

Metrolink provides regional rail service in the Greater Los Angeles region and other parts of Southern California. Metrolink's Orange County Line runs from Oceanside to Los Angeles between approximately 4:35 a.m. and 11:55 p.m. on weekdays and between approximately 8:15 a.m. and 8:00 p.m. on weekends. On weekdays, the Orange County Line stops at Fullerton Station between approximately 4:45 a.m. and 10:30 p.m. with variable headways of about 15 to 90 minutes. On weekends, the Orange County Line stops at Fullerton Station between approximately 9:15 a.m. and 7:00 p.m. with variable headways of about 120 to 130 minutes. CSUF students are eligible to receive discounted fares for the Metrolink (CSUF 2019a).

Amtrak provides rail service though California and other states. The Pacific Surfliner provides service between San Diego and San Luis Obispo, running daily between approximately 4:10 a.m. and 12:10 a.m. The Pacific Surfliner stops at Fullerton Station on weekdays between approximately 6:10 a.m. and 11:10 p.m. with variable headways of about 45 to 125 minutes and stops at Fullerton Station on weekends between approximately 6:35 a.m. and 11:10 p.m. with variable headways of about 45 to 125 minutes.

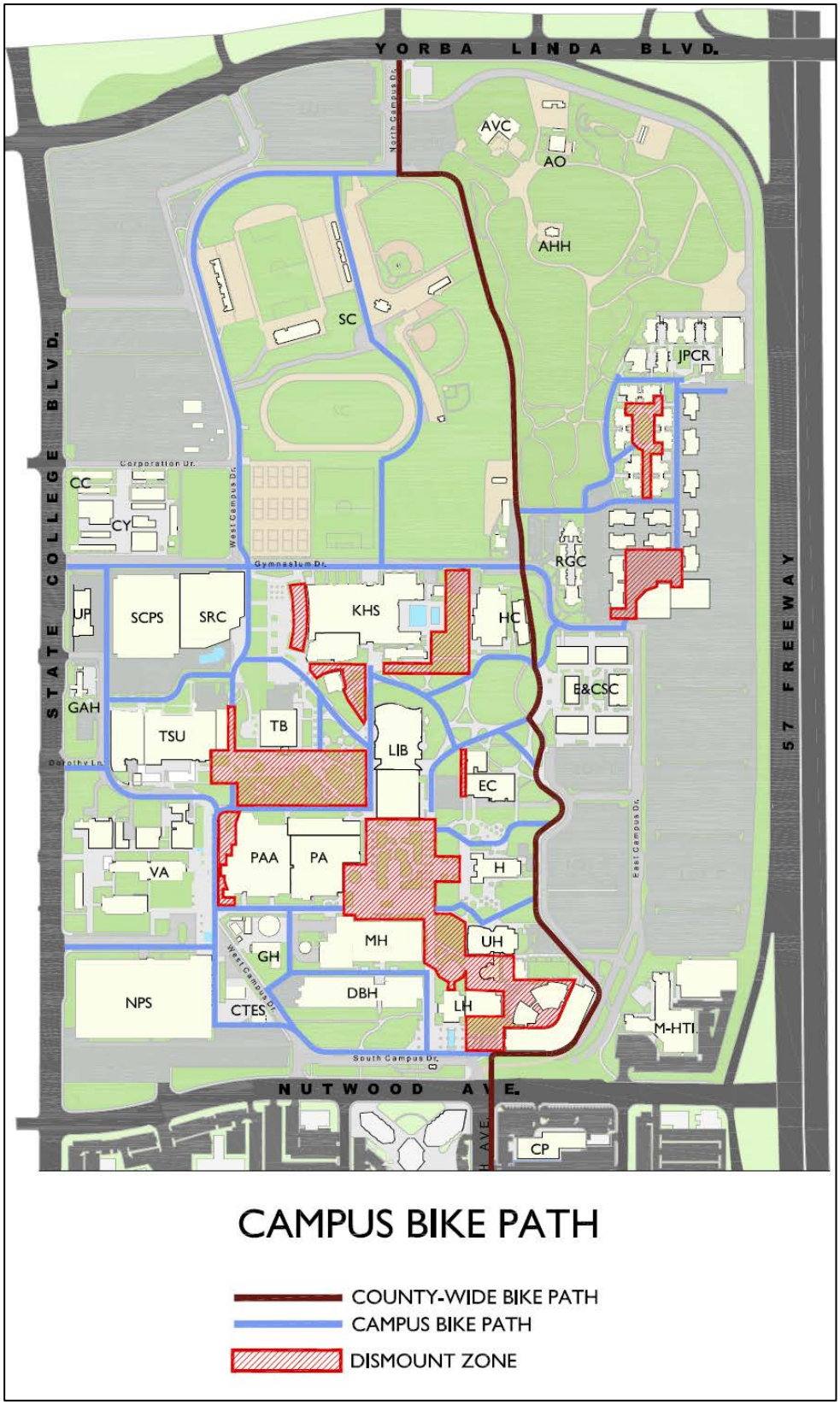
d. Bicycle and Pedestrian Network

CSUF has an integrated network of bicycle and pedestrian facilities throughout the campus and actively promotes these modes of alternative transportation. Campus-wide programs are in place to support bicycle safety for the CSUF community, such as bicycle safety training programs, free bicycle tune-up events, and on-campus bicycle repair stations (CSUF 2019c). Existing campus bicycle and pedestrian facilities are described below.

BICYCLE INFRASTRUCTURE AND FACILITIES

A County-wide bicycle path traverses through the CSUF campus, starting from North Campus Drive and running south to Commonwealth Avenue. The campus contains numerous paved bicycle paths that connect students, faculty, and staff to the academic core, recreational facilities, parking areas, the Fullerton Arboretum, and other areas of the CSUF campus. All bicycle paths are shared with pedestrians. Figure 4.11-2 shows existing bicycle paths on the CSUF campus.

Figure 4.11-2 CSUF Bicycle Paths



Source: CSUF 2013

The TIS (Appendix M) provides descriptions of bicycle facility classifications. Existing and proposed bicycle and pedestrian facilities in the vicinity of the CSUF campus are described below based on field observations collected for the TIS and the City's Bicycle Master Plan (City of Fullerton 2012a):

- Existing Class II bike facilities provide connections to the campus area on Associated Road, Dorothy Lane, and Commonwealth Avenue.
- Nutwood Avenue does not have existing bicycle facilities. Class III facilities are planned on Yorba Linda Boulevard from North State College Boulevard to Placentia Avenue.
- Yorba Linda Boulevard does not have existing bicycle facilities. Class III facilities are planned on Yorba Linda Boulevard from North State College Boulevard to Associated Road.
- North State College Boulevard does not have existing bicycle facilities and are not proposed in the future.
- A new bicycle overcrossing is proposed on SR 57; it would provide a Class I path and would connect the campus to Placentia Avenue to provide easier access to the City of Placentia.

Bicycle racks are located throughout the CSUF campus close to academic and student resource buildings, athletic facilities, student housing, and other facilities frequented by students, faculty, and staff. CSUF has campus-wide bicycle storage policies that specify bicycles may only be parked and/or secured in designated bicycle racks, stored in private offices without obstructing entryways, and freight elevators that may be used to move bicycles to higher floors in select buildings (CSUF 2012). Bicycles may not be stored in student housing rooms.

e. Pedestrian Circulation

Pedestrian connectivity is important to the CSUF campus for students, faculty, and staff who access school facilities. Once on campus, walking is the primary mode of travel for the CSUF community within the academic core, and within and between school facilities. The pedestrian system consists of a network of walkways that connect parking areas with the academic core, athletic facilities, student services, and the Fullerton Arboretum.

Pedestrian facilities include sidewalks, crosswalks, and pedestrian signals. The three major roads that bound the CSUF campus contain sidewalks on both sides. Pedestrian crosswalks are in place at signalized intersections in the TIS area that lead onto campus sidewalks and walkways.

Within CSUF, on-site circulation is accomplished primarily by foot along key paved pedestrian spines of West Campus Drive (north-south) and Gymnasium Campus Drive (east-west) in the northwest quadrant of campus, which connect to numerous on-campus bicycle paths and walkways in the southern and eastern parts of campus.

f. CSUF Transportation Demand Management (TDM) Program

CSUF manages a principal TDM program with several sub-measures. Use of the ridesharing and carpooling programs, as well as the aforementioned bicycle, transit, and rail modes, are encouraged by CSUF through the Faculty/Staff Commuter Choice Program which provides various reimbursements and monetary incentives for participants (CSUF 2018). Metrolink and Shuttle services are included in the TDM and are discussed above under *Transit System*.

Rideshare and Carshare Programs

In an effort to provide a more comprehensive commute program for students, faculty, and staff, CSUF incorporates carsharing and ridesharing programs and encourages carpooling and vanpooling.

Zipcar CarShare is a membership-based car rental program providing self-service access to vehicles on campus, 24 hours a day, seven days a week. Zipcar has been made available on campus to students, faculty, and staff since August 2019. The car sharing program allows members to utilize Zipcar vehicles on an hourly or daily basis and is aimed at reducing individual car ownership.

The CSUF campus also has six designated ridesharing drop-off/pick-up zones for Uber and Lyft services. These ridesharing loading zones are conveniently located near CSUF buildings and facilities that are frequented by students, faculty, and staff, such as the on-campus residence halls, along West Campus Drive near the Titan Sports Complex and parking areas, and off Arts Drive near the Clayes Performing Arts Center and campus commons to name a few (CSUF 2019a).

Commuter Carpool and Vanpool Program

CSUF facilitates a carpool program to CSUF students, faculty, and staff. A CSUF Titans Carpoolers Group is designated in Waze Carpool[1] to allow participants to easily and efficiently find carpools. Once carpools created, participants can apply for a carpool permit that allows carpools to park in designated on-campus lots (CSUF 2019b). CSUF also offers a vanpool program to faculty and staff, which includes a monthly OCTA subsidy and vehicle reimbursement.

g. Campus Master Plan Measures

CSUF's site access and vehicular circulation plan is would not change with the updated Campus Master Plan, as discussed in Section 2.5.9, *Project Description*. Current circulation within the campus would remain in its current state, with the exception of expanding bicycle access on existing campus pathways. Yorba Linda Boulevard, North State College Boulevard and Nutwood Avenue would remain the primary arterials and access points around campus. No new access points from these arterials would be constructed as part of the updated Campus Master Plan.

TDM Measures

The Campus Master Plan acknowledges the importance of implementing TDM measures to reduce overall commute times, congestion, VMT, and GHG emissions. The Campus Master Plan has separated TDM measures into three phases; Short Term, Medium Term, and Long Term. All of the TDM measures identified are strategically categorized under certain timetables based on their complexity and necessary funding. The Campus Master Plan TDM measures and their respective phases include:

Short Term

- First Year Parking Ban
- Dynamic Shared Ride Matching
- Increased Car Share Spaces and Incentives
- Enhanced Guaranteed Ride

[1] Waze Carpool is an online- and smartphone-based carpool matching program for those who need rides and those who can provide rides. https://www.waze.com/carpool/referral?a=redeem_referral&referral_token=tk.28084122-6d58-4e8f-8d5d-6ad32286d5ae

- Bike Theft Reduction Program

Medium Term

- Maintain Existing Transit Pass Subsidies
- Fund and Implement Enhanced OCTA Circulator Bus Concept
- Pilot Mobility Hub Concept
- Pilot Closure of Section of Gymnasium Drive
- Improved Multi-modal Wayfinding System
- Expand Bike Benefit to Students
- Variable Parking Pricing

Long Term

- Champion Physical Multi-Modal Improvements Around and To and From Campus with Partner Agencies
- Improve Nutwood Avenue Pedestrian Crossings and Implement Traffic Calming Measures
- Permanent Mobility Hub
- Permanent Pedestrian Street Upgrade to Gymnasium Drive

4.11.2 Regulatory Setting

As a state entity, the California State University, of which CSUF is a part, is not subject to regional or local transportation plans and policies of cities or counties or other local jurisdictions. Although CSUF is not subject to local plans of cities and counties, such plans and policies are of interest or concern because it is CSUF policy to seek consistency with regional and local plans and policies, where feasible. Information pertinent to visual resources from the City and County general plans also follows, for informational purposes.

Federal

There are no federal regulations for traffic and circulation that would be applicable to the proposed project or the project area.

State

State Senate Bill 743

SB 743 was signed into law by Governor Brown in 2013 and tasked the State Office of Planning and Research (OPR) with establishing new criteria for determining the significance of transportation impacts CEQA. SB 743 requires the new criteria to “promote the reduction of greenhouse gas emissions, the development of multimodal transportation networks, and a diversity of land uses.” It also states that alternative measures of transportation impacts may include “vehicle miles traveled, vehicle miles traveled per capita, automobile trip generation rates, or automobile trips generated.”

On September 27, 2013, California Governor Jerry Brown signed SB 743 into law and started a process that changes transportation impact analysis as part of CEQA compliance. SB 743 requires the Governor’s OPR to identify new metrics for identifying and mitigation transportation impacts within CEQA. In January 2018, OPR transmitted its proposed CEQA Guidelines implementing SB 743

to the California Natural Resources Agency for adoption, and in January 2019 the Natural Resources Agency finalized updates to the CEQA Guidelines, which incorporated SB 743 modifications, and are now in effect SB 743 changed the way that public agencies evaluate the transportation impacts of projects under CEQA, recognizing that roadway congestion, while an inconvenience to drivers, is not itself an environmental impact (Public Resource Code, Section 21099 (b)(2)). In addition to new exemptions for projects consistent with specific plans, the CEQA Guidelines replaced congestion-based metrics, such as auto delay and level of service (LOS), with VMT as the basis for determining significant impacts, unless the CEQA Guidelines provide specific exceptions.

California State University Transportation Impact Study Manual

The California State University Transportation Impact Study Manual (TISM) provides guidance in the preparation of transportation impact assessments for the projects on CSU campuses, including all lands owned by CSU, consistent with CEQA Guidelines (CSU 2019). The Campus Master Plan TIS (Appendix M) was prepared pursuant to the TISM. Significance criteria specified in the TISM, under which the project is required to be analyzed, are included in Section 4.16.2.1, Thresholds of Significance. The TISM also includes potential mitigation measures to be considered for a project under each impact category, if project impacts are determined to be significant.

California State University Transportation Demand Management Manual

The California State University Transportation Demand Management (TDM) Manual contains a set of goals, criteria, and best practices to guide the provision of programs, tools, and strategies that encourage students, faculty and staff to commute to and from campus via bus/rail transit, carpools, vanpools, bicycling and walking to lessen reliance upon single-occupant vehicle (SOV) travel and reduce vehicle trips to campuses (CSU 2012). The overall purpose of the manual is to help provide university staff and those creating campus TDM plans, a means to create and implement effective programs.

California State University Administrative Manual (SUAM)

The California State University Administrative Manual (SUAM) contains policies that establish oversight, guidelines, and procedures for campus development and planning, maintenance, and improvements across the 23 CSU campuses and the Office of the Chancellor (CSU 2018).

The following SUAM policies are applicable to all projects under the Campus Master Plan, and are relevant to potential on-campus circulation realignments:

- **Section X.9203.01(1) – State Fire Marshal (SFM):** All CSU projects are required to be approved by the California State Fire Marshal (Health & Safety Code Section 13108(c)) (Health and Safety Code, Section 13143; Title 19, California Code of Regulations, Section 3.28(b)). Typically, projects require a plan review and approval followed by periodic field inspections and concluding with issuance of a certificate of occupancy or, on renovation/repair works, a field issued notice of SFM acceptance. At their discretion, on small minor projects, SFM field inspectors may review and issue plan approvals on site in lieu of a submittal to the SFM central office in Monrovia, CA.
- **Section XI.9232(1) – State Fire Marshal (SFM):** University projects are required to be reviewed by the California State Fire Marshal (Health & Safety Code Section 13108(c)) (Health and Safety Code, Section 13143; Title 19, California Code of Regulations, Section 3.28(b)). Typically, a SFM submittal is required. At their discretion, on small minor projects, deputy SFM inspectors may review and issue field plan approvals.

Local

As previously stated, VMT replaces congestion (i.e., LOS) in the CEQA Guidelines as the metric for determining automobile transportation impacts. Therefore, policies and objectives within local plans (e.g., The Fullerton Plan) pertaining to LOS are not described herein or addressed within this section.

CSUF is an entity of the CSU, which is a constitutionally created state agency, and is therefore not subject to local government planning and land use plans, policies, or regulations. CSUF may consider, for informational purposes, aspects of local plans and policies for the communities surrounding the campus when it is appropriate. The Campus Master Plan would be subject to state agency planning documents described herein but would not be bound by local or regional planning regulations or documents such as The Fullerton Plan or municipal code. However, any improvements to city streets or transportation facilities that are required as part of the Campus Master Plan would be subject to these planning regulations.

The Fullerton Plan

The following goals and policies are included in the City's General Plan, The Fullerton Plan (City of Fullerton 2012b), and would be applicable to the Campus Master Plan:

Goal 5 A balanced system promoting transportation alternatives that enable mobility and an enhanced quality of life.

P5.12. Multi-Modal Traffic Analysis. Support programs, policies, and regulations to analyze and evaluate urban streets using an integrated approach from the points of view of automobile drivers, transit passengers, bicyclists and pedestrians rather than auto-centric thresholds which conflict with other policies of The Fullerton Plan including better environments for walking and bicycling, safer streets, increased transit use, cost-effective infrastructure investments, reduced greenhouse gas emissions, and the preservation of open space.

P5.14. Fair Share of Improvements. Support policies and regulations which require new development to pay a fair share of needed transportation improvements based on the project's impacts to the multi-modal transportation network.

Goal 6 A bicycle-friendly city where bicycling is safe and convenient alternative to motorized transportation and a recreational opportunity for people of all ages and abilities.

P6.5. Bicycling Safety and Convenience. Support projects, programs, policies, and regulations that make bicycling safer and more convenient for all types of bicyclists.

P6.7. Development Projects. Support projects, programs, policies, and regulations to develop a multi-tiered network of bicycle options that consider traffic volumes, rider experience; and which recognized that all streets should be safe for bicycling.

P6.12. Bicycle Parking and Facilities. Support projects, programs, policies, and regulations to provide convenient bicycle parking and other bicycle facilities in existing and potential high demand locations within the City, such as educational institutions, parks, business districts, transit stops, retail, commercial and employment centers.

Fullerton Bicycle Master Plan

The Fullerton Bicycle Master Plan (Bicycle Element) was adopted as part of The Fullerton Plan update in 2012. The Bicycle Element is intended to meet the needs and concerns of residents,

harmonize bikeway and recreational trail systems for users, and serve as a guide for continued improvements to the City's bicycle infrastructure. The Bicycle Element notes existing city-wide bicycle facilities and identifies areas where additional bicycle facilities and amenities may be needed to improve the bikeway network and/or user experience. Goal 6 and policies P6.5, P6.7, and P6.12, listed above under the Fullerton Plan, are also included in the Bicycle Element (City of Fullerton 2012a).

4.11.3 Impact Analysis

a. Thresholds of Significance

To determine whether a project would result in a significant transportation impacts, Appendix G of the CEQA Guidelines and the CSU TISM thresholds (see Table 4.11-2) requires consideration of whether a project would:

1. Conflict with a program, plan, ordinance or policy addressing the circulation system, including transit, roadway, bicycle and pedestrian facilities;
2. Conflict or be inconsistent with CEQA Guidelines Section 15064.3, would result in a VMT impact as described in Table 14.6.2; subdivision (b);
3. Substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment);
4. Result in inadequate emergency access.

Table 4.11-2 VMT Significance Thresholds

Impact Categories	CSU Significance Thresholds
Project Level Impacts	Mixed-Use: VMT/Service Population[1] exceeds threshold of 15 percent below existing regional, sub-regional, or citywide VMT/Service Population.
Cumulative Impacts	Mixed-Use: VMT/Service Population[1] under the "with project" condition exceeds the citywide, regional, or sub-regional VMT/Service Population identified under the RTP/SCS condition.[2]

[1] Service population is typically defined as population plus employment. For campuses, service population is defined as population plus employment plus students. The transportation consultant shall not double count resident students twice in this evaluation (i.e., shall not count students that also live on campus) (CSU 2019).

[2] According to the 2016 SCAG RTP/SCS, the plan has a target performance result of reducing VMT by 7.4 percent for the region by 2040 between base year (2012) to the 2040 baseline year, which represents a future in 2040 in which only the following have been implemented: transportation projects currently under construction or undergoing right-of-way acquisition; those transportation programs and projects programmed and committed to in the 2015 Federal Transportation Improvement Program (FTIP); and/or transportation projects that have already received environmental clearance. The plan has a target performance result of reducing VMT by 10.2 percent in the event that all transportation investments and strategies detailed in the 2016 RTP/SCS are fully realized (SCAG 2016).

Source: Fehr & Peers 2019 (Appendix M)

b. Methodology

The project-specific analysis, herein, is based on the TIS prepared by Fehr & Peers (Appendix M). The updated CEQA Guidelines and SB 743 changed the criteria for determining what constitutes a significant transportation-related environmental impact to rely upon quantification of VMT instead of level of service. CEQA Guidelines Section 15064.3(c) states that the requirement to use the VMT criteria only applies on and after July 1, 2020. A lead agency may elect to apply the criteria in

Section 15064.3(b) sooner, and CSU has adopted these criteria as of the date of this report and as included in the TISM.

The project-specific TIS employed a combination of quantitative and qualitative evaluations of the roadway, bicycle, pedestrian, and transit components of the transportation system. All analysis presumes that future background travel conditions remain relatively constant and do not account for potential changes associated with disruptive trends such as increased use of transportation networking companies, which include Uber and Lyft, internet shopping, other internet related activities, automated vehicles, and micro-transit services.

The TIS assumes the Campus Master Plan would be fully implemented by the year 2040, and includes analysis of potential roadway segment forecasts within the project study area and VMT assessments for the following scenarios:

- Baseline (2019) No Project
- Baseline (2019) With Project
- Future Year (2040) No Project
- Future Year (2040) With Project

Table 4.11-3, below, contains the land use inputs associated with each analysis scenario.

Table 4.11-3 Campus Master Plan Students, Employees, and Housing Growth Forecasts

Scenario	Students	Employees	Students in University Housing	Students Per Employee	Share of Students Living in University Housing
2019 Baseline No Project	25,000	5,594	2,829	4.46	11.3%
2019 Baseline Plus 2019 Master Plan	32,000	6,594	5,829	4.85	18.2%
2040 Cumulative No Project	25,000	5,594	2,829	4.46	11.3%
2040 Cumulative Plus 2019 Master Plan	32,000	6,594	5,829	4.85	18.2%

Source: Fehr & Peers 2019 (Appendix M)

Existing Traffic Volumes

The Orange County Regional Travel model (OCTAM) was used to forecast roadway segment volumes and estimate existing and future VMT. The OCTAM was the most appropriate travel model available to calculate VMT because it is the only model that is calibrated to the conditions of Orange County, thus making it the most capable of producing a project level VMT assessment. This model is consistent with the 2016 SCAG RTP/SCS; it has a base year of 2019 and a forecast year of 2040. The Campus Master Plan does not propose any substantive changes to the campus transportation network. Therefore, no changes were made to the baseline or cumulative networks in the TIS model, beyond those programmed in the RTP/SCS.

Despite using the regional traffic model, the City's VMT threshold was used for this analysis. In order to effectively capture the projects effect on overall VMT, a scale must be set that's large enough to

capture those effects, but small enough to isolate the project. Thirteen street segments were identified as locations at which to evaluate existing and future traffic operating conditions. A portion of project-related traffic would pass through each of these street segments, and their analysis reveals the expected relative impacts of the Campus Master Plan. Existing daily traffic volumes for the locations evaluated in the TIS (Appendix M) were obtained from a 48-hour roadway segment count collected between September 24 – September 25, 2019. Roadway segment counts were collected on all study segments on a weekday while schools were in session.

The TIS contains the detailed peak hour count sheets for the study segments evaluated. Table 4.11-4 provides a summary of daily traffic volumes for each scenario evaluated in the TIS (Appendix M).

Table 4.11-4 Daily Traffic Volumes

Segment	Existing (2019) Count	Existing (2019) Plus Project	Cumulative (2040)	Cumulative (2040) Plus Project
South State College Boulevard from SR 91 to Fender Avenue	22,952	25,030	24,830	25,850
South State College Boulevard from Fender Ave to Nutwood Avenue	24,321	26,640	25,470	26,650
North State College Boulevard from Nutwood Avenue to Yorba Linda Boulevard	30,625	30,870	34,960	34,970
North State College Boulevard from Yorba Linda Boulevard to SR 90	25,097	25,220	27,730	28,100
Nutwood Avenue from South State College Boulevard to SR 57	21,796	25,540	22,130	24,770
Nutwood Avenue/Primrose Avenue from SR 57 to Bradford Avenue	1,494	1,630	3,390	3,400
Yorba Linda Boulevard from North State College Boulevard to Placentia Avenue	38,598	41,890	40,050	41,730
E. Chapman Avenue from North State College Boulevard to SR 57	34,801	34,810	36,850	36,860
E. Chapman Avenue from SR 57 to Bradford Avenue	24,067	24,640	28,030	28,210
Associated Road from SR 90 to Bastanchury Road	11,929	12,370	13,270	13,430
Associated Road from Bastanchury Road to Yorba Linda Boulevard	23,795	26,120	24,870	25,650
Commonwealth Avenue from Nutwood Avenue to Chapman Avenue	10,190	11,280	11,980	13,310
Commonwealth Avenue from Chapman Avenue to South State College Boulevard	9,287	9,430	12,400	12,410

Source: Fehr & Peers 2019 (Appendix M)

Existing Vehicle Miles Traveled

The OCTAM model was used to estimate the existing VMT per service population for the CSUF campus and the City of Fullerton. Students were included in the service population based on guidance provided in the TISM. Students who reside on campus and are included in the Campus and City populations were not counted as both students and residents.

VMT was estimated using the Origin/Destination (OD) method. This was completed by multiplying the OD trip tables and the final assignment skim matrices.[2] The OD tables provided the number of trips between each Traffic Analysis Zone (TAZ), and the skim matrices provided the distance on the roadway network, or trip length, between each TAZ. The full length of all trips with an origin or destination in the TAZ representing the CSUF campus were used to estimate the campus VMT, and likewise the full length of all trips with an origin or destination in any of the TAZs representing the City of Fullerton were used to estimate the City VMT.

As shown in Table 4.11-5, the existing CSUF campus produces a lower VMT per service population (18.72 VMT) than the City of Fullerton (22.24 VMT). This is likely due to the reduction in trip and trip lengths associated with students and faculty who live on the CSUF campus and the CSUF community's use of available transit services used to access the campus.

c. Issues Not Discussed Further

Level of Service

In accordance with amendments to the 2018 CEQA Guidelines, VMT is the most appropriate measure of transportation impacts, supplanting vehicular LOS (i.e., delay). Evaluation of LOS is not discussed further.

Emergency Access

The Campus Master Plan would require that site design is compliant with all applicable emergency access requirements, including Uniform Fire Code Requirements. Therefore, emergency access for future projects under the Campus Master Plan would be subject to review by all appropriate responsible emergency service agencies. All CSU projects are required to follow the SAUM which requires the SFM to review all projects prior to implementation. Thus, future projects under the Campus Master Plan would be designed to meet applicable emergency access and design standards, and adequate emergency access would be provided.

d. Impact Analysis

Threshold 1:	Would the project conflict with a program, plan, ordinance or policy addressing the circulation system, including transit, roadway, bicycle and pedestrian facilities?

Impact T-1 DEVELOPMENT UNDER THE CAMPUS MASTER PLAN WOULD BE CONSISTENT WITH APPLICABLE CSU PROGRAMS, PLANS, AND POLICIES. IMPLEMENTATION OF THE CAMPUS MASTER PLAN WOULD NOT RESULT IN MAJOR CHANGES TO THE DESIGN, LOCATION, OR ACCESS TO EXISTING TRANSIT, CAMPUS CIRCULATION, OR BICYCLE AND PEDESTRIAN FACILITIES. IMPACTS WOULD BE LESS THAN SIGNIFICANT. NO MITIGATION MEASURES ARE REQUIRED.

Vehicular access to the CSUF campus would continue to be provided from Yorba Linda Boulevard, North State College Boulevard, and Nutwood Avenue under the Campus Master Plan. Proposed development under the Campus Master Plan would be infill development, consistent with the existing land use context. The Campus Master Plan does not propose any substantive changes to the existing campus transportation network. Implementation of specific projects under the Campus

[2] Skim Matrices provide impedances between zones and are used for transportation data analysis. Impedances include travel time, travel distance, and travel costs.

Master Plan may result in updates or minor realignments to existing on-campus circulation and bicycle and pedestrian facilities. However, subsequent realignments and improvements to existing on-campus circulation, included with future Campus Master Plan projects, would adhere to applicable City of Fullerton, CSUF, and CSU systemwide policies and review procedures prior to implementation. Therefore, the Campus Master Plan would not conflict with existing and applicable programs, plans, ordinance, or policies addressing on- and off-campus circulation systems, and the project would have a less than significant impact.

The TIS analyzed project impacts to bicycle and pedestrian facilities, and transit service and facilities (Appendix M). Project impacts are summarized in the following discussion.

Bicycle and Pedestrian Facilities

The potential impact to pedestrian bicycle facilities was evaluated based on whether the Campus Master Plan would physically disrupt an existing facility or interfere with the implementation of a planned facility. In addition, the Campus Master Plan was evaluated to determine if it would create potential conflicts with applicable policies, plans, or programs (Section 4.11.1, *Regulatory Setting*) supporting bicycle use or pedestrian travel such that the conflict could reduce bicycle trips or increase conflicts between pedestrians, bicyclists or other modes.

The Campus Master Plan would implement several measures to help expand and simplify bicycle and pedestrian access through campus. These measures include:

- Increase level of separation between pedestrians and vehicle traffic.
- Preserve and expand the core pedestrian zone in the heart of campus.
- Close a non-critical segment of Gymnasium Drive in the campus core to vehicles to improve walkability and safety.
- Improve the hierarchy of internal circulation, including walkway hierarchy and consistency, and improvement of intuitive design of all paths, including bicycle route.
- Better organize and mark walking paths.
- Prioritize physical improvements to conflict points for vehicles, people walking, and people biking, including Campus Drive and Gymnasium Drive, and the pathway across Gymnasium drive between the academic core and student housing area.
- Clarify overall circulation rules, for where bicycling, skateboarding, and scooters are allowed.
- Improve overall quality of pedestrian and bicycling signage and wayfinding. Create overall wayfinding system that emphasizes walking, biking, and transit.
- Improve the markings, signage, and organization of bicycle routes. Reduce confusion about what travel modes are allowed, and where.
- Where bicycle access terminates to the center of campus, provide bicycle dismount and parking zones – not just “Do Not Enter” signs.
- Formalize and establish a more legible circulation system that prioritizes pedestrian travel across campus – important for identity, placemaking, and mobility.

All measures included in the Campus Master Plan align with the university’s goal as well as the City of Fullerton to help expand bicycle infrastructure throughout campus and the City itself. The City acknowledges in its Bicycle Master Plan that universities such as CSUF have high potential to help increase the City’s overall pedestrian and bicycle ridership. The Campus Master Plan would help

expand bicycle infrastructure both within the campus itself as well as creating connections to other parts of the City and the surrounding region.

Implementation of the Campus Master Plan would generate new bicycle and pedestrian trips commensurate with campus growth among the student, faculty and staff, and on-campus housing. Growth anticipated from the Campus Master Plan entails an increase of approximately 4,000 CSUF commuter students, 3,000 resident students, and 1,000 employees, as modeled in the TIS (Appendix M). Due to the highly walkable nature of the CSUF campus, every additional student, employee, and resident added to the campus population would generate a variety of on-campus pedestrian trips throughout a typical school day (e.g., walking trips to class, meals, social activities, etc.).

The increase in on-campus housing would enable a greater percentage of students to walk to class or work compared to existing conditions. Moreover, increases in transit and vehicle commute trips would generate additional pedestrian trips between campus destinations and on-campus parking and transit facilities, as all transit and vehicle trips begin and end with a pedestrian trip.

Implementation of the Campus Master Plan would not result in any major changes or render inaccessible existing bicycle or pedestrian facilities. Therefore, the project would have a less than significant impact.

Transit Services

The potential impact to transit service or facilities was evaluated based on whether the Campus Master Plan would physically disrupt an existing facility/service or interfere with the implementation of a planned facility/service. Implementation of the Campus Master Plan would not disrupt service or inhibit access to existing transit services.

Implementation of the Campus Master Plan would generate new transit trips commensurate with campus growth among the student, faculty and staff, and on-campus housing. Proposed development under the Campus Master Plan would not modify existing transit stops or affect transit schedules. The Campus Master Plan proposes three mobility transit hubs at the north, west, and south portions of campus that would allow for transit and shuttle services to access campus more efficiently. The mobility hubs would have designated entry/exit lanes for transit vehicles in order to reduce onboarding and offboarding times and increase overall access to campus. Each mobility hub would be equipped with bicycle locking stations and other amenities for alternative modes of transportation to help encourage overall ridership of transit. Overall transit ridership would increase based on anticipated growth under the Campus Master Plan. However, such ridership increase is encouraged through existing CSUF transportation demand management programs (such as discounted student and faculty/staff passes, increased campus shuttle service, ridesharing, and commuter carpooling and vanpooling). Therefore, the project would have a less than significant impact.

Mitigation Measures

No mitigation required.

Significance After Mitigation

Impacts would be less than significant without mitigation.

Threshold 2:	Would the project conflict or be inconsistent with CEQA Guidelines Section 15064.3, subdivision (b), such that it would result in project-generated VMT per service population for the campus as a whole that exceeds 18.90 (i.e., 15 percent below citywide VMT per service population [22.24])?

Impact T-2 PROJECT-GENERATED VMT PER SERVICE POPULATION WOULD BE BELOW THE CSU TSM THRESHOLD. IMPACTS WOULD BE LESS THAN SIGNIFICANT. NO MITIGATION MEASURES ARE REQUIRED.

TDM strategies are often used in conjunction with one another to achieve the highest reduction of VMT. The CAPCOA suggests a variety of measures that have proven to be efficient in reducing overall VMT. These measures include but are not limited to rideshare, subsidized transit passes, vanpool, and shuttles; all of which CSUF would continue to implement. According to CAPCOA, vanpool programs and shuttle programs have a combined VMT reduction of approximately 0.3 percent to 13.4 percent. Additionally, subsidized transit passes have a VMT reduction of approximately 0.3 percent to 20.0 percent along with ridesharing having a VMT reduction of approximately 1.0 percent to 6.2 percent.

To evaluate project VMT impacts, the OCTAM model was modified to include the project under Existing Plus Project and Cumulative Plus Project conditions. The addition of 4,000 commuter students, 3,000 resident students, and 1,000 employees were isolated to assess the project-generated VMT per service population.

The City of Fullerton VMT per service population was calculated for the existing condition using the OCTAM model to establish the citywide threshold. The existing and expanded campus both operate more efficiently with a lower VMT per service population than the existing citywide average. The project-generated VMT per service population from the campus expansion is lower than the existing campus VMT per service population. This is likely due to the VMT efficiency gained from having a higher proportion of students living on campus under Campus Master Plan buildout than compared to existing conditions.

VMT was estimated using the OD method as previously described. The full length of all trips with an origin or destination in the TAZ representing the expansion of the CSUF campus were used to estimate the project generated VMT.

Table 4.11-5 Existing Plus Project Vehicle Miles Traveled

Study Area	VMT Per Service Population
City of Fullerton (Existing)	22.24
CSUF Campus (Existing)	18.72
CSUF Campus Expansion (Project)[1]	14.38
CSU TISM Project Level Threshold	18.90
Threshold Exceeded?	**No**

[1] Campus growth only.
Source: Fehr & Peers 2019 (Appendix M)

As shown in Table 4.11-5, the project-generated VMT per service population would be below the CSU TISM threshold of 15 percent below citywide VMT per service population. Therefore, the project would have a less than significant impact on VMT per service population under the Existing Plus Project scenario.

Mitigation Measures

No mitigation required.

Significance After Mitigation

Impacts would be less than significant without mitigation.

Threshold 3: Would the project substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment?

Impact T-3 DEVELOPMENT UNDER THE CAMPUS MASTER PLAN WOULD BE CONSTRUCTED IN SUCH A WAY THAT CHANGES WOULD REMAIN CONSISTENT TO SURROUNDING GEOMETRIC DESIGN FEATURES AND ANY REDESIGN OR CONSTRUCTION OF ON-CAMPUS CIRCULATION PATHS WOULD BE DESIGNED AND CONSTRUCTED TO MEET APPLICABLE CAMPUS MASTER PLAN DESIGN STANDARDS. IMPACTS WOULD BE LESS THAN SIGNIFICANT. NO MITIGATION MEASURES ARE REQUIRED.

Vehicular access to the CSUF campus would continue to be provided from Yorba Linda Boulevard, North State College Boulevard, and Nutwood Avenue. The TIS analyzed potential transportation-related hazard impacts based on the inclusion of any specific design components that would create a hazardous condition or change land use relative to the land use context and mix of travel such that the volume, mix, or speed of traffic was not anticipated as part of the original transportation network design (Appendix M).

Proposed development under the Campus Master Plan would be infill development, consistent with the existing land use context. As such, implementation of the Campus Master Plan would generate a mix of traffic similar to existing conditions (primarily commuter traffic from students, faculty, and staff). With more students and employees, the volume of traffic across all modes would increase which may result in slower travel speeds for some modes.

However, these changes would not cause conditions that warranted modification of the existing network as part of the Campus Master Plan. Any new sidewalk or paths would be designed and constructed to applicable Campus Master Plan design standards to minimize hazardous conditions and would undergo project-specific environmental reviewed for project-scale hazards when the project advances through the project development process.

Therefore, implementation of the Campus Master Plan would not substantially increase hazards due to geometric design features or incompatible uses. The project would have a less than significant impact.

Mitigation Measures

No mitigation required.

Significance After Mitigation

Impacts would be less than significant without mitigation.

Threshold 4: Would the project result in inadequate emergency access?

Impact T-4 DEVELOPMENT UNDER THE CAMPUS MASTER PLAN WOULD NOT INCLUDE MAJOR CHANGES TO EXISTING ACCESS POINTS OR ON-CAMPUS CIRCULATION PATHS. ALL PROJECTS UNDER THE CAMPUS MASTER PLAN WOULD ADHERE TO CSU POLICY AND UNDERGO REVIEW AND APPROVAL BY THE STATE FIRE MARSHAL PRIOR TO IMPLEMENTATION AND USE. IMPACTS WOULD BE LESS THAN SIGNIFICANT. NO MITIGATION MEASURES ARE REQUIRED.

Proposed development under the Campus Master Plan would be infill development, consistent with the existing land use context. The Campus Master Plan does not include major changes to existing access points along Yorba Linda Boulevard, North State College Boulevard, or Nutwood Avenue, nor any major changes to on-campus walkways, bicycle paths, and circulation roads.

Project-level details of planned development are not included in the Campus Master Plan at this time. As discussed above, any new sidewalk or on-campus circulation would be designed and constructed to applicable Campus Master Plan design standards to minimize hazardous conditions and would undergo project-specific environmental reviewed for project-scale hazards when the project advances through the project development process. As part of project-level environmental review, input from emergency services would be solicited to ensure that emergency access meets the standards of service providers.

As stated in Section 4.16.1, *Regulatory Setting*, under SUAM Sections X.9203.01(1) and XI.9232(1), all CSU projects are required to be reviewed and approved by the SFM prior to implementation and issuance of a certificate occupancy and/or notice of SFM acceptance. Potential project impacts on emergency access would be identified and resolved during the SFM's review of project plans. As such, all projects implemented under the Campus Master Plan would undergo SFM review.

Therefore, implementation of the Campus Master Plan would not result in inadequate emergency access to the CSUF campus, and the project would have a less than significant impact.

Mitigation Measures

No mitigation required.

Significance After Mitigation

Impacts would be less than significant without mitigation.

4.12 Utilities and Service Systems

This section analyzes the adequacy of existing and planned infrastructure related to water supplies, wastewater conveyance, treatment, and disposal, solid waste disposal, stormwater management, and telecommunications facilities to accommodate the demands and generation associated with implementation of the Campus Master Plan. The discussion and analysis contained herein is informed by outputs from the CalEEMod prepared for the Campus Master Plan, as well as publicly available data and reports from the City of Fullerton, CSUF, Orange County Flood Control District (OCFCD), and Orange County Sanitation District (OCSD).

Impacts related to electricity and natural gas infrastructure and supplies are discussed in greater detail in Section 4.5, *Energy*.

4.12.1 Setting

a. Existing Setting

The following section describes the existing setting with respect to water, wastewater, stormwater, solid waste, and telecommunications facilities.

Potable Water Supply

The City of Fullerton provides potable water service to residents and businesses in Fullerton. The City of Fullerton Public Works Department is responsible for the water system, including production, conservation, and water quality. The City receives its water from two main sources: 70 percent from local well water from the Coastal Plain of OCGB, which is managed by the OCWD, and 30 percent is comprised of imported water from the Metropolitan Water District of Southern California (MWD) (City of Fullerton 2017). The City has eleven wells located in the southern area of Fullerton, six of which are located at the main plant in Anaheim. The City also has six water connections to imported water from MWD as well as six emergency connections with other utilities.

In the 2015 Urban Water Management Plan (UWMP), the City estimates the population will increase to about 160,545 by 2040, or 14 percent above 2015 levels (City of Fullerton 2017). The City's actual 2015 water demand was 27,244 acre-feet per year (AFY), which is met through locally pumped groundwater and imported MWD water; but this water demand is estimated to increase to 28,891 AFY in 2040 (City of Fullerton 2017). By 2020, the 2015 UWMP projected water demand to be approximately 26,699 AFY with the implementation of water conservation measures.

The City's water supply reliability is determined based upon groundwater resources and from Colorado River and the State Water Project for imported water. Imported water from the Colorado River and State Water Project are currently impacted by climate change and increased demands; resulting in the need for the City to find solutions for years when supplies from imported water are lower than anticipated. The City's groundwater supply from the OCGB is managed by OCWD to protect the long-term sustainability of the OCGB. The City's water supply in 2020 is estimated to be 26,699 AFY and would increase to 28,891 in 2040, matching projected demand (City of Fullerton 2017).

As shown in Table 4.12-1, the City would meet its normal year water demand through 2040 but would have no surplus of supplies. These estimates are based on the City's estimated water supply from groundwater and imported water and demand from the population growth and required

water conservation measures. Table 4.12-2 and Table 4.12-3 shows the projected supply and demand for single dry years and multiple dry years, respectively. The City of Fullerton is projected to meet demands during single and multiple dry year scenarios through 2040, with no surplus of water supplies.

Table 4.12-1 City of Fullerton Normal Year Supply and Demand Comparison (AFY)

Sources	2020	2025	2030	2035	2040
Groundwater	18,689	20,063	20,201	20,195	20,224
Imported Water	8,010	8,598	8,657	8,655	8,677
Total Supply	**26,699**	**28,661**	**28,858**	**28,850**	**28,891**
Demand	26,699	28,661	28,858	28,850	28,891
Total Surplus	**0**	**0**	**0**	**0**	**0**

Source: City of Fullerton 2017

Table 4.12-2 City of Fullerton Single Dry Year Supply and Demand Comparison (AFY)

Sources	2020	2025	2030	2035	2040
Total Supply	**28,301**	**30,381**	**30,589**	**30,581**	**30,624**
Demand	28,301	30,381	30,589	30,581	30,624
Total Surplus	**0**	**0**	**0**	**0**	**0**

Source: City of Fullerton 2017

Table 4.12-3 City of Fullerton Multiple Dry Year Supply and Demand Comparison (AFY)

	Sources	2020	2025	2030	2035	2040
First Year	Total Supply	28,301	30,381	30,589	30,581	30,624
	Demand	28,301	30,381	30,589	30,581	30,624
	Total Surplus	**0**	**0**	**0**	**0**	**0**
Second Year	Total Supply	28,301	30,381	30,589	30,581	30,624
	Demand	28,301	30,381	30,589	30,581	30,624
	Total Surplus	**0**	**0**	**0**	**0**	**0**
Third Year	Total Supply	28,301	30,381	30,589	30,581	30,624
	Demand	28,301	30,381	30,589	30,581	30,624
	Total Surplus	**0**	**0**	**0**	**0**	**0**

Source: City of Fullerton 2017

Wastewater

Wastewater from CSUF enters into the City's sewer system. The Sewer Division in the City's Public Works Department is responsible for the maintenance and rehabilitation of the more than 320 miles of sewer pipe within the City. The sewer system operates entirely by gravity and discharges into several OCSD sewer trunk lines (City of Fullerton 2012).

The OCSD collects, treats, and disposes of, or reclaims, the wastewater generated in Fullerton. OCSD collects wastewater from an approximately 480 square mile area and has 15 outlying pump stations as well as two wastewater treatment plants located in Fountain Valley (Reclamation Plant No. 1) and Huntington Beach (Treatment Plant No. 2). There are two trunk sewers maintained by OCSD that serve the City, and all of the wastewater collected in Fullerton is transported to and treated at OCSD's Treatment Plant No. 2 in Huntington Beach (City of Fullerton 2012). Once treated, wastewater effluent is either discharged through an ocean outfall system or routed to OCWD Groundwater Replenishment System (GWRS) facility, which is adjacent the Reclamation Plant No. 1. OCSD's partnership with OCWD allows for the Sanitation District to produce and provide up to 100 million gallons per day (MGD) of reclaimed water to the GWRS facility (OCSD 2018).

During the 2017/2018 fiscal year, approximately 130 MGD of wastewater was routed to the facilities operated by OCSD (OCSD 2018). Reclamation Plant No. 1 has a primary capacity of 204 MGD of wastewater. Additional treated effluent from Reclamation Plant No. 1 is sent to Treatment Plant No. 2 where it is further treated and disposed of into the ocean (OCSD 2018). Treatment Plant No. 2 has a treatment capacity of 168 MGD, with an average daily treatment of approximately 127 MGD (City of Fullerton 2012).

Stormwater

The Office of Administration and Finance at CSUF oversees the campus's Storm Water Management Program. The program aims to reduce contamination of soil and groundwater by controlling hazardous materials spills and underground storage tanks. CSUF has been designated as a regulated Municipal Separate Stormwater System (MS4). This is due to the presence of roads with drainage systems, streets and roadways, catch basins, curbs, gutters, man-made channels, and storm drains. Under an MS4 designation, polluted storm water is transported to separate municipal storm sewer systems and discharged into local waterways.

OCFCD maintains stormwater facilities in the vicinity of the campus, including the Fullerton Creek Channel, which flows immediately northwest of the campus, passing under the intersection of Yorba Linda Boulevard and State College Boulevard (OCFCD 2005).

Solid Waste

Solid waste from CSUF is diverted to the Republic Services transport station in the City of Anaheim. CSUF is serviced by three waste management trucks including a recycling front loader and two landfill trucks. The transport station sorts CSUF's recyclables (aluminum cans, paper, glass, cardboard) from other solid waste that were not previously sorted on campus. In 2017, Republic Services treated approximately 3,000 tons of waste from CSUF, a normal standard for the campus. This amount fluctuates depending on certain variables such as construction. Sorted recyclables are then sold to various companies for reuse and reproduction of products. Recyclables that are not sold are transported to either the Olinda Landfill or Frank R. Bowerman Landfill.

CSUF implements various strategies to divert waste and reduce total waste on campus. Strategies include, but are not limited to, participating in the California Department of Resources Recycling and Recovery (CalRecycle) Buy-Recycled program, providing all buildings on campus with Max-R recycling-and-waste bins, and employing zero waste at special events on campus. The CSU system has set a goal to reach an 80 percent waste diversion by 2020, surpassing the state mandated goal of 75 percent waste diversion (CSU 2014).

Telecommunications

CSUF's Division of Information Technology provides telecommunications services to the campus and manages telephone, voicemail systems, infrastructure cabling, and campus-issued mobile devices, as well as all telecommunications installations and repairs (CSUF 2019). Additionally, the campus and area are served by a variety of wireless telephone service providers, including AT&T, Sprint, and Verizon.

b. Regulatory Setting

Federal

Federal Clean Water Act of 1977

The federal Water Pollution Control Act was passed in 1972 and was amended in 1977 as the CWA (33 U.S.C. 1251 1376). The CWA was reauthorized in 1981, 1987, and 2000. It establishes the basic structure for regulating discharges of pollutants into the waters of the United States and has given the U.S. Environmental Protection Agency the authority to implement pollution control programs. The CWA requires states to set standards to protect, maintain, and restore water quality through the regulation of point source and certain non-point source discharges to surface waters. Many pollutants are regulated under the CWA, including various toxic pollutants, total suspended solids, biological oxygen demand and pH (acidity/alkalinity measure scale). Those discharges are regulated by the NPDES permit process, described below. The CWA generally applies to surface Waters of the United States, managed by the U.S. Army Corps of Engineers.

State

Porter-Cologne Water Quality Control Act

The Porter-Cologne Water Quality Control Act is the overarching water quality control law for California. It is implemented by the SWRCB and nine RWQCBs. The SWRCB establishes statewide policy for water quality control and provides oversight of the regional boards' operations. The Porter-Cologne Act and the CWA overlap in many ways, as the entities established by the Porter-Cologne Act enforce and implement many federal laws and policies.

Water Conservation Act of 2009

SB X7-7, which became effective on February 3, 2010, is the water conservation component to the Delta legislative package (SB 1, Delta Governance/Delta Plan). It seeks to implement water use reduction goals established in 2008 to achieve a 20 percent statewide reduction in urban per capita water use by December 31, 2020. The bill requires each urban retail water supplier to develop urban water use targets to help meet the 20 percent goal by 2020 and meet an interim 10 percent goal by 2015.

Senate Bill 610

SB 610 was signed into law in 2001. This law requires cities and counties to develop water supply assessments (WSAs) when considering approval of applicable development projects in order to determine whether projected water supplies can meet the project's anticipated water demand. Triggers requiring the preparation of a WSA include residential developments of more than 500 dwelling units, shopping centers or business establishments employing more than

1,000 persons or having more than 500,000 square feet of floor space, commercial office buildings employing more than 1,000 persons or having more than 250,000 square feet of floor space, and projects that would demand an amount of water equivalent to, or greater than, the amount of water required by a 500 dwelling unit project. Because the CSU is a State agency and not a city or county, it is not subject to the requirements of Section 19010 of the state Water Code, which implements SB 610, and therefore SB 610 is not applicable to the Campus Master Plan project.

Senate Bill 221

Whereas SB 610 requires a written assessment of water supply availability, SB 221 requires lead agencies to obtain written verification of sufficient water supply prior to approval of certain specified subdivision projects. For this purpose, water suppliers may rely on an UWMP (if a proposed project is accounted for within the UWMP), a WSA or other acceptable information that constitutes "substantial evidence." "Sufficient water supply" is defined in SB 221 as the total water supplies available during normal, single-dry and multiple-dry water years within the 20-year (or greater) projection period that are available to meet the projected demand associated with a proposed project, in addition to existing and planned future uses. WSAs are required for residential projects of more than 500 units and hotels of more than 500 rooms. The Campus Master Plan does not meet these criteria and therefore does not require preparation of a WSA pursuant to SB 221.

Water Conservation in Landscaping Act

The Water Conservation in Landscaping Act, enacted in 2006, required the DWR to update the Model Water Efficient Landscape Ordinance (MWELO). In 2009, the Office of Administrative Law approved the updated MWELO, which required a retail water supplier or a county to adopt the provisions of the MWELO by January 1, 2010, or enact its own provisions equal to or more restrictive than the MWELO provisions. The City of Fullerton has adopted a Landscape Ordinance (Title 15 of the Fullerton Municipal Code) that applies to all new construction and replacement of landscape areas equal or greater than 2,500 square feet in Fullerton. This ordinance would not, however, apply to activities carried out under the Campus Master Plan, because CSUF, as part of the CSU system, is not subject to the City's Municipal Code.

Green Building Standards Code

In January 2010, the CBSC adopted the statewide mandatory CalGreen that requires the installation of water-efficient indoor infrastructure for all new projects beginning after January 1, 2011. CalGreen was incorporated as Part 11 into Title 24 of the California Code of Regulations. CalGreen was most recently revised in 2015, with the revisions taking effect for projects approved after December 31, 2015. These revisions include the adoption of former emergency measures for outdoor irrigation and indoor plumbing fixtures applied in 2015 in response to the Governor's Executive Order B-29-15 in response to extreme drought conditions. CalGreen applies to the planning, design, operation, construction, use and occupancy of every newly constructed building or structure. All new development must satisfy the indoor water use infrastructure standards necessary to meet CalGreen.

CalGreen requires residential and nonresidential water efficiency and conservation measures for new buildings and structures that will reduce the overall potable water use inside the building by 20 percent. The 20 percent water savings can be achieved in one of the following ways:
(1) installation of plumbing fixtures and fittings that meet the 20 percent reduced flow rate specified

in CalGreen, or (2) by demonstrating a 20 percent reduction in water use from the building "water use baseline."

Urban Water Management Plan Act

The California Urban Water Management Planning Act applies to municipal water suppliers that serve more than 3,000 customers or provide more than 3,000 AFY of water. The Act requires these water suppliers to update their UWMP every five years to identify short-term and long-term water demand management measures to meet growing water demands during normal, dry and multiple-dry years. The UWMP should include a description of existing and planned water sources, alternative sources, conservation efforts, reliability and vulnerability assessments, and a water shortage contingency analysis.

Phase II Stormwater Discharge Permit (Order Number 2013-0001-DWQ)

On February 5, 2013, the SWRCB adopted the Waste Discharge Requirements for Stormwater Discharges from Small MS4 General Permit (Order Number 2013-0001-DWQ) (Phase II MS4 Permit). The Phase II MS4 Permit regulates stormwater discharges from small MS4 systems throughout California. CSUF is regulated under the Phase II MS4 Permit as a non-traditional permittee

The Phase II MS4 Permit effectively prohibits non-stormwater discharges to the MS4. Furthermore, the permit requires all regulated projects—which are defined as projects creating and/or replacing 5,000 sf or more of impervious area—to incorporate low impact development (LID) measures, including stormwater retention and treatment features. Stormwater retention and treatment features must be designed to capture runoff from the 85th percentile, 24-hour storm event; 80 percent of the annual runoff; or flow from either 0.2 inch per hour rainfall intensity or twice the 85th percentile hourly rainfall intensity as determined by local rainfall records.

Integrated Solid Waste Management Act of 1989 (AB 939)

The California Integrated Waste Management Act (CIWMA) of 1989 created the (former) California Integrated Waste Management Board, now CalRecycle. Responsible for oversight of waste management in California, CalRecycle assists cities, counties, businesses, and organizations with meeting state waste reduction, reuse, and recycling goals. AB 939 requires that local jurisdictions meet waste diversion goals and establish a framework for program implementation, solid waste planning, and solid waste facility and landfill compliance. The CIWMA was primarily intended to encourage minimization of the volume of solid waste disposed of through "transformation" (including incineration, pyrolysis, distillation, and bioconversion) and land disposal through the establishment of solid waste diversion goals for all cities and counties.

AB 341 (Chesbro, 2011)

AB 341 builds from the goals and requirements of AB 939. It declared a State policy goal of 75 percent diversion of solid waste by the year 2020 and directed CalRecycle to develop and adopt regulations for mandatory commercial recycling.

CalGreen Construction Waste Management Requirements

CalGreen includes a number of requirements related to solid waste diversion. Importantly, new non-residential construction is required to achieve at least 65 percent construction and demolition waste diversion and provide recycling areas for paper, cardboard, glass, plastics, metal, and organic waste.

Regional and Local

City of Fullerton 2015 Urban Water Management Plan

The City's 2015 UWMP was prepared in accordance with the California Urban Water Management Planning Act and to implement the Water Conservation Act of 2009. The Plan encourages active planning for future demand and available supplies of water resources, and reports on water conservation strategies to meet the demands.

The Fullerton Plan

The Fullerton Plan, specifically the Natural Environment Element, recognizes the importance of achieving a reliable water supply and integrated waste management. The Fullerton Plan includes the following goals and policies that apply to the Campus Master Plan:

Goal 7: Growth and Development aligned with infrastructure capabilities.

> **Policy 7.3.** Support projects, programs, policies and regulations to plan for appropriate levels and types of infrastructure based on the desired character of each neighborhood or district.
>
> **Policy 7.5.** Support projects, programs, policies and regulations to ensure that development is appropriate in scale to current and planned infrastructure capabilities.

Goal 19: An adequate, safe, and reliable water supply.

> **Policy 19.3.** Support projects, programs, policies and regulations to encourage the use of new technologies which reduce water use.
>
> **Policy 19.5.** Support projects, programs, policies and regulations to ensure the quality of the water supply.
>
> **Policy 19.7.** Support projects, programs, policies and regulations to encourage water efficient practices in site and building design for private and public projects.

Goal 23: Safe and efficient management of waste.

> **Policy 23.3.** Support projects, programs, policies and regulations to promote practices to reduce the amount of waste disposed in landfills.
>
> **Policy 23.6.** Support projects, programs, policies and regulations to evaluate ways to increase recycling and product reuse and reduce waste as part of community-based planning of Focus Areas.
>
> **Policy 23.7.** Support projects, programs, policies and regulations to consider project level solid waste management needs at the site and building design stages.

City of Fullerton Municipal Code

Chapter 5.16 of the City of Fullerton Municipal Code establishes diversion requirements for construction and demolition activities and required applicants to submit a Waste Reduction and Recycling Plan for review and approval in order to reduce the amount of construction waste is disposed of in landfills.

4.12.2 Impact Analysis

a. Thresholds of Significance

To determine whether a project would result in a significant impact to Utilities and Service Systems, Appendix G of the CEQA Guidelines requires consideration of whether a project would:

1. Require or result in the relocation or construction of new or expanded water, wastewater treatment or stormwater drainage, or telecommunications facilities, the construction of which could cause significant environmental effects;
2. Not have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry and multiple-dry years;
3. Result in a determination by the wastewater treatment provider which serves or may serve the project that it does not have adequate capacity to serve the project's projected demand in addition to the provider's existing commitments
4. Generate solid waste in excess of state or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals; or
5. Not comply with federal, state, and local management and reduction statutes and regulations related to solid waste

b. Methodology

Project water demand and solid waste generation were estimated using the CalEEMod run prepared for the Campus Master Plan. CalEEMod estimates project-specific annual water use based on rates derived from statewide water consumption by sector as reported by the Pacific Institute's *Waste Not, Want Not: The Potential for Urban Water Conservation in California* report (CAPCOA 2017). Wastewater generation was obtained from sewer flow calculations prepared in support of the Campus Master Plan. Wastewater generation was based on land use-based generation factors from the City of Los Angeles *Sewerage Facilities Charge Sewage Generation Factor for Residential and Commercial Categories* (Flad Architects 2020). Solid waste generation associated with the Campus Master Plan was estimated based on anticipated demolition debris and operational waste generation as reported in CalEEMod. CalEEMod calculates annual waste generation based on land use-based waste disposal rates reported by CalRecycle (CAPCOA 2017). Other publicly available resources consulted as part of this analysis include the City of Fullerton 2015 UWMP, the OCSD Wastewater Collection and Treatment Facilities Master Plan, the statewide Phase II MS4 Permit, and the CalRecycle Solid Waste Information System (SWIS) database.

c. Impact Analysis

Threshold:	Would the Campus Master Plan require or result in the relocation or construction of new or expanded water, wastewater treatment or stormwater drainage, or telecommunications facilities, the construction of which could cause significant environmental effects?

Impact U-1 THE CAMPUS MASTER PLAN MAY REQUIRE THE RELOCATION OR CONSTRUCTION OF NEW OR EXPANDED WATER INFRASTRUCTURE ON THE CAMPUS. HOWEVER, SUCH RELOCATION AND CONSTRUCTION WOULD NOT CAUSE SIGNIFICANT ENVIRONMENTAL EFFECTS. IMPACTS WOULD BE LESS THAN SIGNIFICANT. NO MITIGATION MEASURES ARE REQUIRED.

Water

CSUF is served by existing City potable water facilities. The Campus Master Plan may require installation of additional water main lines, lateral connections, and hydrants within the plan area to serve planned facilities. Such facilities would be installed during individual project construction and within the disturbance area of such projects or previously disturbed roadways; therefore, the construction of these infrastructure improvements would not substantially increase disturbance area, associated emissions, or otherwise cause significant environmental effects beyond those identified throughout this document. As described in Impact U-2, below, the Campus Master Plan would be served by existing and planned City supplies, which are not anticipated to require major City treatment or distribution facility improvements. Therefore, impacts with respect to new or expanded water facilities would be less than significant.

Mitigation Measures

No mitigation is required.

Significance After Mitigation

Impacts would be less than significant without mitigation

Impact U-2 THE CAMPUS MASTER PLAN MAY REQUIRE THE RELOCATION OR CONSTRUCTION OF NEW OR EXPANDED WATER INFRASTRUCTURE ON THE CAMPUS. HOWEVER, SUCH RELOCATION AND CONSTRUCTION WOULD NOT CAUSE SIGNIFICANT ENVIRONMENTAL EFFECTS. IMPACTS WOULD BE LESS THAN SIGNIFICANT. NO MITIGATION MEASURES ARE REQUIRED.

Wastewater Treatment

CSUF is served by existing City and OCSD wastewater conveyance facilities, including OCSD trunk sewers within the Yorba Linda Boulevard and North State College Boulevard rights-of-way (ROW); as well as a City sewer main line within the Nutwood Avenue ROW (City of Fullerton 2012). The Campus Master Plan may require installation of additional sewer lines and lateral connections within the plan area to serve planned facilities. As with water facilities, any sewer line extensions necessary to serve the proposed future facilities would generally be installed within the already disturbed ROW of existing roads or within the disturbance footprint of proposed buildings. As such, the construction of these infrastructure improvements would not substantially increase the Campus

Master Plan's disturbance area, associated emissions, or otherwise cause significant environmental effects beyond those identified throughout this document.

The Campus Master Plan would result in an increase in wastewater generation relative to existing campus conditions. Wastewater generated at the campus would be treated at the OCSD Treatment Plant No. 2 in Huntington Beach. According to sewer flow calculations prepared in support of the Campus Master Plan, existing facilities to be replaced under the Campus Master Plan currently generate an average wastewater flow of approximately 82,860 gallons per day (GPD) (0.08 MGD), or a peak flow of 207,150 GPD (0.21 MGD). New facilities constructed under the Campus Master Plan would generate an average wastewater flow of approximately 573,749 GPD (0.57 MGD), or a peak flow of approximately 1,434,373 GPD (1.43 MGD). Therefore, the Campus Master Plan would result in a net increase in average wastewater flow of approximately 490,889 GPD (0.49 MGD) and peak flow of approximately 1,227,223 (1.23 MGD). Table 4.12-4 summarizes the available capacity at the OCSD Treatment Plant No. 2 and the percentage used by anticipated project wastewater generation based on both average and peak daily flow conditions.

Table 4.12-4 Wastewater Treatment Plant Capacity

	Orange County Sanitation District Treatment Plant No. 2
Average Daily Treatment	127 MGD
Capacity	168 MGD
Available Capacity	41 MGD
Project Net Wastewater Generation - Average Flow (Peak Flow)	0.49 MGD (1.23 MGD)
Percent of Available Capacity Used by Project – Average Flow (Peak Flow)	1.2% (3.0%)

MGD = million gallons per day

Note: Peak flow is determined for sewer infrastructure design purposes by multiplying the design flow by a peaking factor. Sewer flow calculations prepared for the project employed a peaking factor of 2.5. Peak flow conditions are anticipated to result from wet weather and inflow/infiltration to the sewer system and are analyzed in this EIR to provide a conservative analysis.

Sources: City of Fullerton 2012; Flad Architects 2020

As shown in Table 4.12-4, wastewater treatment facilities serving the Campus Master Plan have sufficient capacity to process the additional wastewater generated by the Campus Master Plan under both average and peak daily flow conditions. Furthermore, total influent[1] flow to OCSD facilities has declined steadily since 2005, with influent flows dropping approximately 20 percent between 2005 and 2016 (OCSD 2017). Consequently, OCSD does not consider capacity a driving factor in its capital improvement program. The Campus Master Plan would be responsible for constructing on-site wastewater treatment conveyance systems and paying standard sewer connection fees, as necessary. Consequently, impacts with respect to wastewater treatment facilities would be less than significant.

[1] Influent (adjective) – flowing in. Influent (noun) – a stream, especially a tributary, which flows into another stream or lake.

Mitigation Measures

No mitigation is required.

Significance After Mitigation

Impacts would be less than significant without mitigation

Impact U-3 THE CAMPUS MASTER PLAN MAY REQUIRE THE RELOCATION OR CONSTRUCTION OF NEW OR EXPANDED STORMWATER MANAGEMENT ON THE CAMPUS. HOWEVER, SUCH RELOCATION AND CONSTRUCTION WOULD NOT CAUSE SIGNIFICANT ENVIRONMENTAL EFFECTS. IMPACTS WOULD BE LESS THAN SIGNIFICANT. NO MITIGATION MEASURES ARE REQUIRED.

Stormwater Management

As described in Section 4.12.1, *Setting*, CSUF is regulated under the Phase II MS4 Permit, which requires all regulated projects—defined as projects creating and/or replacing 5,000 sf or more of impervious area—to incorporate LID measures, including stormwater retention and treatment features. Such stormwater retention features must capture runoff from the 85th percentile, 24-hour storm event; 80 percent of the annual runoff; or flow from either 0.2 inch per hour rainfall intensity or twice the 85th percentile hourly rainfall intensity as determined by local rainfall records. Potential retention features that may be incorporated into individual project designs include detention basins, biofiltration/catchment basins, or constructed wetland features. Given the size of proposed facilities, it is anticipated that all individual projects constructed under the Campus Master Plan would constitute regulated projects under the Phase II MS4 Permit and, therefore, would be required to demonstrate compliance with the stormwater capture requirements described in the permit.

As with water and wastewater facilities, proposed storm drain infrastructure would be constructed within the disturbance area of individual projects or previously disturbed roadways and would not result in substantial additional environmental impacts. Given that individual projects would capture and retain on-site runoff in compliance with the Phase II MS4 Permit, off-site improvements to the storm drain network would not be anticipated. As such, impacts related to new or expanded stormwater facilities would be less than significant.

Mitigation Measures

No mitigation is required.

Significance After Mitigation

Impacts would be less than significant without mitigation

Impact U-4 THE CAMPUS MASTER PLAN MAY REQUIRE THE RELOCATION OR CONSTRUCTION OF NEW OR EXPANDED TELECOMMUNICATION ON THE CAMPUS. HOWEVER, SUCH RELOCATION AND CONSTRUCTION WOULD NOT CAUSE SIGNIFICANT ENVIRONMENTAL EFFECTS. IMPACTS WOULD BE LESS THAN SIGNIFICANT. NO MITIGATION MEASURES ARE REQUIRED.

Telecommunications

No major telecommunications improvements are proposed as part of the Campus Master Plan. Individual projects occurring under the Campus Master Plan may require minor telecommunications improvements, such as undergrounding of telephone lines or rewiring of buildings during renovation. Such improvements would be minor in nature and would generally occur within the disturbance area of individual projects. Consequently, impacts would be less than significant.

Mitigation Measures

No mitigation measures are required.

Significance After Mitigation

Impacts would be less than significant without mitigation.

Threshold:	Would the Campus Master Plan have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry and multiple dry years?

Impact U-5 CONSTRUCTION AND OPERATION OF THE CAMPUS MASTER PLAN WOULD RESULT IN A NET INCREASE IN WATER DEMAND OF APPROXIMATELY 1,198 AFY OF WATER. THIS INCREASE IN DEMAND THROUGH 2040 IS ACCOUNTED FOR IN THE CITY OF FULLERTON'S 2015 URBAN WATER MANAGEMENT PLAN. IMPACTS WOULD BE LESS THAN SIGNIFICANT. NO MITIGATION MEASURES ARE REQUIRED.

The Campus Master Plan would generate both construction-related and operational water demand. Discussions of both sources of water demand follow.

Construction Demand

Water would be required for temporary construction activities on the campus, including dust suppression, grading and grubbing, compaction, construction equipment wheel washing, and concrete mixing and casting. Water consumption by construction workers and cleaning of portable toilets on the campus may also account for a small portion of overall construction water demand.

Watering for dust suppression would demand the most water during construction. Pursuant to the requirements of SCAQMD Rule 403 as described in Section 4.2, *Air Quality*, all disturbed unpaved roads and disturbed areas within the campus would be watered to reduce fugitive dust generation from construction activities. Demolition, site preparation, and grading are the activities anticipated to result in the greatest dust generation and, therefore, the greatest construction-related water demand. Water demand for dust suppression is highly dependent on a number of site-specific variables, including soil properties, antecedent moisture conditions, and other climatic factors. A 2017 analysis prepared by SCAQMD estimated water demand associated with Rule 403 dust suppression requirements for construction sites in SCAQMD jurisdiction at approximately

1,000 gallons per acre per day (SCAQMD 2017). According to the construction schedule used in the CalEEMod run prepared for the Campus Master Plan, demolition, site preparation, and grading activities would occur anywhere from 310 days during Phase 2 and Phase 3 to 630 days during Phase 1. The disturbance area requiring watering for dust control would vary depending on the nature of projects and the number of projects occurring simultaneously. According to the Campus Master Plan the largest single component, Student Housing Cluster 2, has a footprint of approximately 130,000 square feet, or approximately three acres. Therefore, it was conservatively assumed up to five acres of land may require site watering over the course of demolition, site preparation, and grading activities for any given development phase.

Table 4.12-5 shows estimated construction water demand associated with each phase of development.

Table 4.12-5 Anticipated Construction Water Demand

Construction Phase	Duration of Demolition, Site Preparation, and Grading Activities[1]	Projected Construction Water Demand (gallons)[2]	Projected Construction Water Demand (AF)
Phase 1	630 days	3,150,000	9.7
Phase 2	310 days	1,550,000	4.8
Phase 3	310 days	1,550,000	4.8
Total	***1,250 days***	***6,250,000***	***19.2***

[1]Based on demolition, site preparation, and grading activity duration in construction schedule provided by CalEEMod run.

[2]Assumes up to five acres requiring site watering during any given day and a 1,000 gallon per acre per day watering rate (SCAQMD 2017).

Source: CalEEMod outputs (Appendix C), SCAQMD 2017

AF = acre-feet

Note: Totals may not sum precisely due to rounding.

Construction water demand would account for approximately 19.2 AF over the approximately 16-year buildout period, or approximately 1.2 AFY. Construction water demand would be temporary and, therefore, would not result in a long-term strain on water supplies. Given the temporary and minimal nature of construction water demand, impacts related to construction water consumption would be less than significant.

Operational Demand

The Campus Master Plan would replace and renovate various CSUF facilities and would increase student and faculty housing and associated amenities on the campus. Table 4.12-6 summarizes the projected water demand of the Campus Master Plan based on land use-based demand factors provided by CalEEMod. This analysis conservatively assumes all project-generated demand would be new water demand and does not account for water demand associated with existing facilities to be replaced. The analysis is conservative since, in the absence of a water use rate for on-campus student housing, the City's water demand factor for apartments was applied to calculate water demand; however, student housing uses less water per capita than apartments because they do not include individual kitchens and share bathrooms and laundry facilities.

Table 4.12-6 Estimated Project Water Demand

Land Use Type	Indoor Water Demand (Million Gallons per Year)	Outdoor Water Demand (Million Gallons per Year)	Total Water Demand (Million Gallons per Year)	Total Water Demand (AFY)
Apartments (Mid-Rise)	143.3	113.0	256.3	786.5
Arena[1]	87.6	7.0	94.6	290.2
Regional Shopping Center	2.4	1.8	4.2	12.8
University/College	12.0	23.4	35.4	108.7
Total	**245.3**	**145.2**	**390.5**	**1,198.3**

[1] Arena land use is a proxy for the proposed Event Center.
GPD = gallons per day, AFY = acre-feet per year, sf = square feet
Note: Totals may not sum precisely due to rounding.
Source: CalEEMod outputs (Appendix C)

Indoor water use would account for approximately 62.8 percent of the Campus Master Plan's total water demand, with the majority of indoor water use associated with the student and faculty housing. Outdoor water use would account for approximately 37.1 percent of the Campus Master Plan's total water demand and would include water used for landscape irrigation and water features. These conservative estimations would be reduced through the inclusion of State mandated water conservation measures. For example, the Campus Master Plan would comply with all requirements of CalGreen pertaining to maximum flow rates for plumbing fixtures, such as toilets, showerheads, and faucets in both residential and non-residential buildings. Furthermore, per the CSU Sustainability Policy, adopted in 2014 by the CSU Board of Trustees, all CSU campuses are to develop sustainable landscaping, install controls to optimize irrigation water use, and cooperate with state, city, and county governments to reduce water use during drought declarations (CSU 2014). Compliance with CalGreen and the CSU Sustainability Policy, and continued water conservation efforts already in place at CSUF, would further decrease the indoor and outdoor water demand beyond the rates presented in Table 4.12-6.

Water Supply Availability

As discussed in Section 4.18.1, *Setting*, the City of Fullerton estimates water supply availability for normal, single-dry, and multiple-dry year scenarios from 2020 through 2040 in its 2015 UWMP. For all years and all scenarios, the City anticipates meeting projected demand, but does not anticipate any excess supply. Therefore, the analysis of water supply availability focuses on whether or not the Campus Master Plan is consistent with the water demand projections contained in the City's 2015 UWMP.

The majority of the Campus Master Plan's anticipated increase in water demand is attributable to proposed student and faculty housing. The Event Center, university/college, and retail land uses would amount to approximately 412 AFY.

The City's 2015 UWMP projects future residential water demand from 2020 through 2040, which corresponds to the approximate buildout timeframe of the Campus Master Plan. Table 4.12-7

summarizes the Campus Master Plan components' share of the increase in demand for the applicable land use types as reported in the City's 2015 UWMP. Water demand associated with the Campus Master Plan's housing components were compared to the 2015 UWMP's anticipated increase in total residential demand, while water demand associated with the arena (event center), university/college, and retail land uses was compared to the 2015 UWMP's anticipated increase in commercial and institutional/governmental demand.

Table 4.12-7 Project Share of Fullerton Projected Demand Increase by Use Type

Project Component	2020 Projected Demand in Use Type	2040 Projected Demand in Use Type	Projected Increase	Project Demand	Project's Share of Projected Increase (%)
Apartments (Mid-Rise)	15,743[1]	17,035[1]	1,292	786.5[2]	60.9
Arena[3], University/College, Retail	5,586[4]	6,045[4]	459	411.7[5]	89.7

[1] Based on total residential use type demand, as shown in Table 2-8 of the 2015 UWMP (City of Fullerton 2017).

[2] Demand obtained from CalEEMod, as presented in Table 4.12-6.

[3] Arena land use is a proxy for the Event Center.

[4] Based on commercial and institutional/governmental use type demand, as shown in Table 2-4 of the 2015 UWMP (City of Fullerton 2017).

[5] Demand obtained from CalEEMod, as presented in Table 4.12-6.

Units in acre-feet per year (AFY).

Source: City of Fullerton 2017, CalEEMod outputs (Appendix C)

As shown in Table 4.12-7, the Campus Master Plan's anticipated demand would be within the projected 2020 to 2040 demand increases assumed in the City's 2015 UWMP. The campus is located in a portion of the City of Fullerton served by both imported water from MWD and local groundwater (City of Fullerton n.d.). Based on the water supply projections contained in the City's 2015 UWMP, the City anticipates purchasing up to 8,667 AFY from MWD to meet demand through 2040 (City of Fullerton 2017, Table 3-4). Based on the Tier 1 limits described in MWD's 2015 UWMP, the City would have an additional 2,632 AFY available from MWD to serve both the Campus Master Plan and reasonably foreseeable future development during normal, single-dry, and multiple-dry year scenarios. MWD anticipates sufficient supplies to meet expected demand under normal, single-dry, and multiple-dry year conditions through 2040 (MWD 2016).

As described above, the Campus Master Plan's projected gross increase in water demand would be within the anticipated increase in water demand through 2040 accounted for in the City's 2015 UWMP. Additionally, this analysis of Master Plan demand is highly conservative, in that it applies the City's apartment water demand factor to on-campus student housing and the City's commercial and arena demand factors to on-campus commercial and event center uses, respectively; assumes all water demand generated by the Campus Master Plan would be net new demand and does not account for existing water use at CSUF facilities that would be replaced; and does not factor in State and CSU mandated water conservation policies that would further reduce net demand.

Mitigation Measures

No mitigation measures are required.

Significance After Mitigation

Impacts would be less than significant without mitigation.

Threshold:	Would the project result in a determination by the wastewater treatment provider which serves or may serve the project that it does not have adequate capacity to serve the project projected demand in addition to the provider's existing commitments?

Impact U-6 WASTEWATER GENERATED BY DEVELOPMENT UNDER THE CAMPUS MASTER PLAN WOULD BE TREATED AT THE ORANGE COUNTY SANITATION DISTRICT'S TREATMENT PLANT NO. 2 FACILITY IN HUNTINGTON BEACH. THE PLANT WOULD HAVE ADEQUATE CAPACITY TO SERVE THE CAMPUS MASTER PLAN'S ANTICIPATED WASTEWATER GENERATION IN ADDITION TO ITS EXISTING WASTEWATER TREATMENT COMMITMENTS. IMPACTS WOULD BE LESS THAN SIGNIFICANT. NO MITIGATION MEASURES ARE REQUIRED.

As discussed under Impact U-1, project-generated wastewater would be adequately served by available capacity at the OCSD Treatment Plant No. 2 facility in Huntington Beach. Wastewater generated by the development under the Campus Master Plan would account for approximately 2.2 percent of the remaining available capacity at the plant, which has approximately 41 MGD of excess treatment capacity. As such, the Campus Master Plan would not result in a determination by the wastewater treatment provider that it does not have adequate capacity to serve the Campus Master Plan's anticipated demand in addition to the provider's existing commitments. Impacts would be less than significant.

Mitigation Measures

No mitigation measures are required.

Significance After Mitigation

Impacts would be less than significant without mitigation.

Threshold:	Would the project generate solid waste in excess of state or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals?
Threshold:	Would the project fail to comply with federal, state, and local management and reduction statutes and regulations related to solid waste?

Impact U-7 THE CAMPUS MASTER PLAN WOULD NOT GENERATE SOLID WASTE IN EXCESS OF STATE OR LOCAL STANDARDS, OR IN EXCESS OF THE CAPACITY OF LOCAL INFRASTRUCTURE, INCLUDING THE FRANK R. BOWERMAN LANDFILL. THE CAMPUS MASTER PLAN WOULD NOT IMPAIR THE ATTAINMENT OF SOLID WASTE REDUCTION GOALS AND WOULD COMPLY WITH FEDERAL, STATE, AND APPLICABLE LOCAL STATUTES AND REGULATIONS RELATED TO SOLID WASTE. IMPACTS WOULD BE LESS THAN SIGNIFICANT. NO MITIGATION MEASURES ARE REQUIRED.

As described in Section 4.13.1, *Setting*, solid waste generated on the campus is collected and transported to the Republic Services transport station in Anaheim, and ultimately disposed of at either the Olinda Landfill in Brea or the Frank R. Bowerman Landfill in Irvine. Both landfills accept mixed municipal, industrial, and construction/demolition waste; the Olinda Landfill also accepts agricultural, tires, and wood waste (CalRecycle 2019a, 2019b).

While the Olinda Landfill is located closest to the campus, it has an anticipated ceased operations date of approximately December 31, 2021. Therefore, it is anticipated that the majority of waste

generated by the Campus Master Plan would be disposed of at the Frank R. Bowerman Landfill. The Frank R. Bowerman Landfill is located approximately 15 miles southeast of the campus at 11002 Bee Canyon Access Road in Irvine. According to the CalRecycle SWIS database, the Frank R. Bowerman Landfill has a maximum permitted capacity of 266,000,000 cy and a maximum daily throughput of 11,500 tons per day (CalRecycle 2019b). The landfill has an anticipated closure date of 2053.

Construction

Demolition of existing facilities and soil export would result in the generation of construction/demolition debris that would need to be disposed of at area landfills. Approximately 714,055 square feet of existing building area would be demolished and replaced over the course of the buildout of the Campus Master Plan, according to modeling assumptions used in CalEEMod. CalEEMod, which was used to determine emissions from all project construction activities including demolition, employs a conversion factor of 0.046 tons per square foot for building demolition debris, based on an analysis of commercial brick, concrete, and steel building demolition (CAPCOA 2017). Using the same conversion factor, demolition would generate approximately 32,847 tons of debris for off-site disposal, or approximately 82 tons per day when spread over the estimated 400 days of demolition activities anticipated across all construction phases, as estimated in CalEEMod. Consequently, demolition debris would account for approximately 0.7 percent of the permitted daily throughput at the Frank R. Bowerman Landfill during the 400 days of demolition activities. Hence, the facility would have adequate capacity to serve this phase of project construction.

Because the campus consists of a largely developed campus, grading for individual projects developed under the Campus Master Plan is not anticipated to result in major export of soil. Nevertheless, grading activities may result in export of some soil from individual project construction sites. As described above, both the Olinda Landfill and Frank R. Bowerman Landfill accept construction/demolition waste. Grading activities associated with the Campus Master Plan would not occur all at once, but rather would be spread across multiple projects implemented over the life of the Campus Master Plan. Furthermore, exported soil could be transported to other area landfills that accept soil and construction debris in nearby San Bernardino, Los Angeles, and Riverside counties to further reduce impacts at any single solid waste disposal facility, or used beneficially as landfill cover or imported fill material at other construction sites. Therefore, disposal of soils from grading of the campus would not exceed the capacity of local solid waste disposal facilities.

The handling of all debris and waste generated during construction of the Campus Master Plan would be subject to 2016 CalGreen requirements and the California Integrated Waste Management Act of 1989 (AB 939) requirements for salvaging, recycling, and reuse of materials from construction activity on the campus. Therefore, impacts related to solid waste generated during construction would be less than significant.

Operation

According to CalEEMod outputs, at buildout, implementation of the Campus Master Plan would generate a net increase of approximately 2,591.5 tons of solid waste annually, or approximately 7.1 tons per day. Based on this information, the Campus Master Plan's anticipated solid waste generation would account for less than 0.1 percent of the Frank R. Bowerman Landfill's daily permitted throughput of 11,500 tons per day. Given this small proportion of permitted throughput, the solid waste generated by operation of the Campus Master Plan would be adequately accommodated by existing landfills.

For operational waste, AB 939 requires all cities and counties to divert a minimum of 50 percent of all solid waste from landfills. The Campus Master Plan would be required to comply with federal, state, and CSU statutes and regulations related to solid waste. Therefore, because the Campus Master Plan would be served by landfills with sufficient capacity and would comply with applicable regulations related to solid waste, impacts would be less than significant.

Mitigation Measures

No mitigation measures are required.

Significance After Mitigation

Impacts would be less than significant without mitigation.

4.13 Effects Found Not to be Significant

Section 15128 of the CEQA Guidelines requires an EIR to briefly describe any possible effects that were determined not to be significant and were therefore not discussed in detail. This section addresses the potential environmental effects of the Campus Master Plan that were determined not to be significant. The topics listed below that were found not to be significantly affected by the Campus Master Plan are drawn from the environmental checklist form included in Appendix G of the CEQA Guidelines. Any items not addressed in this section are included in Sections 4.1 through 4.12 of this EIR.

4.13.1 Agriculture and Forestry Resources

The CEQA Guidelines Appendix G states that a significant impact on agricultural and forestry resources may result if the project would:

a. *Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use;*
b. *Conflict with existing zoning for agricultural use or a Williamson Act contract;*
c. *Conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code Section 12220(g)); timberland (as defined by Public Resources Code Section 4526); or timberland zoned Timberland Production (as defined by Government Code Section 51104(g));*
d. *Result in the loss of forest land or conversion of forest land to non-forest use;*
e. *Involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland to non-agricultural use or conversion of forest land to non-forest use.*

The CSUF campus which has a land use designation of School (S) as shown on Exhibit 2, *Community Development Plan*, in the Fullerton Plan Community Development and Design Element (City of Fullerton 2012). The campus does not contain Farmland, Unique Farmland, or Farmland of Statewide Importance and there are no active Williamson Act contracts associated with the campus (California Department of Conservation [DOC] 2016). There would be no impact with regard to conversion of farmland or conflicts with existing zoning or Williamson Act contracts.

According to the Orange County Important Farmlands 2016 map, the campus and immediate vicinity are designated as Urban and Built-Up Land (DOC 2016). The Arboretum located in the northeast corner of the campus contains several plant collections. However, the Fullerton Arboretum does not meet the definition of forest land or timberland under PRC Sections 12220(g) or 4526, or Government Code Section 51104(g). Therefore, implementation of the Campus Master Plan would not lead to the loss or conversion of farmland, forest land, or timberland, and would not produce changes in the existing environment which, due to their location or nature, could result in conversion of farmland to non-agricultural use or conversion of forest land to non-forest use. No impacts associated with farmland, forest land, or timberland would occur.

4.13.2 Biological Resources

A Biological Resources Assessment Memorandum (BRAM) was completed for the Campus Master Plan by Rincon Consultants, Inc., dated August 2019, and is included as Appendix N to this EIR. The analysis included in the BRAM is based on a literature review of the following: California Department of Fish and Wildlife (CDFW) California Natural Diversity Database (CNDDB); California Native Plant Society (CNPS) Online Inventory of Rare and Endangered Plants; U.S. Fish and Wildlife (USFWS) Critical Habitat Portal; USFWS Information, Planning, and Conservation System; USFWS National Wetland Inventory (NWI) Mapper; and the Natural Resources Conservation Service (NRCS) Web Soil Survey. The database review was confirmed with a field reconnaissance survey completed on July 15, 2019. The discussion herein is based on the findings presented in the BRAM (Appendix N).

The CEQA Guidelines Appendix G states that a significant impact on biological resources may result if the project would:

a. *Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service;*

b. *Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations or by the California Department of Fish and Game or US Fish and Wildlife Service;*

c. *Have a substantial adverse effect on state or federally protected wetlands (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means.*

The CNDDB/CNPS query results included nine special-status plant species and 18 special-status wildlife species within five miles of the campus. No natural native habitat exists within the campus that would support these plant or wildlife species; the only habitat present in the campus is landscaped and developed (Appendix O). Furthermore, no special-status plant or wildlife species were observed during the field reconnaissance survey. The campus is fully developed and supports educational institution uses, and the same uses would continue under the Campus Master Plan. Therefore, the Campus Master Plan would have no impact on any candidate, sensitive, or special-status species in local or regional plans, policies, or regulations, or by CDFW or USFWS.

Two ponds are located in the Fullerton Arboretum, which were confirmed to be artificial, with contained circulated water, and no connections to any other water features. The nearest natural feature is Fullerton Creek, located approximately 80 feet from the northwest corner of the campus under the intersection of East Yorba Linda Boulevard and North State College Boulevard. Impacts associated with the Campus Master Plan would be approximately 625 feet from the southern pond. Given the distance, the Campus Master Plan would have no impact on native riparian habitat or sensitive vegetation communities.

d. *Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites.*

The campus is surrounded by developed industrial and residential properties and established transportation corridors. CSUF is located adjacent to the Fullerton Creek, which is not designated as

an Essential Connectivity Area or Natural Landscape block (Appendix N). The campus has limited value or benefit to wildlife movement in the region given that it is bounded by urban and residential developments. The San Gabriel Mountains, located approximately 18 miles north of the CSUF campus, serves as the closest essential wildlife corridor connectivity area. A natural landscape block is located approximately three miles northeast of the campus in Chino Hills. Given the distance to these two areas, the campus does not serve as a migratory wildlife corridor and implementation of the Campus Master Plan would not substantially interfere with the movement of any native wildlife species. Therefore, the Campus Master Plan would have no impact on the movement of native or migratory fish or wildlife species.

e. Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance.

The Campus Master Plan includes design frameworks that specify tree plantings throughout campus, such as in the Green Loop where trees would be planted with a 15-foot setback from the centerline of the path, and campus axes where trees would be planted 12- to 15-feet from the centerline of the path. The Campus Master Plan states that a mature tree canopy would be maintained along the perimeter of campus to maintain a clear boundary between campus and neighboring residential areas and SR 57. Existing trees along the perimeter of campus would remain and additional trees would be planted where needed.

The City of Fullerton Municipal Code Section 09.06 states that the City has jurisdiction over planning, planting, maintenance and removal of all trees and other landscape material within the City's ROW (City of Fullerton 1995). Furthermore, tree trimming and removal of any City-owned street tree must be conducted by the City's contractor, West Coast Arborists, following a request to the Public Works department (City of Fullerton 2019b). If trees within the City's ROW are proposed to be altered in any way as part of the Campus Master Plan, a service request shall be submitted to the City of Fullerton Landscape Division. However, all tree planting and maintenance activities under the Campus Master Plan would occur on the CSUF campus. Campus tree planting and maintenance activities on the CSUF campus are regulated by Campus Master Plan design frameworks, not by the City of Fullerton. Therefore, the Campus Mater Plan would not conflict with any local policies or ordinances, and no impact would occur.

f. Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan.

The Fullerton Plan Natural Environment Element encompasses the campus (City of Fullerton 2012). The City of Fullerton does not have jurisdiction over CSUF; however, CSUF considers aspects of local plans and policies for the communities surrounding the campus when it is appropriate and feasible, although it is not bound by those plans and policies in its planning efforts. The Fullerton Plan Natural Environment Element provides guidelines for water, air quality and climate change, integrated waste management, open space and natural resources, and natural hazards. Based on the analysis completed in the BRAM (Appendix N) and summarized above, the Campus Master Plan would not have any impacts to biological resources including native habitats or waterways. The campus is not subject to any Habitat Conservation Plan, Natural Conservation Community Plan, or additional local, regional, or state habitat conservation plan. Therefore, the Campus Master Plan would not conflict with any adopted or approved plans and would have no impact.

4.13.3 Geology and Soils

The CEQA Guidelines Appendix G states that a significant hazardous and hazardous materials impact may result if the project would:

e. Have soils incapable of adequately supporting the use of septic tanks or alternative wastewater disposal systems where sewers are not available for the disposal of wastewater.

The CSUF campus is connected to existing water and sewer infrastructure, further described in Section 4.12, *Utilities and Service Systems*, of this EIR. The Campus Master Plan does not include the use of septic tanks or alternative wastewater disposal systems. Therefore, it would have no impact associated with soil adequacy for septic tanks or alternative wastewater disposal systems.

4.13.4 Hazards and Hazardous Materials

The CEQA Guidelines Appendix G states that a significant hazardous and hazardous materials impact may result if the project would:

a. Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials;

b. Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment.

The uses envisioned under the Campus Master Plan are essentially a continuation and expansion of existing uses. Campus operations and maintenance currently utilize relatively small amounts of hazardous materials, such as chemicals associated with laboratory research, heating and cooling system fluids, fuel for maintenance equipment, solvents, cleaning products, pesticides/fertilizers, asbestos in building materials, and other similar chemicals. These materials would continue being used under the Campus Master Plan and would not be substantially different from household chemicals and solvents already in general and wide use. The findings in this discussion are based on the Hazardous Materials Report (Appendix P).

Protocols established for current and future campus operational and maintenance activities adhere to applicable local, state, and federal laws regulating the use and transport of hazardous materials. For example, the FFD and the State of California Occupational Safety and Health Administration (CalOSHA) regulate the use, storage, and handling of hazardous materials within the CSUF campus. The FFD is also responsible for the enforcement of all local, state, and federal codes related to the safe occupancy of buildings. These codes inherently safeguard life and property from the hazards of fire, the fire/explosion hazards arising from the storage, handling, and use of hazardous substances, materials, and devices, as well as hazardous conditions due to the use or occupancy of buildings. CalOSHA protects workers and the public from occupational safety hazards through its Occupational Safety and Health program and provides consultative assistance to employers to help ensure a safe working environment.

Chemical safety training is required for all students who work with chemicals, in order to minimize the occurrence of accidental chemical releases and ensure that, when one does occur, it is handled in a safe manner. Material Safety Data Sheets (MSDS), which outline procedures to address spills and leaks for individual chemicals, are reviewed during training conducted under the federal Hazard Communication Standard (29 CFR 1910.1200) and the Laboratory Standard (29 CFR 1910.1450). Copies of MSDSs are received with shipments of new materials and are maintained in each applicable work location. The CSUF campus has existing plans that address hazard communication,

and the management of hazardous materials and wastes. These plans provide campus-wide procedures for the proper storage, labeling, handling and use, and disposal of hazardous materials (CSUF 2018a; CSUF 2019b). The Campus Master Plan does not entail transport, use, or disposal of substantial amounts of hazardous substances, and implementation of projects under the Campus Master Plan would not create conditions that would release hazardous materials into the environment. Therefore, the Campus Master Plan would have a less than significant impact.

c. Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school.

The CSUF campus is a school itself. Three additional schools within a one-quarter mile radius of the campus include the following:

- La Vista High School (909 North State College Boulevard), approximately 100 feet to the west of the CSUF campus
- Troy High School (2200 Dorothy Lane), approximately 400 feet to the west of the CSUF campus
- Hope International University (2500 Nutwood Avenue), approximately 100 feet to the south of the CSUF campus
- Marshall B. Ketchum University (2575 Yorba Linda Boulevard), approximately 100 feet to the north of the CSUF campus

Potential impacts associated with the transport, use, or disposal of hazardous materials are discussed above in response to criteria ‘a’ and ‘b.’ As described therein, proposed campus renovations, educational, residential, and recreational uses would not involve the transport, use, or disposal of substantial amounts of hazardous substances. As stated above, the US Department of Transportation regulates the transportation of hazardous materials through implementation of the Hazardous Materials Transportation Act. Therefore, the Campus Master Plan would have a less than significant impact on the emission or handling of hazardous materials in the vicinity of schools.

d. Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment.

A review of the USEPA’s Superfund National Priorities List found that there are no superfund sites within CSUF or immediate vicinity. CSUF is not listed as a hazardous materials site according to the DTSC EnviroStor and the SWRCB GeoTracker databases. According to the EnviroStor database, one site formerly located at La Vista High School (approximately 100 feet west of CSUF) was identified as containing hazardous materials; however, the site was closed and requires no further action, and presents no potential hazard (DTSC 2019).

The GeoTracker database contains four sites in the campus that were previously contaminated; chiefly, gasoline contamination on the ground (SWRCB 2019). All four sites have been cleaned, closed, and require no further action. There are several additional former contamination sites in the immediate vicinity of the campus, but all were cleaned and closed. The nearest open site is located approximately 0.35 mile east of the campus at 2960 E. Yorba Linda Boulevard (gas station) and is undergoing site cleanup. Therefore, implementation of the Campus Master Plan would not create a significant hazard to the public or environment and no impact would occur.

e. For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard or excessive noise for people residing or working in the project area.

The Fullerton Municipal Airport is located approximately five miles west of CSUF. The campus is not located in the planning area or impact zone for the Fullerton Municipal Airport or any other airport land use plan (Orange County Airport Land Use Commission [ALUC] 2019). Additionally, proposed construction and operational activities under the Campus Master Plan would not pose a safety hazard for people residing or working on the campus since proposed uses under the Campus Master Plan would be similar in nature to existing college campus uses, and Campus Master Plan projects would be phased with construction management plans. Project noise impacts are discussed in detail in Section 4.7, *Noise*; wherein the analysis concludes that the Campus Master Plan would have a less than significant noise impact with implementation of mitigation measures specific to impact construction noise and vibration, and operation of HVAC units.

Further, although projects under the Campus Master Plan include the construction of several multistory buildings, the campus is not located within the height restriction zone for Fullerton Municipal Airport or any other airport. Therefore, no impact would occur.

f. Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan.

The Campus Master Plan would maintain and/or enhance existing access points to and internal circulation routes on the campus. The FFD and the DSA are required to complete an access compliance review and a fire and life safety review prior to approval of individual project drawings and specification documents. Therefore, emergency access on and throughout the campus and general area would be ensured, and implementation of the Campus Master Plan would have no impact on adopted emergency response or evacuation plans.

g. Expose people or structures, either directly or indirectly, to a significant risk of loss, injury or death involving wildland fires.

Wildfire hazards are discussed below in Section 4.13.9, *Wildfire*. The campus is located in an urbanized area with no adjacent wildlands, and is not located in a fire hazard severity zone as shown on California Department of Forestry & Fire Protection's (CAL FIRE) fire hazard severity zone map and on Exhibit 28, *Fire Hazard Severity*, in the Fullerton Plan Natural Environment Element (CAL FIRE 2011; City of Fullerton 2012). The Campus Master Plan would not directly or indirectly expose people or structures to wildfires and no impact would occur.

4.13.5 Hydrology and Water Quality

The CEQA Guidelines Appendix G states that a significant impact on hydrology and water quality may result if the project would:

a. Violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or groundwater quality;

e. Conflict with or obstruct implementation of a water quality control or sustainable groundwater management plan.

Projects under the Campus Master Plan would be required to comply with all applicable stormwater discharge regulations. Potential water quality impacts associated with project construction include

erosion, sedimentation, and potential hazardous material discharge from construction equipment and materials. Projects under the Campus Master Plan would collectively result in land disturbance of more than one acre and would therefore be required to comply with NPDES regulations for construction stormwater discharge, and the development of a SWPPP, required by the Construction General Permit, General Permit Order 2009-0009-DWQ.

The campus, is a Non-Traditional Phase II Small Municipal Separate Storm Sewer System Program (MS4) operator under the CSU systemwide Phase II Stormwater Discharge Permit (Phase II MS4 Permit, Order Number 2013-0001-DWQ) administered by the SWRCB, due to the existing conveyance systems (such as roads with drainage systems, streets/roadways, catch basins, curbs, gutters, and a storm drain system) that serve the campus (CSUF 2018b; CSUF 2019a). As such, the campus is required to comply with LID requirements for all regulated projects—which are defined as projects creating and/or replacing 5,000 sf or more of impervious area – to ensure the implementation of appropriate stormwater BMPs, including but not limited to pollution prevention, post-construction stormwater management programs, and BMP effectiveness assessments. Stormwater retention and treatment features must be designed to capture runoff from the 85th percentile, 24-hour storm event; 80 percent of the annual runoff; or flow from either 0.2 inch per hour rainfall intensity or twice the 85th percentile hourly rainfall intensity as determined by local rainfall records.

CSUF has a campus-wide Storm Water Management Program that includes 12 BMPs, which aim to address stormwater threats from operational and maintenance activities for the campus (CSUF 2018b; CSUF 2019a). Therefore, projects under the Campus Master Plan would require compliance with the NPDES Construction General Permit during construction activities and compliance with CSUF's Storm Water Management Program during use, operation, and maintenance of the CSUF campus under Campus Master Plan full buildout. Compliance with all applicable regulations and measures setting water quality standards and waste discharge requirements ensure the Campus Master Plan would have a less than significant impact.

b. Substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin.

The geography and the CSUF's continued compliance with stormwater runoff regulations would reduce the Campus Master Plan's impact on groundwater resources. The City provides water service to the campus and would continue to do so under the Campus Master Plan. No on-site groundwater wells are proposed as part of the Campus Master Plan; therefore, impacts to groundwater supplies, depletion of aquifer volume, or lowering of the local groundwater table level would be limited to the well field from which the OCWD derives its supplies.

The City receives its water from two main sources: well water from the Lower Santa Ana River Groundwater Basin, which is managed by the OCWD, and imported water from MWD (City of Fullerton 2017). The City is a member agency of MWD, which delivers surface water from the State Water Project and Colorado River. The City has 11 wells, located in the southern sector of the City. Six of these wells are located at the main plant in the City of Anaheim just south of the City boundary. Five of these six wells pump into a forebay before pumping the water into the distribution system. Water pumped from these wells has been naturally filtered as it passes through underlying aquifers of sand, gravel, and soil (City of Fullerton 2017). As of 2015, the City had 32,000 connections, served a population of 140,827 people in a 22.3-square mile service area, and supplied about 27,200 acre-feet (AF) of water from 2014 to 2015, of which about 18,900 AF (or 70 percent) was sourced from groundwater (City of Fullerton 2017).

The Campus Master Plan includes replacement and renovation of several campus facilities, and construction of additional student housing and campus amenities buildings at full buildout as described in Section 2, *Project Description*. All projects under the Campus Master Plan would be within the existing footprint of the developed CSUF campus; therefore, increases in campus water demand would be incremental as phased construction proceeds to accommodate future enrollment growth. Proposed renovation and construction under the Campus Master Plan would be subject to water-efficient plumbing codes and other applicable water-saving measures implemented by the City and MWD. Renovations of existing buildings are likely to achieve significant water savings on a per-capita basis due to the incorporation of modern plumbing codes and low-flow fixtures. Because building renovations would likely reduce per-capita water usage, and because athletic fields would not be created or expanded, increases in water demand are anticipated to primarily consist of indoor water uses associated with new facilities.

CalEEMod was used to estimate the potential net increase in water demand associated with buildout of the Campus Master Plan. As discussed in Section 4.12, *Utilities and Service Systems*, the Campus Master Plan would result in a net increase of approximately 1,570 AFY, with the majority of this increase attributable to proposed student and faculty housing to be constructed under the Campus Master Plan. The Campus Master Plan's anticipated increase in demand would be within the projected 2020 to 2040 demand increases assumed in the City's 2015 UWMP. However, the Campus Master Plan would account for nearly all the anticipated increase in residential, commercial, and institutional/governmental land between 2020 and 2040 assumed in the City's 2015 UWMP (City of Fullerton 2017).

As described in Section 4.12, *Utilities and Service Systems*, the campus is in a portion of Fullerton served by both imported water from MWD and local groundwater (Fullerton n.d.). The City's anticipates purchasing up to 8,667 AFY of imported water from MWD to meet demand through 2040, however this amount is substantially less than the City has historically purchased from MWD and less than its Tier 1 maximum limit of 11,299 AFY accounted for by MWD in its 2015 UWMP (MWD 2016). As such, it is anticipated that future increases in demand would generally be met with additional imported supply from MWD, which would not decrease groundwater supplies or interfere substantially with groundwater recharge.

Section 4.12, *Utilities and Service Systems*, incorporates Mitigation Measures U-1 and U-2, which would require project-specific assessments of water supply availability and outdoor water conservation measures, respectively. Such measures would confirm the adequacy of water supplies prior to construction of individual projects under the Campus Master Plan and reduce potential demand associated with landscaping and irrigation. Finally, pursuant to the requirements of the Sustainable Groundwater Management Act, OCWD recently prepared and submitted an alternative to a groundwater sustainability plan demonstrating that the groundwater basin has operated within its sustainable yield for over a decade and avoided the undesirable effects of groundwater overdraft. The sustainable yield analysis was approved by the DWR in July 2019 (DWR 2019). Given that the Campus Master Plan would be served by existing supplies and/or imported water and the underlying groundwater basin has and continues to operate within its sustainable yield, the Campus Master Plan would not substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the Campus Master Plan may impede sustainable groundwater management of the basin. This impact would be less than significant.

c. Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would:

i. Result in substantial erosion or siltation on- or off-site;

ii. Substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or off-site;

iii. Create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff; or,

iv. Impede or redirect flood flows.

The campus is largely developed with existing academic uses associated with the University. Such uses include substantial impervious surface cover and, consequently, buildout under the Campus Master Plan would not be expected to result in substantial alterations to drainage patterns. As described above and in Section 4.12, *Utilities and Service Systems*, CSUF is regulated under the Phase II MS4 Permit, which requires all regulated projects—defined as projects creating and/or replacing 5,000 square feet or more of impervious area—to incorporate LID measures, including stormwater retention and treatment features. Such stormwater retention features must capture runoff from the 85th percentile, 24-hour storm event; 80 percent of the annual runoff; or flow from either 0.2 inch per hour rainfall intensity or twice the 85th percentile hourly rainfall intensity as determined by local rainfall records. Potential retention features that may be incorporated into individual project designs include detention basins, biofiltration/catchment basins, or constructed wetland features. Given the size of proposed facilities, it is anticipated that all individual projects constructed under the Campus Master Plan would constitute regulated projects under the Phase II MS4 Permit and, therefore, would be required to demonstrate compliance with the stormwater capture requirements described in the permit.

Incorporation of stormwater retention features would reduce potential impacts to the existing or planned stormwater drainage system while also treating runoff through physical (i.e., filtration, settling) and biological (i.e., phytoremediation/plant uptake, microbial treatment) processes. Retention features would also reduce the volume and flow of runoff, minimizing downstream erosion, sedimentation, and flooding impacts. As such, Campus Master Plan impacts related to alteration of drainage patterns would be less than significant.

d. In flood hazard, tsunami, or seiche zones, risk release of pollutants due to project inundation.

The campus is approximately 16 miles inland from the Pacific Ocean, and the City is approximately 150 feet above mean sea level (City of Fullerton 2012). The majority of the campus is not located in a flood zone, according to Exhibit 30, *100 Year and 500 Year Flood Risk*, in the Fullerton Plan Natural Environment Element and the Federal Emergency Management Agency's (FEMA) Flood Insurance Rate Map (City of Fullerton 2012; FEMA 2009). The west boundary of the campus along North State College Boulevard is located in FEMA Zone X, an area with a 0.2 percent annual flood chance. The campus is not in the vicinity of any surface waters that may cause seiches, and earthquake-induced seiches are not considered a risk in the City of Fullerton according to the City's Local Hazard Mitigation Plan (City of Fullerton 2010). Therefore, the Campus Master Plan would not be exposed to impacts from flood, tsunami, or seiche events and there would be no impact.

4.13.6 Land Use and Planning

The CEQA Guidelines Appendix G states that a significant impact on land use and planning may result if the project would:

a. Physically divide an established community.

The campus is located in the eastern portion of the City of Fullerton, adjacent to SR 57 which travels north-south along the eastern city limits. The CSUF campus is located in the Education Focus Area according to The Fullerton Plan and is adjacent to and surrounded by other existing Universities, single- and multi-family neighborhoods, and commercial retail development. The campus is developed with academic, recreational, maintenance, and housing facilities.

The Campus Master Plan includes the replacement and renovation of several campus facilities, and construction of additional student housing and campus amenities buildings at full buildout as described in Section 2, *Project Description*. The redevelopment under the Campus Master Plan would occur entirely within the existing campus footprint and does not propose an extension of campus outside of the existing campus boundaries, nor propose or create the need for new roadways. Utility infrastructure improvements would be temporary and would not encroach or impact existing neighborhoods or the surrounding community.

The on-campus community consists of students (undergraduate and graduate), faculty, and staff. The Campus Master Plan includes renovation and development of specific buildings and facilities on the existing campus which could temporarily impact travel within and use of on-campus facilities. Development under the Campus Master Plan would occur in phases over the planning period as more housing and facilities are needed and in order to maintain all campus functions by developing areas of campus at appropriate and strategic times. Overall, the Campus Master Plan would build upon the existing campus framework and development in order to accommodate increases in enrollment, would improve on-campus amenities, and would not divide the on-campus community. Therefore, the Campus Master Plan would not physically divide the established community and no impact would occur.

b. Cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect.

The City of Fullerton does not have jurisdiction over CSUF; however, CSUF considers aspects of local plans and policies for the communities surrounding the campus when it is appropriate and feasible, although it is not bound by those plans and policies in its planning efforts. CSUF communicates with local organizations, associations, and elected representatives about planning efforts and considers community input.

While the majority of the proposed renovation and construction would be concentrated in the center of campus, some of the changes would occur on the periphery, near campus edges along Nutwood Avenue to the south and North State College Boulevard to the east. Development would be consistent with the area's existing and planned land uses, including commercial, educational, and multi-family housing facilities.

The intensity of use and development on the CSUF campus would increase incrementally throughout the next 20 years. These improvements would be consistent with the overarching land use development goals and vision for both the CSUF campus and the City of Fullerton Education Focus Area. As previously discussed, goals of the Campus Master Plan include improving connectivity and cohesion of physical spaces on campus and strengthen connections to surrounding

off-campus areas, which supports the goal of Education Focus Area to integrate the colleges and universities with the surrounding area. Development under the Campus Master Plan would be consistent with applicable existing City and regional programs, plans, and policies as they relate to transportation or land use. Access and circulation routes into the campus along Yorba Linda Boulevard, North State College Boulevard, and Nutwood Avenue would remain the same. Proposed transit hubs would be harmonious with the Education Focus Area's goal to maintain adequate and managed capacity for parking needs and increasing multi-modal transportation options.

As discussed in Section 4.1, *Aesthetics*, development under the Campus Master Plan would include physical changes to the campus that would alter its visual character and quality and increase overall massing and intensity within the campus. New facilities would not impact scenic views on or off-campus, including those from state scenic highways, and would be constructed in conformance with existing state and CSU guidelines and policies, including the CSU Outdoor Lighting Design Guidelines which state that the lighting aesthetic must compliment the campus architecture and should be consistent between similar areas across the campus. Construction impacts to aesthetics would be temporary and periodic and not substantially impact sensitive viewers. Therefore, the Campus Master Plan would not conflict with local land use policies regarding scenic views or light and glare.

As discussed in Section 4.7, *Noise*, increases in noise levels on surrounding residential properties could result in land use compatibility impacts, but they would be temporary, periodic, and less than significant with mitigation. Additionally, new campus buildings may be exposed to exterior noise levels in exceedance of the City of Fullerton's conditionally acceptable exterior noise level for residential land uses, but mitigation would reduce impacts to less than significant levels. Traffic noise increases would be negligible and would not contribute to a noise level increase that exceeds impact criteria, including under future cumulative conditions.

Therefore, the Campus Master Plan would not cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect, and impacts would be less than significant.

4.13.7 Mineral Resources

The CEQA Guidelines Appendix G states that a significant impact on mineral resources may result if the project would:

a. Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state;

b. Result in the loss of availability of a locally-important mineral resource recovery site delineated on a local general plan, specific plan, or other land use plan.

No portions of CSUF are utilized for mineral extraction. The City of Fullerton does not contain any land uses within City jurisdiction for mining or mineral extraction activities as shown on Exhibit 2, *Community Development Plan*, in the Fullerton Plan Community Development and Design Element (City of Fullerton 2012). The campus is designated as being within Mineral Resource Zone 1 (MRZ-1), which is defined as an area where geological information indicates no significant mineral deposits are present (DOC 1995).

Therefore, implementation of the Campus Master Plan would not result in loss of availability of a known mineral resource or a locally-important mineral resource recovery site delineated on a local general plan, specific plan, or other land use plan, as no known mineral resources are located in the campus (City of Fullerton 2012; DOC 1995). Implementation of the Campus Master Plan would also

not change access or ability to recover known mineral resources in other parts of Orange County. No impacts would occur.

4.13.8 Noise

The CEQA Guidelines Appendix G states that a significant impact on noise may result if the project would:

c. *expose people residing or working in the project area to excessive noise levels for a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport.*

The Campus Master Plan site is located approximately 5.6 miles east of Fullerton Municipal Airport. The Campus Master Plan site is not located within the Airport Land Use Plan and is not within the airport's 65 dBA noise contours (ALUC 2004). Fullerton Municipal Airport is a general aviation use airport and not a private airstrip. There are no private airstrips within the vicinity of the Campus Master Plan. Therefore, the Campus Master Plan would not expose people to excessive noise levels related to airports or private airstrips, and no impacts would occur.

4.13.9 Wildfire

The CEQA Guidelines Appendix G states that a significant impact on wildfire may result if the campus is located in or near state responsibility areas or lands classified as very high fire hazard severity zones and would:

a. *Substantially impair an adopted emergency response plan or emergency evacuation plan;*

b. *Due to slope, prevailing winds, and other factors, exacerbate wildfire risks and thereby expose project occupants to pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire;*

c. *Require the installation or maintenance of associated infrastructure (such as roads, fuel breaks, emergency water sources, power lines or other utilities) that may exacerbate fire risk or that may result in temporary or ongoing impacts to the environment;*

d. *Expose people or structures to significant risks, including downslopes or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes.*

CSUF is not located in a fire hazard severity zone, as shown on California Department of Forestry & Fire Protection's (CAL FIRE) fire hazard severity zone map and on Exhibit 28, *Fire Hazard Severity*, in the Fullerton Plan Natural Environment Element (CAL FIRE 2011; City of Fullerton 2012). Moderate fire hazard severity zones are located approximately one-mile northwest of the campus and high to very high fire severity zones are located in the northwest corner of City boundaries, approximately two to five miles from the campus. There are no fire severity zones in the immediate vicinity of the campus, which is surrounded by existing development.

Implementation of the Campus Master Plan would not impair existing emergency response or evacuation plans, nor require installation or maintenance of infrastructure that would exacerbate fire risks. CSUF is developed with relatively flat topography and proposed uses under the Campus Master Plan would remain the same as current uses (educational institution). No impacts associated with wildfire hazards would occur.

5 Cumulative Impacts

The geographic area that could be affected by the project and is appropriate for a cumulative impact analysis varies depending on the environmental resource topic, as presented in Table 5-1. Local geographic area refers to the immediate campus vicinity (e.g., the plan area and surrounding public viewpoints with respect to aesthetics).

5.1 Introduction to the Cumulative Analysis

This EIR provides an analysis of cumulative impacts of the Campus Master Plan taken together with other past, present, and probable future projects producing related impacts, as required by Section 15130 of the CEQA Guidelines. The goal of such an exercise is twofold: first, to determine whether the overall long-term impacts of all such projects would be cumulatively significant; and second, to determine whether the incremental contribution to any such cumulatively significant impacts by the Campus Master Plan would be "cumulatively considerable," and thus significant (CEQA Guidelines Sections 15130[a]–[b], Section 15355[b], Section 15064[h], and Section 15065[c]; and Communities for a Better Environment v. California Resources Agency [2002] 103 Cal. App. 4th 98, 120). The analysis intends first to create a broad context in which to assess cumulative impacts, viewed on a geographic scale beyond the campus, and then to determine whether the Campus Master Plan's incremental contribution to any significant cumulative impacts from all projects is itself significant (i.e., cumulatively considerable).

Cumulative impacts are defined in CEQA Guidelines Section 15355 as "two or more individual effects which, when considered together, are considerable or which compound or increase other environmental impacts." A cumulative impact occurs from "the change in the environment which results from the incremental impact of the project when added to other closely related past, present, and reasonable foreseeable probable future projects. Cumulative impacts can result from individually minor but collectively significant projects taking place over a period of time" (CEQA Guidelines Section 15355[b]).

Consistent with CEQA Guidelines Section 15130, the discussion of cumulative impacts in this EIR focuses on significant and potentially significant cumulative impacts. Section 15130(b) of the CEQA Guidelines provides, in part, the following:

> The discussion of cumulative impacts shall reflect the severity of the impacts and their likelihood of occurrence, but the discussion need not provide as great detail as is provided for the effects attributable to the project alone. The discussion should be guided by the standards of practicality and reasonableness, and should focus on the cumulative impact to which the identified other projects contribute rather than the attributes of other projects which do not contribute to the cumulative impact.

A project is considered to have a significant cumulative effect if:

- The cumulative effects of development without the project are not significant and the project's additional impact is substantial enough, when added to the cumulative effects, to result in a significant impact; or
- The cumulative effects of development without the project are already significant and the project contributes measurably to the effect.

The term "measurably" is subject to interpretation. The standards used herein to determine measurability are that the impact must be noticeable to a reasonable person or must exceed an established threshold of significance (defined throughout the resource discussions in Section 4 of this EIR).

5.2 Cumulative Setting

5.2.1 Geographic Scope

The geographic area that could be affected by the Campus Master Plan and is appropriate for a cumulative impact analysis varies depending on the environmental resource topic, as presented in Table 5-1. In general, local geographic area refers to the immediate vicinity (e.g., the campus and surrounding public viewpoints with respect to aesthetics). Regional, within the context of this EIR, refers to the County, but could refer to an applicable habitat conservation plan area or other regional plan area.

Table 5-1 Geographic Scope of Cumulative Impacts

Resource Topic	Geographic Area
Aesthetics	Local (plan area and surrounding public viewpoints)
Air Quality	Regional (South Coast Air Quality Management District) Local (immediate vicinity – pollutant emissions that are highly localized)
Archaeological, Historical, and Tribal Cultural Resources	Local (plan area and surrounding communities)
Energy	Regional (SCE energy grid)
Greenhouse Gas Emissions	Global
Hydrology and Water Quality	Regional (watershed and groundwater basin) and Local (campus vicinity)
Noise	Local (immediate campus vicinity)
Population and Housing	Regional and Local (CSUF campus, City of Fullerton, and surrounding communities within County)
Public Services	Local (CSUF campus, City of Fullerton)
Recreation	Local (CSUF campus, City of Fullerton)
Transportation	Regional and Local (CSUF campus, City of Fullerton, and surrounding communities within County)
Utilities and Service Systems	Local (utility service areas)

As noted in Table 5-1, the potential geographic scope of some cumulative effects is more localized than others. To account for both regional and localized cumulative impacts, this EIR uses regional growth projections to assess regionally cumulative impacts and the list method to assess more localized cumulative impacts. Table 5-2 lists past, present, and future development projects in the vicinity of the campus. This list is not intended to be an all-inclusive list of projects in the region, but rather an identification of projects constructed, approved, or under review in the vicinity of the campus that have some relation to the environmental impacts of construction and operation of potential uses associated with implementation of the Campus Master Plan.

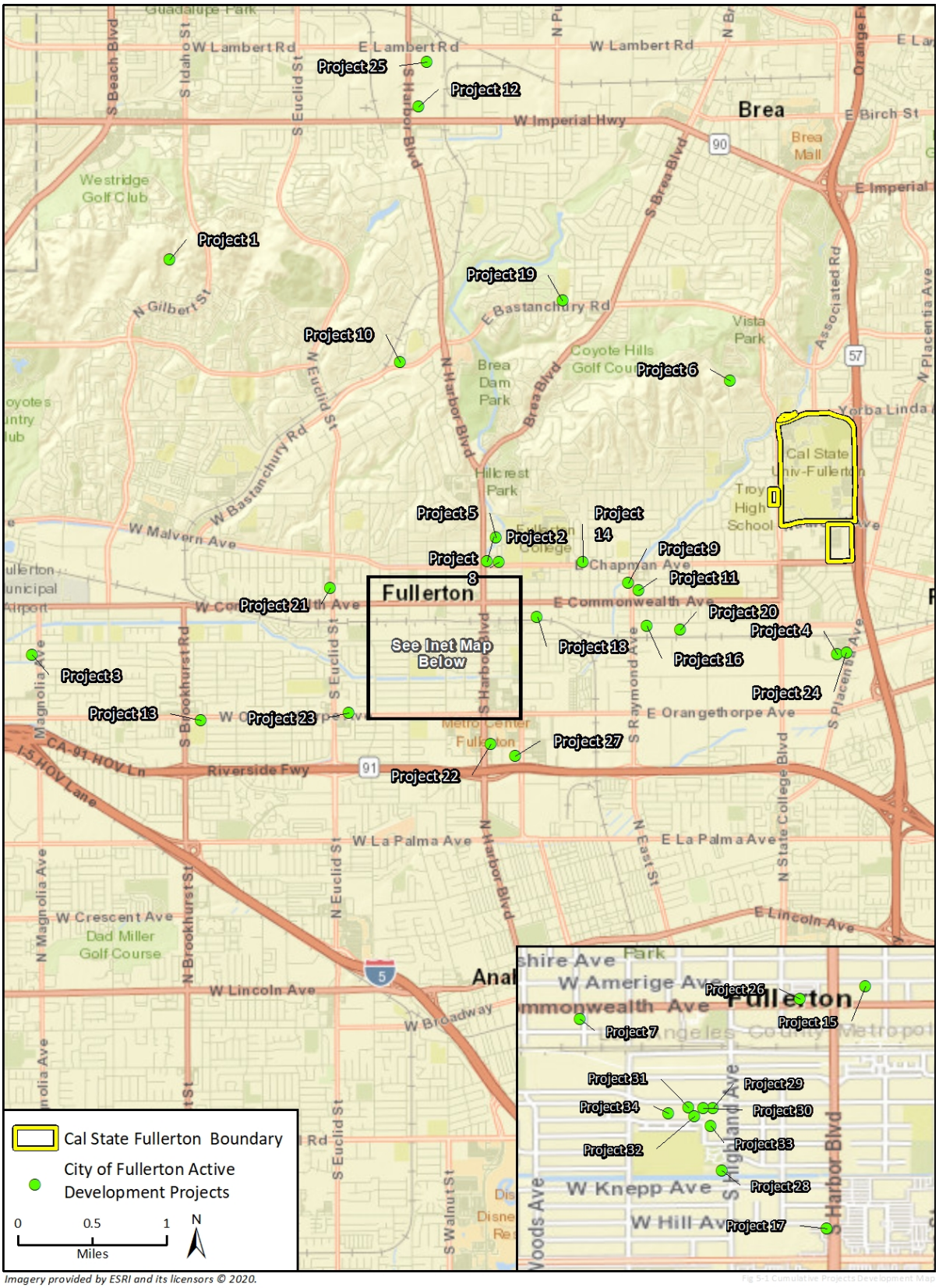
Table 5-2 Cumulative Projects List

Project Number	Project Name	Developed or Proposed Land Use	Size (acreage, sf, or dwelling units)	Status
1	West Coyote Hills	Residential, open space, and commercial	513 acres	Approved
2	Fullerton Fox Theatre on North Harbor Boulevard (Redevelopment)	Commercial	21,025 sf	Design
3	Apartments on Franklin Avenue	Residential	7 units	Construction
4	Retail Construction on S. Placentia Avenue	Gas station, retail	371,000 sf	Construction
5	Apartments on E. Brookdale Place	Residential	9 units	Construction
6	Subdivision on Ladera Vista Drive	Residential	2 single-family lots	Construction
7	Amplifi Apartments	Residential	290 units	Construction
8	Fox Block Mixed Use Development	Residential, retail, office	TBD	Design
9	Raymond and Wilshire Retail Development	Convenience store	2,750 sf	Construction
10	Oakmont Residential Care Facility	Residential	95 units	Construction
11	Shopping Center Remodel on Raymond Avenue and Commonwealth Avenue	Retail	50,000 sf	Construction
12	Shopping Center Remodel at North Harbor Boulevard	Retail	104,000 sf	Plan review
13	Commercial Remodel on West Orangethorpe Avenue at Pacific Drive	Retail	9,600 sf	Planned for construction
14	New Medical Office	Medical office	2,245 sf	Planned for Construction
15	New Office Building on East Amerige Avenue	Office	27,000 sf	Application review
16	New Industrial Building on East Walnut Avenue	Industrial	36,750 sf	Plan review
17	New drive-through Coffee Shop on South Harbor Boulevard	Commercial	3,000 sf	Planned for construction
18	Affordable Apartments on East Santa Fe Avenue	Residential	55 units	Plan review
19	Residential Condos on East Bastanchury Road	Residential	33 units	Application review

Project Number	Project Name	Developed or Proposed Land Use	Size (acreage, sf, or dwelling units)	Status
20	Industrial Reuse on East Walnut Avenue	Industrial	118,480 sf	Plan review
21	New Commercial Building on North Euclid Street	Commercial	3,242 sf	Planned for construction
22	The Broken Yolk Restaurant	Commercial	4,966 sf	Planned for construction
23	New Restaurant and Commercial Building on West Orangethorpe Avenue	Commercial	4,594 sf	Planned for construction
24	Farmer Boys Restaurant	Commercial	3,207 sf	Planned for construction
25	Beckman Business Center	Industrial	900,000 sf	Construction
26	Commercial Façade Remodel on West Commonwealth Avenue	Commercial	5,000 sf	Planned for construction
27	Bowlero-Bowling Alley on South Harbor Boulevard (Redevelopment)	Commercial	40,610	Planned for construction
28	Melia Homes New Multi-Family Development	Residential	19 units	Plan review
29	Affordable Apartments on West Valencia Drive	Residential	5 units	Construction
30	Affordable Housing on West Valencia Drive	Residential	5 units	Construction
31	Affordable Apartments on West Valencia Drive	Residential	17 units	Construction
32	Affordable Apartments on West Avenue	Residential	2 units	Construction
33	Affordable Apartments on South Ford Avenue	Residential	17 units	Construction
34	Habitat for Humanity Residential Development	Residential	12 units	Construction

Note: sf= square feet
Source: City of Fullerton 2020

Figure 5-1 Cumulative Project Development Map



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Additional data provided by City of Fullerton, 2019.

Fig 5-1 Cumulative Projects Development Map

5.3 Analysis of Cumulative Impacts

5.3.1 Aesthetics Effects

The cumulative context for aesthetic resource impacts for the Campus Master Plan include the existing and planned land uses on and around the campus, including in the City of Fullerton. Development of past and current projects and future projects continue to alter the visual environment of the City and the surrounding area. The projects listed in Table 5-2 represent development and redevelopment resulting in physical changes that would create cumulative aesthetic impacts to the City of Fullerton in combination with development facilitated by the Campus Master Plan.

The largest projects, such as Project 1, Project 12, and Project 25 included in Table 5-2,would have the most potential to cause aesthetic impacts. However, these projects are not located in the vicinity of CSUF and not visible from public vantage points on or adjacent to campus, and not located in the same viewshed. Development projects in the City of Fullerton are required to comply with the policies concerning community character, design, and aesthetics of the Fullerton Plan, the City's Municipal Code, and the City's Scenic Corridor Design Guidelines. This provides a framework for future development to enhance community cohesion and visual identity, ensure design compatibility, strengthen linkages between the universities and surrounding community, and preserve natural amenities and views.

The Campus Master Plan would not significantly contribute to cumulative impacts concerning scenic views or visual character in combination with the projects listed in Table 5-2. As discussed in Section 4.1, *Aesthetics*, development under the Campus Master Plan would not impede or degrade views from scenic highways or roadways, or scenic views of or from the distant mountains or hillsides. Cumulative impacts would be less than significant with respect to scenic views or visual character.

Cumulative effects of lighting are visible over a wide area, and collective lighting from development in close proximity can create skyglow, which would be a significant cumulative impact. The campus and surrounding areas are located in a built, urban setting and experience lighting in the form of streetlights, illumination for paths, buildings, and other facilities and structures. As described in Section 4.1, implementation of the Campus Master Plan would introduce new lighting sources; however, these sources would be similar to existing sources, and lighting regulations under CalGreen would limit light trespass and glare on nonresidential development in and around CSUF. As shown in Figure 5-1 above, surrounding projects are spread out throughout the City, not located in the immediate vicinity of CSUF, and would not concentrate light in a single area where CSUF is located. Therefore, cumulative impacts to skyglow would be less than significant.

5.3.2 Air Quality Effects

The cumulative context for air quality is regional. The SCAB is designated a nonattainment area for the federal and state one-hour and eight-hour ozone standards, the state PM_{10} standards, the federal 24-hour PM2.5 standard, and the federal and state annual $PM_{2.5}$ standard. SCAB is in attainment of all other federal and state standards. The Campus Master Plan would contribute particulate matter and the ozone precursors ROG and NO_X to the area during construction and operation. As described under Impact AQ-2, in Section 4.2, *Air Quality,* regional emissions during construction would not violate an air quality standard or contribute substantially to an existing or projected air quality violation; and would be less than significant. With respect to localized impacts,

the consideration of cumulative construction particulate matter impacts is limited to cases when projects constructed simultaneously are within a few hundred yards of each other because of: (1) the combination of the short range (distance) of particulate dispersion (especially when compared to gaseous pollutants); and (2) the SCAQMD's required dust control measures which further limit particulate dispersion from a project site. Therefore, with the implementation of dust control measures, the unlikelihood that construction would occur within a few hundred yards of major off-site construction, and compliance with SCAQMD regional construction emission thresholds, the Campus Master Plan would not contribute a cumulatively considerable amount of pollutants from construction emissions.

As discussed in Section 4.2, *Air Quality* under Impact AQ-1 and Impact AQ-2, the Campus Master Plan would exceed operational ROG emissions thresholds, mostly due to consumer product use, and NO_X emission thresholds, mostly from vehicle trips, and thereby conflict with the adopted AQMP. Therefore, the Campus Master Plan would contribute an amount of operational pollutants that would be cumulatively considerable to the cumulative impacts of the SCAB. Mitigation Measure AQ-1 would reduce ROG emissions, but these reductions would depend on individual consumer behavior that is not quantifiable at this stage of planning, and feasible mitigation measures that would expand upon the Campus Master Plan's TDM are not available to reduce mobile NO_X emissions. Therefore, the Campus Master Plan's operational emissions would exceed SCAQMD regional thresholds after mitigation and would contribute a significant and unavoidable cumulative considerable amount of pollutants to the SCAB's cumulative impact.

As identified in Section 4.2, *Air Quality,* under Impact AQ-3, the Campus Master Plan would not have a significant impact from CO hotspots, or TACs. Discussion of these impacts considers the cumulative nature of the pollutants in the region; e.g., the cancer risk and non-cancer risk thresholds have been set per existing cancer risks in the area and exceeding those thresholds would be considered a cumulative impact. As the Campus Master Plan does not exceed those thresholds, it would not expose sensitive receptors to a cumulatively considerable amount of substantial pollutant concentrations from CO hotspots or TACs.

As identified in Section 4.2, *Air Quality,* under Impact AQ-4, the Campus Master Plan would not have a significant impact from odor emissions. The consideration of cumulative odor impacts is limited to cases when projects constructed simultaneously are within a few hundred yards of each other because of the short range of odor dispersion. It is unlikely that Campus Master Plan construction would occur within a few hundred yards of major off-site construction, and odors from other projects would also be subject to SCAQMD Rule 402 Nuisance. Therefore, the Campus Master Plan would not result in a cumulatively considerable odor impact.

5.3.3 Cultural Resources Effects

Historic Resources

Cumulative development in the Campus Master Plan area would alter areas that contain and may contain historical resources, including an eligible historic district with associated site plan features, circulation corridors, and landscaping/hardscaping. There are 13 buildings on the CSUF campus as of 2020 that appear eligible for listing on the NRHP and CRHR. As part of the Campus Master Plan, several historical resources would undergo renovation and/or replacement, and new buildings would be constructed adjacent to historic resources. There is the potential for significant cumulative impacts to historic resources through renovation and/or replacement of historical resources and

through additional new construction within the CSUF campus. Therefore, full build-out of the Campus Master Plan could result in significant cumulative historic resource impacts.

Archaeological Resources & Human Remains

Although no archaeological resources have been identified in the Campus Master Plan area and are not anticipated for other cumulative projects listed in Table 5-2, cumulative development in the vicinity of the campus would disturb areas that may potentially contain previously unknown archaeological resources and/or human remains. While there is the potential for significant cumulative impacts to cultural resources within the vicinity of the campus, it is anticipated that potential impacts associated with individual development projects would be addressed on a case-by-case basis, and that cumulative development projects would be required to comply with similar mitigation described herein for the Campus Master Plan. In addition, as discussed above, archaeological resource and human remain impacts of the Campus Master Plan can be reduced to less than significant impact levels with incorporation of Mitigation Measures CUL-2 and CUL-3. Therefore, significant cumulative impacts on archaeological resources and human remains are not anticipated.

Tribal Cultural Resources

Although no tribal cultural resources have been identified in the Campus Master Plan area and are not anticipated for other cumulative projects listed in Table 5-2, the potential exists for cumulative development projects to encounter subsurface archaeological resources that may be considered tribal cultural resources. The reduction of tribal cultural resources in the traditional Gabrieleño/Tongva Nation territory caused by cumulative development in the region could result in a significant cumulative impact.

It is anticipated that cumulative development projects would be required to comply with similar mitigation described herein for the Campus Master Plan. In addition, compliance with AB 52 and continued involvement by local Native Americans in regional planning would generally reduce the destruction of tribal cultural resources such that cumulative impacts would be minimized. As such, cumulative impacts to tribal cultural resources would not be significant.

As discussed under Impact TCR-1, no tribal cultural resources have been identified at the campus. Potential impacts to previously unidentified tribal cultural resources would be reduced to a less than significant level with implementation of Mitigation Measures CUL-2 and CUL-3. As implementation of these measures would minimize adverse effects on any potential tribal cultural resources, the Campus Master Plan's contribution to this impact would not be cumulatively considerable.

5.3.4 Energy Effects

The Campus Master Plan would involve the use of energy during the construction and operational phases. Energy use during the construction phase would be in the form of fuel consumption (e.g., gasoline and diesel fuel) to operate heavy equipment, light-duty vehicles, and machinery. In addition, temporary grid power may also be provided to any construction trailers or electric construction equipment. Long-term operation of the Campus Master Plan would require permanent grid connections for electricity and natural gas service to power internal and exterior building lighting, and heating and cooling systems.

Several other planned and approved projects identified in Table 5-2 would also receive electricity and natural gas service provided by SCE and SCG. The projects would also consume energy related

to transportation (i.e., gasoline and diesel fuel consumption for passenger vehicles, trucks, buses, and other vehicles) and construction. These projects would be required to comply with the CEC and implement energy efficiency measures to reduce energy demand from buildings. Additionally, they would likely implement similar transportation demand management considerations to reduce vehicle trips and miles traveled, thus reducing fuel consumption. Given the above considerations, there is no evidence suggesting that the implementation of cumulative development would result in wasteful or inefficient use of energy. This impact would be less than significant.

5.3.5 Geology and Soils Effects

Geologic and soils impacts are site-specific rather than regional in nature and any development occurring on campus would be subject to, at minimum, uniform site development and construction and regulatory standards relative to seismic and other geologic conditions that are prevalent within the region, such as the California Building Code standards. Cumulative geology and soils impacts would be less than significant.

5.3.6 Greenhouse Gas Effects

The impact of GHG emissions generated by the Campus Master Plan, discussed under Impact GHG-1 in Section 4.5, *Greenhouse Gas Emissions,* is inherently cumulative. GHG emissions from one project cannot, on their own, result in changes in climatic conditions; therefore, the emissions from any project must be considered in the context of their contribution to cumulative global emissions, which is the basis for determining a significant cumulative impact, as noted in Section 4.5.

Projected GHG emissions associated with the Campus Master Plan construction and operation would exceed project-specific thresholds, mainly due to mobile emissions. Therefore, the Campus Master Plan would conflict with emissions reduction plans and goals of the state 2017 Scoping Plan, Executive Order B-55-18, and the ACUPCC.

Implementation of Mitigation Measure GHG-1 would reduce GHG emissions through creation and implementation of a GHG Reduction Plan. At this stage of planning, it is unknown what exact measures would be implemented as part of the plan and therefore reductions are not quantifiable at this time. In addition, it is unknown if the measures would be able to reduce emissions to below the applicable thresholds due to the majority of the emissions coming from mobile emissions. Although project design features include TDM implementation that would have the effect of reducing mobile trips that was not included in modeling, ultimately vehicle emissions depend on individual transportation choices that CSUF would not have full control over. Therefore, impacts from GHG emissions would be significant and unavoidable even with mitigation, and the Campus Master Plan would result in a significant and unavoidable cumulatively considerable impact to GHG emissions.

5.3.7 Noise Effects

Short-Term Cumulative Construction Phase Impacts

Construction-related noise and vibration are typically considered localized impacts, affecting only receptors closest to construction activities. Therefore, unless construction of cumulative projects, including those proposed under the Campus Master Plan, occur in close proximity to each other (i.e., less than 500 feet), and simultaneously, noise and vibration from individual construction projects have a small change of combining to create significant cumulative impacts. There are no

projects planned or currently under construction within 500 feet of CSUF. Thus, cumulative noise and vibration impacts from construction are less than significant.

Noise and vibration associated with the construction of new buildings and campus facilities associated with the Campus Master Plan would be intermittent, temporary, and would fluctuate over the course of Campus Master Plan implementation, as new buildings are constructed and existing buildings are maintained and repaired. Mitigation measures have been identified to help reduce noise from construction equipment. Additionally, mitigation measures are in place that would limit construction noise to less-sensitive times of the day, and construction activities would implement construction noise and vibration reducing measures that would minimize construction noise and vibration.

Given that construction activities associated with the Campus Master Plan would be dispersed throughout the entire campus, none of the off-campus projects that are listed in Table 5-2 are located within 500 feet of the Campus Master Plan area. Construction activities would not combine with construction noise and vibration from other construction activities in the area to result in a substantial increase in cumulative noise and vibration levels. Additionally, as on-campus projects listed in Table 5-2 would likely be completed by the time construction under the Campus Master Plan occurs, the potential for construction-generated noise of those projects are not cumulatively considerable with the Campus Master Plan.

Long-Term Cumulative Operational Traffic Noise Impacts

As discussed in Section 4.7, *Noise*, the Campus Master Plan's traffic noise increases would be negligible and would not contribute to a noise level increase that exceeds impact criteria, including under future cumulative conditions. Furthermore, based on the development projects listed in Table 5-2, vehicle roadway volumes are not anticipated to substantially increase, thus reducing the potential for cumulative roadway noise impact. Even though traffic in the vicinity of the campus would gradually increase over the course of development of the Campus Master Plan, the contribution would not be cumulatively considerable.

New development associated with the related projects listed in Table 5-2 as well as the Campus Master Plan, would include stationary equipment associated with new event facilities, parking facilities, and building mechanical equipment. However, noise from these projects would be localized and would not combine with noise sources from other related projects in the Campus Master Plan area due to a minimum 500-foot distance between sources. Additionally, mitigation is included as part of the Campus Master Plan that would require event facilities, parking structures, and stationary equipment to be designed and located in such a way that noise is minimized at the nearest receptors. Operational stationary noise sources would not combine with other area sources to result in a substantial increase in cumulative noise and vibration. Cumulative impacts would be less than significant.

5.3.8 Population and Housing Effects

As described in Section 4.8, *Population and Housing*, population in the County of Orange is anticipated to increase by approximately eight percent by the year 2040, with the population of the City of Fullerton anticipated to increase by approximately 14,800 residents during that time. Implementation of the Campus Master Plan would allow a substantial increase in student and faculty growth, which could be considered growth inducing. However, the Campus Master Plan would accommodate an increase in on-campus housing which would reduce the demand for off-campus housing.

The addition of on-campus student and faculty/staff housing would increase the housing stock to accommodate approximately 50 percent of the projected number of new residents and would reduce the need for students to commute to campus. Policy P17.10 of the Fullerton Plan, *Housing to Support Educational Facilities*, addresses the city's desire and cooperation to accommodate the student and faculty/staff population growth associated with educational institutions, and provides policies that direct infill development and affordable housing as this type of development would reduce potential for displacement. The projects listed in Table 5-2 would contribute an additional 2 single-family, 471 multi-family housing units, and 95 residential care facility beds, to the housing stock in the City of Fullerton. The Campus Master Plan, in combination with the other planned residential development projects in the area (as listed in Table 5-2), would result in beneficial cumulative impacts associated with the local housing stock and affordability.

Consistent with SCAG's RHNA, future growth is expected to occur in the City of Fullerton and region-wide over the course of the Campus Master Plan planning period, the contribution would not be cumulatively considerable. Based on SCAG's projections, the addition of 8,000 residents under the Campus Master Plan would account for less than one percent of the total area population by 2040 and would not result in substantial unplanned growth. With an average of 2.95 residents per household, and one resident per residential care facility bed, we can anticipate that the probably future residential projects listed in Table 5-2 would add an additional 1,490 residents to the City of Fullerton (DOF 2019). This cumulative increase is not substantial or unplanned. Population and housing impacts related to implementation of the Campus Master Plan would not result in a considerable contribution to cumulative population and housing impacts and impacts would be less than significant.

5.3.9 Public Services Effects

Under existing conditions, public services are provided in the plan area and surrounding area by multiple agencies, including the FPD, UPD, OCSCD, and the FFD. As noted by the projects listed in Table 5-2, cumulative development in the region continues to increase the concentration of people and structures within these local public service jurisdictions which in turn increases demand for such services.

The projected 8,000 resident increase in population created by the Campus Master Plan would continue the trend of increasing the demand for public services and could combine with other proposed development projects within the City listed in Table 5-2 to result in a cumulative increase in demand for public services such that new or physically altered governmental facilities would be required to maintain acceptable service ratios, response times, or other performance objectives and the construction of which could cause significant environmental impacts.

The new development and growth detailed in Section 4.8, *Population and Housing*, would occur in existing developed areas where adequate public services currently exist. To the extent that any potential expansion of public facilities is required to accommodate new development and growth in the area, it is reasonable to assume that these would be expansions of existing facilities. As noted in Section 4.9, *Public Services*, the incremental contribution to the demand for new fire and police protection services and library services would be offset by payment of proportionate property taxes and sales taxes to the City of Fullerton or surrounding jurisdictions. The City of Fullerton's ongoing budget process assesses the needs for FFD, FPD, and Fullerton Library service and infrastructure to meet goals and standards. Therefore, cumulative impacts with respect to fire and police protection facilities and library facilities would be less than significant.

Development projects listed in Table 5-2 would also be required to pay impact fees consistent with local jurisdiction requirements to ensure the adequate provision of future facilities associated with public services, including schools. Therefore, cumulative impacts to public services would be less than significant.

5.3.10 Recreation Effects

The geographic context for analysis of cumulative impacts to recreational facilities includes the City of Fullerton and CSUF. Local development has resulted in an increase in demand for recreational resources throughout the region. As discussed in Section 4.10, *Recreation*, the Campus Master Plan would improve recreational opportunities compared to existing conditions and would provide adequate recreational opportunities for students and local residents.

Implementation of the Campus Master Plan and the associated increase in population would result in an increase in the demand for recreational resources. Combined with other projects within the City of Fullerton and surrounding areas, as listed in Table 5-2, development of the Campus Master Plan may result in cumulative impacts to recreational facilities in the City through the increase in demand. The existing park-to-population ratio is approximately 6 acres per 1,000 residents. The forecasted 2040 population of the City of Fullerton is 160,500, which includes the residential projects listed above in Table 5-2, and the anticipated student and faculty/staff increase under the Campus Master Plan. With 160,500 residents, the City's anticipated park-to-population ratio would be 5.34 acres per 1,000 residents, above its park-to-population goal of 4 acres per 1,000 residents. Therefore, the City is not at risk of falling below its standards for park service.

Policy P15.10 under Fullerton Plan and Municipal Code Chapter 21.12, which establishes the use of development impact fees to provide for the acquisition, development, and improvement of public parks and recreational facilities in the City, would offset maintenance needs caused by cumulative increased use. Although development under the Campus Master Plan would increase the use of on-campus and off-campus parks and recreational facilities, existing plans and policies would allow for their continued maintenance. Additionally, the increase in on-campus open space and recreational facilities would offset impacts from the population increase. The preservation, maintenance, and development of new facilities in the Arboretum, and the construction of a new event center, would generate new opportunities for areas of regional recreation. Therefore, the Campus Master Plan would result in less than significant cumulative impacts to existing neighborhood and regional parks or other recreational facilities.

5.3.11 Transportation Effects

The 2040 OCTAM model was used to calculate the VMT per Service Population for the City of Fullerton to assess cumulative impacts. The cumulative scenario is consistent with the SCAG RTP/SCS. The 2040 OCTAM model was modified to include the Campus Master Plan to evaluate cumulative effect on citywide VMT under the Cumulative Plus Project scenario. The same assumptions were included in the OCTAM model for the Cumulative Plus Project scenario.

VMT was estimated using the boundary method. This was completed by selecting all roadway segments in the OCTAM model within the City of Fullerton boundary, and multiplying the number of trips on each roadway segment by the length of that roadway segment.

Table 5.3 Cumulative Vehicle Miles Traveled

Study Area	VMT Per Service Population
Existing (City of Fullerton)	22.24
Cumulative (City of Fullerton)	13.19
Cumulative Plus Project	12.86
SCAG RTP/SCS Baseline Target[1]	20.59
SCAG RTP/SCS Plan Target[2]	19.97
Targets Exceeded?	**No**

[1] According to the 2016 SCAG RTP/SCS, the plan has a target performance result of reducing VMT by 7.4 percent for the region by 2040 between base year (2012) to the 2040 baseline year, which represents a future in 2040 in which only the following have been implemented: transportation projects currently under construction or undergoing right-of-way acquisition; those transportation programs and projects programmed and committed to in the 2015 FTIP; and/or transportation projects that have already received environmental clearance (SCAG 2016).

[2] The plan has a target performance result of reducing VMT by 10.2 percent in the event that all transportation investments and strategies detailed in the 2016 RTP/SCS are fully realized (SCAG 2016).

Source: Fehr & Peers 2019 (Appendix M)

As shown in Table 5.3, the citywide VMT per Service Population under the Cumulative Plus Project scenario would not exceed the SCAG RTP/SCS 2040 VMT reduction targets under 2040 baseline or plan scenarios. Project-generated VMT per Service Population would not cause total citywide VMT to exceed the SCAG's 2040 target forecasts. Therefore, the Campus Master Plan would have a less than significant cumulative impact.

5.3.12 Utility and Service Systems Effects

The cumulative context for water supply/treatment/distribution and wastewater collection/treatment is based on the various agreements between CSUF, the City of Fullerton, and the surrounding region. The cumulative context for solid waste is the City, and the cumulative context for electricity and natural gas facilities is the service area for each utility.

Water

As the local water purveyor, the City of Fullerton is responsible for supplying potable water to all residential, commercial, industrial, and fire protection uses within its service area, including the campus. Cumulative development in the Fullerton service area would continue to increase demands on water supplies. By 2040, the City anticipates a total normal year demand of 28,891 AFY, an increase of 2,192 AFY from the anticipated 2020 demands (City of Fullerton 2017). This anticipated increase in demand is based on planned growth within the City's water service area. As demonstrated in Impact U-5, the Campus Master Plan would account for a substantial portion of the anticipated growth in residential, commercial, and institutional/governmental water demand between 2020 and 2040, as projected in the City's 2015 UWMP. However, even conservative estimations do not exceed growth that has been accounted for in the City's 2015 UWMP, and the inclusion of State and CSU mandated water conservation policies would further decrease water demand rates. Therefore, cumulative impacts to water supply would be less than significant.

Wastewater

OCSD's two wastewater treatment plants serve a 479-square mile area covering central and northwest Orange County (OCSD n.d.). OCSD's Treatment Plant No. 2 would receive wastewater flows from the Campus Master Planand, consequently, it would not contribute to capacity constraints at wastewater treatment facilities outside of OCSD's service area. Impacts would be cumulatively significant if cumulative development in the service area would exceed the capacity of OCSD's Treatment Plant No. 2.

As described in Impact U-1, Treatment Plant No. 2 in Huntington Beach currently treats approximately 127 MGD of wastewater and has a capacity to treat up to 168 MGD, resulting in an excess capacity of approximately 41 MGD.

Planned, pending, and reasonably foreseeable development would continue to increase demands on the existing wastewater treatment and conveyance facilities in the OCSD service area. However, the Campus Master Plan would account for approximately two percent of the remaining capacity at Treatment Plant No. 2. As described in OCSD's Wastewater Collection and Treatment Facilities Master Plan, total influent to OCSD facilities has dropped substantially since 2005, and capacity is no longer the driving factor behind OCSD's capital improvements plan. Furthermore, future projects would be required to obtain commitments from OCSD to provide wastewater treatment services prior to construction, which would be dependent on remaining treatment capacity at OCSD's treatment facilities. Given that the Campus Master Plan would use a nominal fraction of remaining capacity at Treatment Plant No. 2 and that wastewater influent to OCSD facilities is substantially less than previous high flows recorded in the early 2000s, cumulative impacts associated with wastewater services would be less than significant.

Stormwater

Cumulative development and redevelopment projects in the vicinity of the campus would increase impervious surface area, thereby potentially increasing surface water runoff and associated pollutant loading to waterbodies.

All cumulative development projects would be subject to the requirements of the applicable MS4 permit; projects on the CSUF campus as part of the Campus Master Plan would be required to comply with the statewide Phase II MS4 Permit, while projects off-campus would be subject to the Waste Discharge Requirements for the County of Orange, Orange County Flood Control District, and the Incorporated Cities of Orange County within the Santa Ana Region Areawide Urban Stormwater Runoff (Order No. R8-2009-0030). Both permits require best management practices to capture and treat on-site stormwater runoff for new development and significant redevelopment projects. As a result, on-site stormwater detention infrastructure would expand incrementally with the pace of development in the watershed, reducing peak flows and minimizing the need for new, expanded, or relocated stormwater drainage facilities elsewhere. As such, cumulative impacts to stormwater drainage would be less than significant.

Solid Waste

Planned, pending, and reasonably foreseeable future development in the Frank R. Bowerman Landfill wasteshed would result in increased solid waste generation. As discussed in detail under Impact U-4, the Frank R. Boweran Landfill is anticipated to reach its maximum permitted capacity in 2053 (CalRecycle 2019b) and has a maximum permitted daily throughput of 11,500 tons per day. This equates to an annual maximum throughput of approximately 4,197,500 tons per year. All Once

operational, the Campus Master Plan would account for less than 0.1 percent of this annual throughput. In addition, compliance with applicable solid waste regulations would maintain or improve upon solid waste diversion rates. As per the CSU Sustainability Policy, CSUF must achieve an 80 percent reduce waste diversion rate by the year 2020 and continue toward zero waste by 2040. This would effectively result in a decrease in the total amount of CSUF related solid waste, including that associated with the Campus Master Plan disposed of at landfills in the short-term, and no contribution to landfill volumes in the long term. Cumulative development in the region outside the CSUF campus, as listed in Table 5-2, would result in additional increases in solid waste generation and these projects would be subject to local solid waste diversion programs and requirements. For example, AB 939 requires cities to divert 50 percent of solid waste from landfills. Given the nominal fraction of annual throughout accounted for by the Campus Master Plan and local, regional, and statewide efforts to improve solid waste diversion rates, cumulative impacts to solid waste facilities would be less than significant.

Electric Power and Natural Gas Facilities

As noted in Section 4.12, *Utilities and Service Systems,* CSUF is serviced by SCE and SCG. As development within an area occurs, such as the projects listed in Table 5-2, these service providers typically incorporate their development into their assessment of infrastructure. Development under the Campus Master Plan, in combination with projects listed in Table 5-2, would result in an increase in electrical, and natural gas demands. However, during service provider assessments, utility providers periodically consider the need to purchase more resources and upgrade/expand infrastructure. In addition, CSUF is working towards increasing self-generated energy by exploring options such as investing in battery energy storage. With inclusion of relevant mitigation measures and compliance to state and federal laws, effects from infrastructure improvements would be less than significant.

Telecommunication

The Campus Master Plan does not include any major telecommunications improvements. Minor telecommunications improvements, such as undergrounding of telephone lines or rewiring of existing buildings may occur as part of individual projects under the Campus Master Plan or cumulative development projects. However, cumulative projects would each be required to provide adequate telecommunications infrastructure upgrades and would be subject to the appropriate level of environmental review. As with the Campus Master Plan, such upgrades would typically be expected to occur within the development footprints of other cumulative projects. Therefore, cumulative impacts related to telecommunications infrastructure would be less than significant.

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6 Other CEQA Required Discussions

This section discusses growth-inducing impacts and irreversible environmental impacts resulting from the Campus Master Plan.

6.1 Growth Inducement

Section 15126(d) of the CEQA Guidelines requires a discussion of a proposed project's potential to foster economic or population growth, including ways in which a project could remove an obstacle to growth. Growth does not necessarily create significant physical changes to the environment. However, depending upon the type, magnitude, and location of growth, it can result in significant adverse environmental effects. The Campus Master Plan's growth inducing potential is therefore considered significant if project-induced growth could result in significant physical effects in one or more environmental issue areas.

6.1.1 Population Growth

As discussed in Section 4.8, *Population and Housing,* the surrounding region is anticipated to increase by approximately 80,100 residents between 2020 and 2040. The City of Fullerton is anticipated to grow by approximately 14,800 residents between 2020 and 2040. Existing and projected city populations were taken from SCAG, growth forecasts (2016). Table 4.8-2 summarizes anticipated population growth for the City of Fullerton and surrounding cities.

As discussed in Section 4.8, *Population and Housing*, the Campus Master Plan would accommodate the planned incremental increase of 7,000 FTES and 1,000 faculty/staff by 2040. To accommodate this increase, the Campus Master Plan would direct the development of additional on-campus student and faculty/staff housing which would reduce the need for students, faculty and staff to seek off-campus housing. Additionally, the increase of 7,000 FTES is included in the SCAG population forecasts for the region and City of Fullerton. Therefore, the Campus Master Plan would not generate unplanned population growth in the City of Fullerton and the region.

With respect to employment growth, the Campus Master Plan would accommodate the planned increase of approximately 1,000 faculty/staff; partially through the development of on-campus housing for 350 faculty/staff and their families. Other faculty/staff can be accommodated by the existing and planned housing stock in the City of Fullerton and surrounding communities. Given the above considerations, the Campus Master Plan would not generate a need for construction of new off-campus housing beyond what is already anticipated in the SCAG city and regional forecasts.

The Campus Master Plan would not involve the extension of roads and utility infrastructure as no new development is proposed outside of the existing campus footprint. As discussed in Section 4.9, *Public Services*, Section 4.10, *Recreation*, Section 4.12, *Utilities and Service Systems,* development of the Campus Master Plan would not result in the need for new or expanded infrastructure related to police or fire protection services, schools, parks, libraries, medical services, water or wastewater treatment service, solid waste disposal, or other utility systems due to population growth. As a result, population growth resulting from the Campus Master Plan would not result in significant physical impacts due to potential increase in public services or the use of public infrastructure.

6.1.2 Economic Growth

Implementation of the Campus Master Plan would generate temporary employment opportunities during construction of individual buildings and projects. Because construction workers would be expected to be drawn from the existing regional work force, construction of the Campus Master Plan would not be considered growth-inducing. However, the Campus Master Plan would add long-term employment opportunities in the region associated with growth and operation of the CSUF campus. Table 6-1 shows the potential increase in employment.

Table 6-1 Employment Increase Resulting from the Campus Master Plan

Commercial Land Use	Amount	Employment Density	Total
Campus Master Plan			
Government Office[3]	115.6 acre[1]	48.9 employees/acre[2]	5,653[4]
Subtotal			5,653

[1] The Campus Master Plan has an added square feet value of 5,044,111 sf. The added acreage was found converting the proposed square feet into acres.

[2] SCAG Employment Density Study, 2001, Table 3, Orange County, file:///C:/Users/bweatherby/Downloads/SCAG%20Employment%20Density%20Report.pdf

[3] The City of Fullerton designates CSUF as a Public-Land use (P-L). Therefore, acreage values were taken from SCAG's public land use category. SCAG does not include a sub land use category for university of educational institution. Government office will be used in lieu of no educational sub land use category.

[4] Total has been rounded up to nearest whole number.

Note: 43,650 square feet = 1 acre

The proposed added square feet as a result of the Campus Master Plan would be approximately 5,044,111. To obtain the proposed acreage of the Campus Master Plan, square feet was converted into acres. One acre equates to 43,560 square feet, thus resulting in a total acreage of 115.6 acres. The City of Fullerton designates CSUF as a Public-Land use (P-L). To find the number of employees per acre, values were obtained using SCAG's General Plan Employment Density Report for Orange County, under the land use category of Public Land. Additionally, no sub-category of educational institution was included in SCAG's report. Therefore, values were pulled from Government Office under the Public Land category.

As discussed in Section 4.8, *Population and Housing*, the Campus Master Plan would not be expected to induce substantial economic expansion to the extent that direct physical environmental effects would result as the anticipated employment growth is anticipated in regional forecasts. Buildout of the Campus Master Plan is expected to contribute heavily to the City's economy and be a large source of employment to the City and the surrounding region. SCAG forecasts that 16,100 jobs will be added in Fullerton between 2020 and 2040 (SCAG, 2016). The jobs anticipated by the Campus Master Plan would account for approximately 35 percent of job growth between 2020 and 2040 and, therefore, would be well within employment forecasts.

6.1.3 Removal of Obstacles to Growth

The Campus Master Plan would be implemented within the existing campus boundaries which contain established land uses and supporting infrastructure (roads, water distribution, wastewater and drainage collection, and energy distribution). The Campus Master Plan includes redevelopment

of campus buildings and facilities and would intensify existing land use. To account for this intensification, the Campus Master Plan proposes circulation infrastructure improvements, to provide for the safe and efficient movement of pedestrians, bicycles, and vehicles around campus, while also encouraging transitions to active transportation. Further, utilities infrastructure improvements, such as minor improvements to water, wastewater, and storm drainage infrastructure, are proposed to accommodate growth under the Campus Master Plan. No new roads would be required. Because the Campus Master Plan constitutes redevelopment within an urbanized area and does not require the extension of new infrastructure through undeveloped areas, implementation of the Campus Master Plan would not remove an obstacle to growth.

6.2 Significant and Unavoidable Adverse Impacts

The CEQA Guidelines Section 15126.2(b) requires EIRs to include a discussion of the significant environmental effects that cannot be avoided if the Campus Master Plan is implemented. As documented in Section 5, *Cumulative Impacts*, after implementation of the recommended mitigation measures, most of the impacts associated with the Campus Master Plan would be reduced to a less-than-significant level. The following impacts are considered significant and unavoidable; that is, no feasible mitigation is available to reduce these impacts to a less-than-significant level:

- Impact 4.2-1 Conflict with or obstruct implementation of the applicable air quality plan
- Impact 4.2-2 Result in a cumulatively considerable net increase of any criteria pollutant for which the region is non-attainment under an applicable federal or state ambient air quality standard
- Impact 4.3.1 Cause a substantial adverse change in the significance of a historical resource pursuant to Section 15064.5
- Impact 4.5-1 Generate GHG emissions, directly or indirectly, that may have a significant impact on the environment
- Impact 4.5-2 Conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of GHG emissions

Cumulative impacts to air quality (criteria air pollutant emissions during operations), cultural resources (impacts to historical resources) and GHG emissions (effects during construction and operation, conflicts with EO B-55-18 and ACUPCC) would be significant and unavoidable as a result of the implementation of the Campus Master Plan.

6.3 Significant and Irreversible Environmental Changes

The CEQA Guidelines requires a discussion of any significant irreversible environmental changes that would be caused by a project. Specifically, the CEQA Guidelines Section 15126.2(d) states:

> Uses of nonrenewable resources during the initial and continued phases of the project may be irreversible, since a large commitment of such resources makes removal or nonuse thereafter unlikely. Primary impacts and, particularly, secondary impacts (such as highway improvement which provides access to a previously inaccessible area) generally commit future generations to similar uses. Also, irreversible damage can result from environmental accidents associated with the project. Irretrievable commitments of resources should be evaluated to assure that such current consumption is justified.

Generally, a project would result in significant irreversible environmental changes if one the following would occur:

- The primary and secondary impacts would generally commit future generations to similar uses
- A project would involve uses in which irreversible damage could result from any potential environmental accidents associated with the project
- A project would involve a large commitment of nonrenewable resources
- Proposed consumption of resources is not justified (e.g., a project involves the wasteful use of energy)

CSUF's ownership of the campus represents a long term-commitment of the campus and education uses and implementation of the Campus Master Plan would continue these uses. Restoration of the campus to pre-developed conditions would not be feasible given the degree of disturbance, the urbanization of the area, and the level of capital investment.

Irreversible commitments to future use include those related to new housing or academic and administrative space. Resources that would be permanently and continually consumed by Campus Master Plan implementation include water, electricity, natural gas, and fossil fuels. However, all new buildings would be construction in accordance with the most recent building code (i.e., CBC) at the time of construction, which require measures to reduce energy use and GHG emissions. Additionally, CSUF policies and initiatives to use renewable energy, environmentally conscious design and materials, and measures to enhance pedestrian and bicycle use, would further reduce environmental impacts. However, construction and operational activities would still result in the irretrievable commitment of nonrenewable energy resources, primarily in the form of fossil fuels, natural gas, and gasoline for automobiles and construction equipment.

In respect to operational activities, compliance with and exceedance of applicable building codes, along with mitigation measures, would ensure that natural resources are conserved or recycle to the maximum extent feasible. Additionally, new technologies or systems would emerge, or become more cost-effective or user-friendly, which would further reduce CSUF reliance on nonrenewable natural resources.

Implementation of the Campus Master Plan would accommodate student and employee population growth. Environmental impacts of on-campus population growth are accounted for in the Campus Master Plan and considered in this EIR. However, because the Campus Master Plan would cumulatively contribute to the region's housing supply, it would reduce the off-campus population growth in surrounding jurisdictions. Additionally, because the Campus Master Plan includes on-campus workforce housing, the Campus Master Plan would decrease demand for off-campus housing in the region. Therefore, the Campus Master Plan would not result in adverse impacts beyond those inherent to the plan itself and applicable plans and forecasts.

7 Alternatives

7.1 Introduction

CEQA requires an EIR to describe a reasonable range of alternatives to a project or to the location of a project that feasibly attains most of the project's basic objectives but avoids or substantially lessens any of the project's significant environmental impacts. CEQA also requires an EIR to evaluate the comparative merits of the alternatives. Section 15126.6(a), of the CEQA Guidelines requires EIRs to describe:

> a range of reasonable alternatives to the project, or to the location of the project, which would feasibly attain most of the basic objectives of the project but would avoid or substantially lessen any of the significant effects of the project and evaluate the comparative merits of the alternatives. An EIR need not consider every conceivable alternative to a project. Rather, it must consider a range of potentially feasible alternatives that will foster informed decision making and public participation. An EIR is not required to consider alternatives that are infeasible. The lead agency is responsible for selecting a range of project alternatives for examination and must publicly disclose its reasoning for selecting those alternatives. There is no ironclad rule governing the nature or scope of the alternatives to be discussed other than the rule of reason.

This section of the CEQA Guidelines also provides guidance regarding what the alternatives analysis should consider. CEQA Guidelines Section 15126.6(b) further states the purpose of the alternatives analysis is as follows:

> Because an EIR must identify ways to mitigate or avoid the significant effects that a project may have on the environment (Public Resources Code Section 21002.1), the discussion of alternatives shall focus on alternatives to the project or its location which are capable of avoiding or substantially lessening any significant effects of the project, even if these alternatives would impede to some degree the attainment of the project objectives, or would be more costly.

The CEQA Guidelines require that the EIR include sufficient information about each alternative to allow meaningful evaluation, analysis, and comparison with the proposed project. If an alternative would cause one or more significant effects in addition to those that would be caused by the project as proposed, the significant effects of the alternative must be discussed, but in less detail than the significant effects of the project as proposed (CEQA Guidelines Section 15126.6(d)).

The CEQA Guidelines further require that the "no project" alternative be considered (CEQA Guidelines Section 15126.6(e)). The purpose of describing and analyzing a no project alternative is to allow decision makers to compare the impacts of approving a proposed project with the impacts of not approving the proposed project. If the no project alternative is the environmentally superior alternative, CEQA requires that the EIR "shall also identify an environmentally superior alternative among the other alternatives" (CEQA Guidelines Section 15126.6(e)(2)). In defining "feasibility" (e.g., feasibly attain most of the basic objectives of the project), CEQA Guidelines Section 15126.6(f)(1) states, in part: Among the factors that may be taken into account when addressing the feasibility of alternatives are site suitability, economic viability, availability of infrastructure, general plan consistency, other plans or regulatory limitations, jurisdictional boundaries (projects with a regionally significant impact should consider the regional context), and

whether the proponent can reasonably acquire, control or otherwise have access to the alternative site (or the site is already owned by the proponent). No one of these factors establishes a fixed limit on the scope of reasonable alternatives. In determining what alternatives should be considered in the EIR, it is important to consider the objectives of the project, the project's significant effects, and unique project considerations. These factors are crucial to the development of alternatives that meet the criteria specified in CEQA Guidelines Section 15126.6(a).

7.2 Consideration of Selection of Alternatives

7.2.1 Attainment of Project Objectives

In determining what alternatives should be considered in the EIR, the objectives of a project must be considered, as attainment of most of the basic objectives forms one of the tests of whether an alternative is feasible (see discussion above). CSUF identified the following objectives, as previously described (see Chapter 2, *Project Description*):

- Enable the university to accommodate incremental planned enrollment growth in the future as required by the CSU.
- Construct new academic facilities that can house programs to fulfill the pedagogic needs of the future and contribute to meeting demand created by planned enrollment growth.
- Improve the connectivity and cohesion of physical spaces on campus and with improved linkages to Downtown Fullerton and public transit.
- Enable the campus to function as a 24-hour hub for student life through increased building density with amenities and access to goods and services in the campus core, the addition of student beds, informal and after-hours work spaces for students, and improved nighttime security.
- Restore the Green Loop that circumnavigates the campus to better function as an organizing feature for academic facilities and open space.
- Increase the density of academic facilities in the campus core to support program growth and change and enable cross-disciplinary collaboration in a space-efficient manner.
- Develop an Innovation Hub that allows students to experiment with processes and prototypes for the future, to serve all sectors of society.
- Establish an event center on campus for daily use by the entire campus community.
- As the campus resumes primary responsibility for management of the Arboretum, balance preservation of its natural and historic resources, protection of its function as a place of solitude and reflection for campus and community members, and enhancement of its use for academic purposes.
- Provide an additional 2,400 student beds and a range of residential options and associated amenities on campus, to support improved rates of retention and graduation for freshman and other students.
- Provide 350 units of faculty housing.
- Improve alternative, multimodal access to campus and reduce reliance on personal vehicle use and parking demand.
- Replace and improve storm management infrastructure to reduce the incidence of flooding.

- Incorporate resilience into the Campus Master Plan through emergency management planning and established locations for emergency operation centers and material storage.

7.2.2 Summary of Campus Master Plan Impacts

As required under CEQA, the intent of this alternatives analysis is to consider options that could reduce the Campus Master Plan's significant impacts. As presented in prior sections of this EIR, the Campus Master Plan would result in significant and unavoidable impacts with respect to air quality and GHG emissions. Please see the Executive Summary for a summary of the significant and unavoidable impact determinations in these environmental resource areas. As stated therein, implementation of the Campus Master Plan was determined to result in significant and unavoidable impacts on air quality (construction- and operations-related exceedance of SCAQMD thresholds for ozone precursors); cultural resources (historic built environment resources); and GHG emissions (exceedance of applicable emissions thresholds, conflict with applicable GHG emission plans). Implementation of the Campus Master Plan was also determined to result in significant but mitigable impacts on cultural resources (archaeological resources); geology and soils, including paleontological resources; and noise (construction).

7.3 Alternatives Considered but Not Evaluated Further

As described above, CEQA Guidelines Section 15126.6(c) provides that the range of potential alternatives for the project shall include those that could feasibly accomplish most of the basic objectives of the project and could avoid or substantially lessen one or more of the significant effects. Alternatives that fail to meet the fundamental project purpose need not be addressed in detail in an EIR.

An EIR is also required to identify any alternatives that were considered by the lead agency but were rejected during the planning or scoping process, and briefly explain the reasons underlying the lead agency's determination. The following alternatives were considered by CSUF but are not evaluated further in this EIR, for the reasons discussed:

- **Limited Student Enrollment:** Under this alternative, CSUF would limit student enrollment on campus resulting in a reduced need for development. This could result in reduced environmental impacts compared to the Campus Master Plan, as it would reduce the amount of new facilities development, renovations of existing buildings, and construction of landscaping/hardscape improvements. However, this alternative as it would not allow CSUF to accommodate future enrollment growth in fulfilment of the CSU's core mission, achieve the underlying purpose of the Campus Master Plan, or achieve any of the objectives.
- **No Additional Arboretum Development**. As discussed in Chapter 2, *Project Description*, and Section 4.10, *Recreation*, since 1976 the Arboretum has been operated under the auspices of the Arboretum Authority, a Joint Exercise Powers Agreement (JPA) between the Redevelopment Agency of the City of Fullerton and the Trustees of the CSU. Located in the northeastern corner of the campus, the Arboretum encompasses 26 acres and contains four major plant collections (Cultivated, Woodlands, Mediterranean, and Desert) including potentially historic citrus and avocado tree plantings; a visitor center with classrooms, museum, pavilion, and other facilities; Heritage House (Dr. George C. Clark Home and Office); a plant nursery; and a garden sale area. It serves as a campus research and education facility and as a regional destination. Since 1977, the University has leased the Arboretum land to the Authority, which has been responsible for the plant collections and historic buildings.

The Arboretum holds a Level IV ArbNet accreditation for its contribution to research and conservation projects, one of only 21 arboreta in the world to hold this distinction. As discussed in detail in Section 3.4, *Recreation*, the Arboretum is required to employ scientists engaged in research, manage living tree collections for conservation purposes, and take an active role in supporting tree conservation through professional affiliations and leadership. CSUF students conduct biological and agricultural research focusing on sustainable food systems and food justice in the arboretum. Students and Arboretum staff also mentor and teach K-12 students, other college students, and community members in the "living laboratory" of the Arboretum through a free curriculum-based outdoor science program and fee-based classes for students and the community.

With the State's elimination of Community Redevelopment Agencies, the Arboretum Authority JPA is set to terminate in December 2020. At that time, the responsibility for management and operation of the Arboretum will fall solely to CSUF, which plans to administer it through the CSUF Extension and International Programs. Arboretum administration will entail additional costs for the university for its staff, programs, the maintenance and cultivation of the grounds and plant collections, irrigation, and other expenses. The anticipated increase in student enrollment, faculty, and staff at CSUF is expected to increase demand for use of the Arboretum, as the result of an increase in annual visitors, events, and educational and research activities.

As stated in Section 3.4, *Recreation*, the Campus Master Plan proposes upgrades of existing Arboretum facilities and new development within the Arboretum that supports its mission, protect its assets, and allows it to be self-sustaining. Absent the existence and support of the JPA beyond December 2020, the University's assumption of operation of the Arboretum will impose an unsustainable cost burden. Without the Campus Master Plan improvements, the Arboretum would not be able to support the academic and community programming it currently offers and proposes for the future. Accordingly, this alternative would not achieve the objective related to the Arboretum, which states, "As the campus resumes primary responsibility for management of the Arboretum, balance preservation of its natural and historic resources, protection of its function as a place of solitude and reflection for campus and community members, and enhancement of its use for academic purposes." For these reasons, an alternative that eliminates future new development of educational, interpretive, and other support facilities in the Arboretum was dismissed from further detailed evaluation in the alternatives section.

7.4 Alternatives Selected for Detailed Analysis

Based on the significant environmental impacts and the objectives established for the Campus Master Plan, the following alternatives have been selected for analysis:

- **No Project-No Development Alternative:** Under the No Project-No Development Alternative, future campus development would generally be limited to projects already approved under the adopted 2003 Master Plan, which includes a very limited number of academic facilities, some support facilities, a single student residence, and a parking structure. Student enrollment, which reached its approved cap of 25,000 FTES during the 2016-2017 academic year, would remain officially capped at that level, despite ongoing increases in demand. Any additional development would be required to undergo separate environmental review; campuses are limited to one major master plan revision per year by the CSU State University Administrative Manual "when warranted by emergency or when donor-sponsored capital projects require earlier consideration." This alternative was selected for evaluation as required under CEQA for

its ability to reduce the Campus Master Plan's significant and unavoidable impacts related to Air Quality, Cultural Resources (Historic Resources), and Noise.

- **Reduced Enrollment and Academic Space Alternative:** Under this alternative, the same components would be constructed as under the Campus Master Plan, including academic, staff/faculty residential, student residential and student life, and athletic and recreational facilities, but there would be a 25 percent reduction in the square footage of academic space constructed. This alternative was selected for evaluation for its potential to reduce the Campus Master Plan's significant and unavoidable impacts related to air quality, GHG emissions, cultural resources (historic resources), and noise through a reduction in new development, while still meeting a majority of project objectives.
- **Increased Student Housing Alternative:** Under this alternative, the same components would be constructed as under the Campus Master Plan, including academic, faculty/staff residential, student life, and athletic and recreational facilities. However, the number of new student beds would be increased from 3,000 beds to 6,000 beds in order to reduce VMT, allow more students to reside on campus and access non-academic activities and programs, and further activate the 24/7 campus environment. To accommodate this number of student beds, up to three new student housing clusters each comprising multiple buildings would be constructed. This alternative was selected for evaluation for its potential to reduce the Campus Master Plan's significant and unavoidable impacts related to air quality and GHG emissions and further reduce VMT while still meeting a majority of project objectives, including the objectives related to the provision of additional student housing and an activated 2/47 campus environment.

The environmental impacts of each alternative are analyzed in Sections 7.4.1 through 7.4.3, below.

7.4.1 Alternative 1: No Project Alternative

CEQA Guidelines Section 15126.6(e)(1) requires that the "no project" alternative be described and analyzed "to allow decision makers to compare the impacts of approving the project with the impacts of not approving the project." The no project analysis is required to discuss "the existing conditions at the time the notice of preparation is published…as well as what would be reasonably expected to occur in the foreseeable future if the project were not approved, based on current plans and consistent with available infrastructure and community services" (CEQA Guidelines Section 15126.6(e)(2)). "If the project is…a development project on identifiable property, the no project alternative is the circumstance under which the project does not proceed. Here the discussion would compare the environmental effects of the property remaining in its existing state against environmental effects which would occur if the project is approved. If disapproval of the project under consideration would result in predictable actions by others, such as the proposal of some other project, this 'no project' consequence should be discussed. In certain instances, the no project alternative means 'no build' wherein the existing environmental setting is maintained. However, where failure to proceed with the project will not result in preservation of existing environmental conditions, the analysis should identify the practical result of the project's non-approval and not create and analyze a set of artificial assumptions that would be required to preserve the existing physical environment" (CEQA Guidelines Section 15126(e)(3)(B)).

CSUF's current Campus Master Plan was approved in 2003, making it outdated and inadequate for the university's growing demand. Since the 2003 Master Plan was approved, CSUF has become the second largest university within the CSU system and has experienced considerable growth in FTES numbers. While the 2003 Master Plan is outdated, this alternative is designed to comply with CEQA

Guidelines Section 15162(e)(3)(A) requirements to disclose the anticipated environmental impacts which would occur under a continuation of the 2003 Master Plan.

Under the No Project Alternative, the Campus Master Plan would not be adopted; rather, development of the campus would proceed in accordance with the 2003 Master Plan. Campus improvements proposed under the 2003 Master Plan but not yet constructed would still be implemented within campus boundaries (including the main campus as well as portions of the campus north of Yorba Linda Boulevard, south of East Nutwood Avenue, and west of North State College Boulevard. There are several facilities that were either already under construction at the time that the 2003 Master Plan was being prepared or were constructed between 2004 and 2019. These include the Mihaylo Colleges of Business and Economics, the Student Recreation Center, the University Police and Emergency Operations Center, and three new parking structures. With completion of these facilities, most of the facilities and improvements approved under the 2003 Master Plan will have been implemented.

Under the No Project Alternative, it is assumed that remaining facilities approved under the 2003 Master Plan that have not yet been constructed would be implemented as shown in the Campus Master Plan. Major facilities not yet constructed include the Ruby Gerontology expansion, the bookstore expansion, additional student housing, retail service office, the retail/office development on Nutwood Avenue, and the staff/ faculty housing complex and parking structure south of Nutwood Avenue.

Aesthetics

A very limited amount of development, as well as some improvements to circulation and landscaped areas, would occur under the No Project Alternative. During construction, short-term visual changes would occur due to the presence and storage of construction material and equipment in staging areas, albeit to a far lesser degree than under the Campus Master Plan. Because much of the campus is already developed, remaining buildout of the 2003 Master Plan would not substantially alter any existing views or the character of the campus.

Because the 2003 Master Plan is largely built out, the No Project Alternative would result in almost no new academic space, no staff/faculty housing, greatly reduced student housing and support space, and no new athletic and recreational facilities, and would therefore reduce potential impacts related to obstruction of the key views to and from the campus. The reduced amount of new development would also correspondingly reduce visual impacts related to light and glare, although those impacts were determined to be less than significant under the Campus Master Plan. As such, overall aesthetic impacts would be slightly reduced compared to the Campus Master Plan and would similarly result in less than significant impacts. *(Less impact)*

Air Quality

Air quality impacts under the No Project Alternative would be less than those for the Campus Master Plan since only those facilities already approved under the 2003 Master Plan and not yet constructed would be developed. As a result of the reduction in the square footage of development under the No Project Alternative, construction-related emissions would decrease as compared to the Campus Master Plan.

With respect to operations, the No Project Alternative would result in a net decrease in operational emissions compared to the Campus Master Plan, because the overall development intensity would be substantially less than under the Campus Master Plan and enrollment would remain at or near

the official 25,000 FTES cap established by the 2003 Master Plan. Therefore, the No Project Alternative would not construct the additional academic space, innovation hub, event center, parking structures, and student or staff/faculty housing planned under the Campus Master Plan and would not generate the associated additional trips and VMT than the Campus Master Plan would. *(Less construction-related and operational impacts)*

Cultural Resources

Since the 2003 Master Plan or No Project Alternative has been substantially built out and very little new development or renovation of existing facilities could occur, few or no impacts to historical resources would occur under this alternative. As discussed in Section 4.3, *Cultural Resources*, 10 properties within the campus were found to be eligible for the NRHP and CRHR, and another three properties were found eligible for the CRHR (a total of 13 buildings). Impacts to these 13 buildings were determined to be significant and unavoidable under the Campus Master Plan. Therefore, impacts associated with the No Project Alternative would be less than those of the Campus Master Plan.

With respect to archaeological resources, the reduced amount of development under the No Project Alternative would incrementally decrease the potential for impacts to unknown subsurface cultural resources. Thus, impacts would be reduced as compared to the Campus Master Plan, although the potential for impacts that require mitigation would remain. (*Less impact*)

Energy

While planned new buildings under the Campus Master Plan would be designed with the goal of zero net energy consumption to the maximum extent feasible, and building renovations would include improvements to energy systems and efficiency, energy consumption associated with operation of the Campus Master Plan would nonetheless be greater than under the No Project Alternative. Accordingly, energy use under the No Project Alternative would be reduced compared to that of the Campus Master Plan due to the reduction in the amount of net new development that could take place. (*Less impact*)

Greenhouse Gas Emissions

With the reduction in the square footage of development under the No Project Alternative, construction-related emissions would decrease compared to those of the Campus Master Plan.

A number of sustainability measures would be incorporated into new development under the Campus Master Plan, and the student and staff/faculty housing would be constructed that would reduce VMT and associated GHG emissions. Nonetheless, because only those facilities already approved under the 2003 Master Plan and not yet constructed would be developed under the No Project Alternative, the No Project Alternative would result in comparatively decreased operational GHG emissions compared to the Campus Master Plan. *(Less impact)*

Noise

The No Project Alternative would result in a reduced amount of new development and correspondingly reduced construction activity, and associated construction noise would therefore be reduced compared to the Campus Master Plan.

With respect to operational noise, the reduced number of new facilities, including buildings, athletics and recreational facilities, student and staff/faculty housing, and parking facilities would

result in reduced operational noise compared to the Campus Master Plan. Moreover, since campus enrollment would remain capped at or near the approved 25,000 FTES, noise associated with campus-related traffic would be less than that of the Campus Master Plan, notwithstanding that the Campus Master Plan proposes to construction new student and staff/faculty housing that would reduce VMT. (*Similar construction-related impact; slightly greater operational impact*)

Population and Housing

While planned new buildings under the Campus Master Plan would be designed with the goal of zero net energy consumption to the maximum extent feasible, and building renovations would include improvements to energy systems and efficiency, energy consumption associated with operation of the Campus Master Plan would nonetheless be greater than under the No Project Alternative. Accordingly, energy use under the No Project Alternative would be reduced compared to that of the Campus Master Plan due to the reduction in the amount of net new development that could take place. (*Less impact*)

Public Services

As stated under Population and Housing, the No Project Alternative would cap enrollment on the CSUF campus, which would reduce the number of projected new residents in the City (students, staff, and faculty). Accordingly, demand for public services, including fire protection and emergency response services, police protection, public schools, libraries, and medical services, would be reduced compared to the Campus Master Plan, and no new or altered facilities would be required. Impacts would be less than significant and reduced compared to the Campus Master Plan. (*Less impact*)

Recreation

The No Project Alternative would cap enrollment on the campus, and as a result, would not result in population growth in the City of Fullerton or surrounding cities or increase demand for public parks and recreational facilities in those cities. Impacts on public parks and recreational facilities would be less than significant. The Campus Master Plan would increase campus enrollment and thus the number of students, staff, and faculty living on campus and off-campus in the City of Fullerton and surrounding cities, some of whom would be expected to patronize public parks and recreational facilities in those cities. While this was determined to be a less than significant impact under the Campus Master Plan, impacts would be comparatively reduced under the No Project Alternative. (*Less impact*)

Transportation and Traffic

As stated in Section 4.11, *Transportation* (Table 4.11-5), under existing conditions, the VMT for the CSUF campus is estimated to be 18.72 and the VMT for the Campus Master Plan is estimated to be comparatively lower – 14.38 -- as the result of the increase in student and staff/faculty housing on campus under the Campus Master Plan. For this reason, VMT impacts under the No Project Alternative, which would presumably be close to those of the existing campus, would be greater than VMT impacts of the Campus Master Plan.

Similar to the Campus Master Plan, the No Project Alternative would not result in any impacts relative to traffic hazards. Buildout of the campus under this alternative, including internal circulation, would comply with applicable safety standards and would not result in hazards due to geometric design features. Further, emergency access would not be adversely affected under this

alternative. Campus officials would ensure adequate emergency access is retained both during and after construction. Similar to the Campus Master Plan, impacts to emergency access would be less than significant under this alternative. (*Greater impact*)

Utilities and Service Systems

Utilities and service systems were analyzed determined to be adequate for handling projected new demand for the Campus Master Plan. Since the No Project Alternative would mean campus enrollment would remain capped at or near the approved 25,000 FTES and only previously approved and not yet constructed development per the 2003 Master Plan could be constructed, impacts on utilities and service systems would be reduced compared to those of the Campus Master Plan. (*Less impact*)

Relationship to Project Objectives

The No Project Alternative would not allow for any growth in campus enrollment or the development of any new facilities beyond those already approved under the 2003 Master Plan but not yet constructed. For this reason, it would not achieve the underlying purpose of the Campus Master Plan, which is to support the University's Academic Master Plan and the CSU's Graduation 2025 Initiative by guiding physical campus development through the year 2039 in ways that support anticipated enrollment growth and changes in pedagogy, academic and support programs, energy supplies and use, utility infrastructure, and transportation. It would also prevent achievement of any of the project objectives.

7.4.2 Alternative 2: Reduced Enrollment and Academic Space

Under the Reduced Enrollment and Academic Space Alternative, most aspects of the Campus Master Plan would still be implemented. The buildings proposed for renovation, such as McCarthy Hall, Langsdorf Hall, the Pollak Library, the Visual Arts complex, and the Humanities Social Sciences building, would still be renovated as under the Campus Master Plan. The new event center, mobility hubs, parking structures, new innovation center, and the four new student/faculty housing clusters would be implemented. However, academic space would be reduced, since academic space entitlement is driven by FTES enrollment, the FTES growth goal of 32,000 would also be reduced, as would and associated demand for student support space would also be reduced. Under this alternative, buildings A1 and A5 would not be constructed, which would reduce academic and student support space. The removal of these two buildings equates to the removal of 235,000 sf of academic space and 130,000 sf of student life space, for a total reduction of 365,000 sf, compared to the Campus Master Plan.

Aesthetics

The Reduced Enrollment and Academic Space Alternative would result in a reduction of two buildings totaling 25 percent of proposed net new academic square footage compared to the Campus Master Plan. As discussed in Section 4.1, *Aesthetics*, the Campus Master Plan would have a less than significant impact with regard to aesthetic resources, including obstruction of views and light and glare generation. Implementation of the Reduced Enrollment and Academic Space Alternative would likewise be less than significant and would further reduce aesthetic impacts compared to the Campus Master Plan. (*Less impact*)

Air Quality

The reduction in enrollment and academic square footage under the Reduced Enrollment and Academic Space Alternative would result in fewer emissions of the criteria pollutants associated with short-term construction and long-term operation. Construction and operation-related air quality impacts would still be significant and unavoidable, but reduced compared to the Campus Master Plan. Because this alternative would result in lower FTES as compared to the Campus Master Plan, overall traffic and VMT would be reduced and would be less than significant. *(Less construction-related and operational impacts; significant and unavoidable impacts remain)*

Cultural Resources

As discussed in Section 4.3, *Cultural Resources*, 10 buildings on the campus were found to be eligible for the NRHP and CRHR, and another three properties were found eligible for the CRHR, for a total of 13 buildings. Impacts to historic resources would be comparable under this alternative, as the reduction in square footage would not reduce the potential for alterations to historic buildings compared to the Campus Master Plan, and impacts would therefore remain significant and unavoidable. (*Similar impact*)

With respect to archaeological resources, the incrementally reduced intensity and scale of development anticipated under the Reduced Enrollment and Academic Space Alternative, and thus the degree of ground disturbance, would incrementally reduce impacts compared to the Campus Master Plan, but the potential to encounter previously unknown resources would still exist. Impacts would be less than significant with mitigation, and slightly reduced compared to the Campus Master Plan. (*Less impact*)

Energy

Under the Reduced Enrollment and Academic Space Alternative, the reduced scale of development would decrease the magnitude of construction activities and associated fuel use. Because building development for this alternative would be reduced as compared to the Campus Master Plan, energy consumption would likewise be reduced, although impacts would be less than significant under both scenarios. (*Less impact*)

Greenhouse Gas Emissions

The reduction in square footage of academic facilities would result in fewer short-term construction GHG emissions. Similarly, due to the reduced intensity of academic square footage, long-term operational GHG emissions would be lower than under the Campus Master Plan. However, impacts would be significant and unavoidable under this alternative, as is the case for the Campus Master Plan, since the calculated annual emissions of MT CO_2e would still exceed the 2039 threshold of 1.15 per service person. *(Less construction-related and operational impacts; significant and unavoidable impacts remain)*

Noise

The reduction in academic square footage and reduced enrollment and associated VMT under the Reduced Enrollment and Academic Space Alternative would decrease construction and operational (mechanical and vehicular) noise generation compared to the Campus Master Plan. As under the Campus Master Plan, impacts would be less than significant for vehicular noise and significant, although mitigable, for construction and operational noise. (*Less impact*)

Population and Housing

The Reduced Enrollment and Academic Space Alternative would result in a smaller amount of academic space and a reduction in FTES. However, similar to the Campus Master Plan, the Reduced Enrollment and Academic Space Alternative would not induce substantial population growth in the area or displace substantial numbers of existing housing or people; and impacts would be similar to the Campus Master Plan. (*Less impact*)

Public Services

The Campus Master Plan was determined not to increase demand for fire or police protection services, schools, or other public facilities (libraries and medical facilities) such that new or physically altered governmental facilities, potentially causing significant environmental impacts in their own right, would be required to ensure the continued adequate provision of such services. As the Reduced Enrollment and Academic Space Alternative represents a reduction in student enrollment, impacts to public services would likewise be less than significant and would be reduced compared to the Campus Master Plan. (*Less impact*)

Recreation

The Campus Master Plan was determined not to result in a significant increase in the use of neighborhood and regional parks or other recreational facilities, nor would it include or require the construction of such facilities, potentially causing significant environmental impacts in their own right, would be required to ensure the continued adequate provision of such services. As the Reduced Enrollment and Academic Space Alternative represents a reduction in student enrollment, impacts on parks and recreational facilities would likewise be less than significant and would be reduced compared to the Campus Master Plan. (*Less impact*)

Transportation and Traffic

The Reduced Enrollment and Academic Space Alternative would reduce academic space and FTES on the campus. As discussed in the Transportation Impact Assessment provided in Appendix M and discussed in Section 4.11, *Transportation*, the Campus Master Plan would operate at a VMT that is less than the established City benchmark. This is due to the VMT efficiency gained from housing a higher proportion of students, staff, and faculty on campus under proposed buildout than under existing conditions. Therefore, buildout under the Reduced Enrollment and Academic Space Alternative would result in reduced VMT compared to the Campus Master Plan, and impacts would be less than significant. (*Less impact*)

Similar to the Campus Master Plan, the Reduced Enrollment and Academic Space Alternative would result in less than significant impacts related to traffic hazards. Buildout of the campus under this alternative, including the design of internal circulation, would comply with state standards and would not result in hazards due to geometric design features. Further, emergency access would not be adversely affected under the Reduced Enrollment and Academic Space Alternative. Campus officials would coordinate with the State Fire Marshal to ensure adequate emergency access is retained during and after construction. Impacts to emergency access would therefore be less than significant under this alternative. Because the reduction in FTES and square footage would not measurably reduce impacts related to hazards and emergency access compared to the Campus Master Plan's already less than significant impacts, impacts would be considered similar to those of the Campus Master Plan. (*Less impact*)

Utilities and Service Systems

The reduction in FTES and developed square footage under the Reduced Enrollment and Academic Space Alternative would incrementally reduce demand for public utilities, including water supply and conveyance, wastewater conveyance and treatment, and solid waste disposal services, compared to the Campus Master Plan. Impacts would be less than significant, as was concluded for Campus Master Plan. (*Less impact*)

Relationship to Project Objectives

The Reduced Enrollment and Academic Space Alternative would limit future enrollment growth on the campus as well as developed academic square footage, compared to the Campus Master Plan. For this reason, it would only partially achieve the underlying purpose of the Campus Master Plan, which is to support the University's Academic Master Plan and the CSU's Graduation 2025 Initiative by guiding physical campus development through the year 2039 in ways that support anticipated enrollment growth and changes in pedagogy, academic and support programs, energy supplies and use, utility infrastructure, and transportation.

This alternative would fully achieve the following nine project objectives, which would be unaffected by the reduction in enrollment growth and academic square footage:

- Restore the Green Loop that circumnavigates the campus to better function as an organizing feature for academic facilities and open space.
- Develop an Innovation Hub that allows students to experiment with processes and prototypes for the future, to serve all sectors of society.
- Establish an event center on campus for daily use by the entire campus community.
- As the campus resumes primary responsibility for management of the Arboretum, balance preservation of its natural and historic resources, protection of its function as a place of solitude and reflection for campus and community members, and enhancement of its use for academic purposes.
- Provide 350 units of faculty housing.
- Improve alternative, multimodal access to campus and reduce reliance on personal vehicle use and parking demand.
- Replace and improve storm management infrastructure to reduce the incidence of flooding.
- Incorporate resilience into the Campus Master Plan through emergency management planning and established locations for emergency operation centers and material storage.

The Reduced Enrollment and Academic Space Alternative would only partially achieve the following five project objectives, since the reduction in enrollment would result in the corresponding reduction in academic square footage on the campus, and an accompanying loss of capacity for future students:

- Enable the university to accommodate incremental planned enrollment growth in the future as required by the CSU.
- Construct new academic facilities that can house programs to fulfill the pedagogic needs of the future and contribute to meeting demand created by planned enrollment growth.
- Improve the connectivity and cohesion of physical spaces on campus and with improved linkages to Downtown Fullerton and public transit.

- Enable the campus to function as a 24-hour hub for student life through increased building density with amenities and access to goods and services in the campus core, the addition of student beds, informal and after-hours work spaces for students, and improved nighttime security.
- Increase the density of academic facilities in the campus core to support program growth and change and enable cross-disciplinary collaboration in a space-efficient manner.

7.4.3 Alternative 3: Increased Student Housing

The Increased Student Housing Alternative would be similar to the Campus Master Plan in all respects except that the number of new student beds would increase from 3,000 to 6,000, in new student residential buildings. The additional 3,600 beds would be provided in three new housing clusters in the same area of campus, on the east side, as existing and other new student housing proposed under the Campus Master Plan, in buildings similar in height to those (i.e., no more than 75 feet tall). The additional student housing proposed under this alternative would be located here for reasons of collocation with other existing and proposed student housing and support services and to avoid encroaching on the defined Academic Core proposed under the Campus Master Plan or athletic and open space. Because of the presence of SR 57 to the west, it is conceivable that additional student housing in this part of campus could result in the elimination of the parking facility to the south or encroachment into the Arboretum to the north and west. The building cluster intended for staff and faculty housing would not change compared to the Campus Master Plan.

CSUF has a high percentage of students that commute to classes as opposed to living on campus (<10 percent). The increase in housing would increase the percentage of students living on campus from approximately 8 percent to 25 percent, even accounting for an increase in the FTES from 25,000 to 32,000.

Aesthetics

With an increase in student housing development under this alternative, the density of development on the east side of the campus would increase, resulting in some loss of open space, including potentially some Arboretum area. The increase in student housing complexes would also generate additional light and glare in this part of the campus. For these reasons, the Increased Student Housing Alternative would result in increased aesthetic impacts, although like the Campus Master Plan, impacts would remain less than significant. (*Greater impact*)

Air Quality

The Increased Student Housing Alternative would result in incrementally increased construction-related air quality impacts due to the increased number of student residential buildings. This alternative would also slightly increase operational emissions associated with operation of three additional new student housing clusters of buildings. However, this alternative would greatly reduce student commuter trips and VMT compared to the Campus Master Plan. Therefore, the overall result of this alternative would be increased construction-related impacts but decreased operational impacts due to the VMT efficiencies of fewer student commuter trips. Air quality impacts under this alternative would be similar to the Campus Master Plan and significant and unavoidable. However, air quality impacts associated with vehicular emissions would be reduced as compared to the Campus Master Plan due to VMT efficiencies associated with fewer students communting to campus. *(Greater construction-related impact; less operational impact; significant and unavoidable impacts remain)*

Cultural Resources

As discussed in Section 4.3, *Cultural Resources*, 10 properties within the campus were found to be eligible for the NRHP and CRHR, and another three properties were found eligible for the CRHR (total of 13 buildings). Impacts to historical resources would be comparable under this alternative because the additional 3,000 student beds would be accommodated in student residential housing clusters on the east side of campus, collocated with other existing and proposed student housing, and would avoid the identified historically significant buildings in the Academic Core and elsewhere on the campus. Impacts on historic resources would be comparable to those of the Campus Master Plan. (*Similar impact*)

Archaeological resource impacts under the Increased Student Housing Alternative would be slightly greater than under the Campus Master Plan, because a larger area of campus would be subject to disturbance, and impacts would remain significant but mitigable. (*Greater impact*)

Energy

Energy use associated with construction activities would be greater under the Increased Student Housing Alternative than under the Campus Master Plan due to the increase in construction activity required for the additional student housing. Operational energy demand would also be comparatively greater because of the increased residential square footage, although this would be partially offset by the reduction in energy use associated with reduced VMT. (*Greater impact*)

Greenhouse Gas Emissions

Under the Increased Student Housing Alternative, a greater amount of student housing would be constructed than under the Campus Master Plan, resulting in increased short-term construction GHG emissions. The additional housing contemplated under this alternative would result in slightly increased operational GHG emissions relative to energy and water use and the production of solid waste; however, this would be partially or entirely offset by the Campus Master Plan's proposed sustainability measures. Moreover, this alternative would result in a slight reduction in GHG emissions compared to the Campus Master Plan due to the VMT efficiencies. However, both construction and operational GHG emissions under this alternative would be significant and unavoidable. (*Greater construction-related impact; less operational impact; significant and unavoidable impacts remain*)

Noise

The increased student housing square footage under the Increased Student Housing Alternative would increase the magnitude of construction, and therefore of associated construction noise, compared to the Campus Master Plan, although those impacts were determined to be less than significant and would likewise be less than significant under this alternative.

However, the Increased Student Housing Alternative would result in a reduction in traffic noise levels due to the reduction in trips generated by commuters as compared to the Campus Master Plan, and the increase in operational noise associated with stationary (building mechanical) operation would be minor. Accordingly, operational noise impacts would be less than those of the Campus Master Plan and less than significant. (*Greater construction-related impact; less operational impact*)

Population and Housing

The Increased Student Housing Alternative would provide more housing opportunities on campus to meet existing and projected housing demands associated with enrollment growth than would be provided under the Campus Master Plan. Additionally, this growth would account for less than one percent of the total population by 2040 and would be consistent with SCAG growth projects. Neither the Campus Master Plan nor the Increased Student Beds Alternative would result in the permanent displacement or loss of housing. Nonetheless, this alternative would result in reduced impacts related to population and housing than the Campus Master Plan. (*Less impact*)

Public Services

The Campus Master Plan was determined not to increase demand for fire or police protection services, schools, or other public facilities (libraries and medical facilities) such that new or physically altered governmental facilities, potentially causing significant environmental impacts in their own right, would be required to ensure the continued adequate provision of such services. As With the only significant difference being an increase in student housing on campus, impacts to public services under the Increased Student Housing Alternative would likewise be less than significant and would be reduced compared to the Campus Master Plan. (*Less impact*)

Recreation

The Campus Master Plan was determined not to result in a significant increase in the use of neighborhood and regional parks or other recreational facilities, nor would it include or require the construction of such facilities, potentially causing significant environmental impacts in their own right, would be required to ensure the continued adequate provision of such services. As the Increased Student Housing Alternative represents only an increase in student housing on campus, a reduction in student enrollment, impacts on parks and recreational facilities would likewise be less than significant and would be reduced compared to the Campus Master Plan. (*Less impact*)

Transportation and Traffic

The addition of 3,000 more beds on campus under this alternative would result in reduced VMT compared to the Campus Master Plan, due to the reduction in student commuter trips. Therefore, while transportation and traffic impacts would be less than significant for both this alternative and the Campus Master Plan, buildout under the Increased Student Housing Alternative would result in fewer traffic impacts.

Similar to the Campus Master Plan, the Increased Student Housing Alternative would not result in any impacts relative to traffic hazards. Buildout of the campus under this alternative, including the designs of internal circulation, would comply with state\standards and would not result in hazards due to geometric design features. Further, emergency access would not be adversely affected under the Increased Student Beds Alternative. Campus officials would coordinate with the State Fire Marshal to ensure adequate emergency access is retained both during and after construction. Similar to the Campus Master Plan, impacts to emergency access would be less than significant under this alternative. (*Less impact*)

Utilities and Service Systems

The increase in student residential square footage under the Increased Student Housing Alternative would incrementally increase demand for public utilities, including water supply and conveyance,

wastewater conveyance and treatment, and solid waste disposal services, compared to the Campus Master Plan. Impacts would remain less than significant, as was concluded for Campus Master Plan. (*Greater impact*)

Relationship to Project Objectives

The Increased Student Housing Alternative would increase the amount of student housing on campus compared to the Campus Master Plan, and in all other respects would be identical to the Campus Master Plan. For this reason, this alternative would fully achieve the underlying purpose of the Campus Master Plan, which is to support the University's Academic Master Plan and the CSU's Graduation 2025 Initiative by guiding physical campus development through the year 2039 in ways that support anticipated enrollment growth and changes in pedagogy, academic and support programs, energy supplies and use, utility infrastructure, and transportation.

This alternative would fully achieve the following 13 project objectives, which would be unaffected by the reduction in enrollment growth and academic square footage:

- Enable the university to accommodate incremental planned enrollment growth in the future as required by the CSU.
- Construct new academic facilities that can house programs to fulfill the pedagogic needs of the future and contribute to meeting demand created by planned enrollment growth.
- Improve the connectivity and cohesion of physical spaces on campus and with improved linkages to Downtown Fullerton and public transit.
- Enable the campus to function as a 24-hour hub for student life through increased building density with amenities and access to goods and services in the campus core, the addition of student beds, informal and after-hours work spaces for students, and improved nighttime security.
- Restore the Green Loop that circumnavigates the campus to better function as an organizing feature for academic facilities and open space.
- Increase the density of academic facilities in the campus core to support program growth and change and enable cross-disciplinary collaboration in a space-efficient manner.
- Develop an Innovation Hub that allows students to experiment with processes and prototypes for the future, to serve all sectors of society.
- Establish an event center on campus for daily use by the entire campus community.
- Provide an additional 2,400 student beds and a range of residential options and associated amenities on campus, to support improved rates of retention and graduation for freshman and other students.
- Provide 350 units of faculty housing.
- Improve alternative, multimodal access to campus and reduce reliance on personal vehicle use and parking demand.
- Replace and improve storm management infrastructure to reduce the incidence of flooding.
- Incorporate resilience into the Campus Master Plan through emergency management planning and established locations for emergency operation centers and material storage.

The Reduced Enrollment and Academic Space Alternative has the potential to enable only partial achievement of the following project objective related to the Arboretum, since the additional

student housing complexes could conceivably require encroachment on Arboretum land because of other physical constraints to the east, west and south:

- As the campus resumes primary responsibility for management of the Arboretum, balance preservation of its natural and historic resources, protection of its function as a place of solitude and reflection for campus and community members, and enhancement of its use for academic purposes.

Additionally, construction of this amount of student housing could be infeasible for reasons of space constraints on campus, cost, or lack of demand, depending on market conditions within Fullerton and surrounding cities.

7.5 Comparison of Alternatives

Table 7-1 indicates whether each alternative's environmental impact is greater than, less than, or similar to that of the Campus Master Plan for each of the issue areas studied.

Table 7-1 Impact Comparison of Alternatives

Issue	Campus Master Plan Impact Classification	Alternative 1: No Project	Alternative 2: Reduced Enrollment and Academic Space	Alternative 3: Increased Student Housing
Aesthetics	LTS	<	<	>
Air Quality	SU	< (construction) < (operational)	< (construction) < (operational)	> (construction) < (operational)
Cultural Resources	SM	<	= (historical) < (archeological)	= (historical) > (archaeological)
Energy	LTS	<	<	>
GHG	SU	< (construction) < (operational)	< (construction) < (operational)	< (construction) > (operational)
Noise	SM	= (construction) > (operational)	< (construction) < (operational)	< (construction) > (operational)
Population/Housing	LTS	<	<	<
Public Services	LTS	<	<	<
Transportation and Traffic	LTS	>	<	<
Utilities and Service Systems	SM	<	<	>

< Impacts would be less than the Campus Master Plan
> Impacts would be greater than the Campus Master Plan
= Similar level of impact to the Campus Master Plan
LTS – Less than Significant
SM – Significant but Mitigable
SU – Significant and Unavoidable

7.6 Environmentally Superior Alternative

The CEQA Guidelines Section 15126.6 states that an EIR should identify the "environmentally superior" alternative. "If the environmentally superior alternative is the 'no project' alternative, the EIR shall also identify an environmentally superior alternative among the other alternatives." As shown in the Executive Summary section of this EIR, there would be significant and unavoidable impacts associated with the Campus Master Plan. These impacts are related to air quality and GHG. Each of the evaluated action alternatives would result in lesser environmental impacts on some environmental resources and greater impacts on others compared to the Campus Master Plan. None of the action alternatives presented would reduce all of the impacts associated with the Campus Master Plan.

Alternative 1 (No Project-No Development), which would represent the least amount of development compared to existing conditions and thus, least potential physical environmental impacts, would be considered the environmentally superior alternative. Because the No Project–No Development Alternative (described above in Section 5.4.1) would reduce the significant adverse

impacts resulting from the construction and operation of new facilities under the Campus Master Plan, it is the environmentally superior alternative. As required by the CEQA Guidelines (Section 15126.6 [e][2]), because the environmentally superior alternative was identified as the No Project Alternative, another environmentally superior alternative must be identified among the other alternatives considered.

When considering objectives, the Campus Master Plan would best meet the purpose and need. In contrast, Alternative 1 would not provide additional housing to accommodate any growth in student enrollment. Alternative 2 would generally result in impacts that are less or equal to the Campus Master Plan but would not provide all of the additional academic facilities to meet the needs that would be generated by planned student population growth. Alternative 3 would reduce some impacts but because additional student housing would be provided, impacts to transportation and would be greater.

Alternatives 2 and 3 would result in various environmental effects, some of which would be greater than with implementation of the Campus Master Plan, some less, and some the same. However, on balance, the environmentally superior alternative would be Alternative 2. Impacts associated with Alternative 2 would be reduced for all issue areas as compared to the Campus Master Plan. However, both the Campus Master Plan and the Reduced Enrollment and Academic Alternative would result in long-term significant and unavoidable environmental impacts. Therefore, the environmental impact differences between these two alternatives are not substantial enough that one is clearly superior to the other.

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8.2 List of Preparers

This EIR was prepared by the California State University Fullerton, with the assistance of Rincon Consultants, Inc. Consultant staff involved in the preparation of the EIR are listed below.

RINCON CONSULTANTS, INC.

Deanna Hansen, Principal
Brenna Weatherby, MCP, Senior Program Manager
Lynette Leighton, MEM AICP, Senior Planner
Bill Vosti, MESM, Senior Planner
John Sisser, MESM, Associate Planner
Emily Green, Environmental Planner
Jason Montague, Environmental Planner
Jenna Shaw, Environmental Planner

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Appendix A

Notice of Preparation (NOP)

Notice of Preparation

To: _____

_____

(Address)

_____

From: Emil Zordilla, Director of Planning and Design

CSU Fullerton, 800 N State College Boulevard

Fullerton, CA 92831

(Address)

Subject: Notice of Preparation of a Draft Environmental Impact Report

Trustees of the California State University, California State University, Fullerton will be the Lead Agency and will prepare an environmental impact report for the project identified below. We need to know the views of your agency as to the scope and content of the environmental information which is germane to your agency's statutory responsibilities in connection with the proposed project. Your agency will need to use the EIR prepared by our agency when considering your permit or other approval for the project.

The project description, location, and the potential environmental effects are contained in the attached materials. A copy of the Initial Study (☐ is ☒ is not) attached.

Due to the time limits mandated by State law, your response must be sent at the earliest possible date but not later than 30 days after receipt of this notice.

Please send your response to Emil Zordilla, Director of Planning and Design at the address shown above. We will need the name for a contact person in your agency.

Project Title: Programmatic Environmental Impact Report for Campus Master Plan Update

Project Applicant, if any: California State University, Fullerton

Date August 30, 2019

Signature _____

Title Director of Planning and Design

Telephone 657-278-7665

Reference: California Code of Regulations, Title 14, (CEQA Guidelines) Sections 15082(a), 15103, 15375.

Appendix B

Notice of Preparation (NOP) Comments and Responses

DEPARTMENT OF TRANSPORTATION
DISTRICT 12
1750 EAST FOURTH STREET, SUITE 100
SANTA ANA, CA 92705
PHONE (657) 328-6267
FAX (657) 328-6510
TTY 711
www.dot.ca.gov

Making Conservation a California Way of Life.

October 3, 2019

Emil Zordilla
California State University, Fullerton
800 North State College Blvd.
Fullerton, CA 92831

File: IGR/CEQA
SCH: 2019080575
12-ORA-2019-01222
SR 57; PM 17.941

Dear Mr. Zordilla

Thank you for including the California Department of Transportation (Caltrans) in the review of the Notice of Preparation (NOP) for a draft Environmental Impact Report (EIR) for the proposed Updated Campus Master Plan for California State University, Fullerton (CSUF). The mission of Caltrans is to provide a safe, sustainable, integrated and efficient transportation system to enhance California's economy and livability.

The project proposes an update to the Campus Master Plan components which includes: net new on-campus housing for up to 3,000 students, a 6,000- seat event center, recreational facility and student union upgrades, new facilities and programs to enhance the University's Fullerton Arboretum, reconfigured and potentially increased parking capacity, new transit mobility hubs, and the College Park pedestrian bridge access across Nutwood Avenue. The Campus Master Plan will accommodate up to 32,000 full-time equivalent students (FTES) through the year 2040, an increase from the previously approved enrollment level of 25,000 as of the 2016/2017 academic year. The new net addition of approximately 3,517,202 gross square feet (gsf) of additional on-campus facilities is proposed as part of the Updated Campus Master Plan.

The project site encompasses the main CSUF campus, generally bordered by State Route 57 (SR-57) on the east, North State College Boulevard on the west, Yorba Linda Boulevard on the north, and Nutwood Avenue on the south, as well as the University's College Park classroom building and parking facilities south of Nutwood Avenue, bordered by College Place on the south, Langsdorf Drive on the east, and North Commonwealth Avenue on the west. SR 57 is owned and operated by Caltrans. Caltrans is a responsible/commenting agency and has the following comments:

Traffic Operations

1. Refer to the Caltrans Guide for The Preparation of Traffic Impact Studies when writing the Traffic Impact Study Report. Once completed, the Traffic Impact Studies Report needs to be submitted to Caltrans for review.

2. Traffic Operations requests the use of the latest version of the Highway Capacity Manual (HCM 2016) methodologies when analyzing traffic impacts on State Transportation Facilities.

3. The use of either Synchro or HCS software is preferred. All input sheets, assumptions and volumes on State Facilities should be submitted to Caltrans for review and approval.

4. Traffic Operations request the analysis of the following freeway segment types (within the influence area of the project):
    - Merge/Diverge at On/Off Ramps
    - Weaving
    - Queuing and its effects at Off Ramps
    - Mainline

5. Traffic Operations requests that the following SR 57 intersections be included in the analysis (LOS, 95th percentile queue): Chapman Ave, Nutwood Ave, and Yorba Linda Blvd.

Transportation Planning

1. Because the CMP supports multi-mobility, Caltrans recommends discussing existing and proposed Complete Streets facilities and improvements. Complete Streets facilities accommodate for all modes of transportation, including bicycles, pedestrians, transit, and vehicles. Including a discussion that integrates all modes of transportation ensures that students, faculty, and visitors can easily transition between different modes of transportation (e.g., first-/last-mile connections between transit and campus). Complete Streets facilities also encourage Active Transportation, promote regional connectivity, improve air quality, and reduce congestion, thus benefitting students, faculty, and nearby residents.

2. Caltrans recommends that a Complete Streets discussion include the City of Fullerton's Bicycle Master Plan (2012). This will ensure consistency between documents and facilities.

3. Caltrans also recommends the CMP consider the inclusion of amenities that help support these goals. Such amenities may include electric vehicle chargers, secure short and long-term bicycle parking, safe connections and wayfinding signage to existing regional bike trails, and transit shelters and lighting.

4. As new transportation technologies continue to emerge, Caltrans recognizes their potential to shift people's transportation behaviors. We recommend the Campus Master Plan include a discussion of micro-mobility and other new, emerging technologies, including but not limited to:
    - Electric powered vehicles (cars, bicycles, scooters, skateboards, etc.)
    - Transportation Network Companies (TNC)
    - Delivery robots
    - Shared-use mobility (bike share, car share, etc.)
    - Autonomous vehicles

Permits:

- Any project work proposed in the vicinity of the State right of way will require an encroachment permit, and all environmental concerns must be adequately addressed. Please coordinate with Caltrans in order to meet the requirements for any work within or near State Right-of-Way. A fee may apply. If the cost of work within the State right of way is below one Million Dollars, the Encroachment Permit process will be handled by our Permits Branch; otherwise the permit should be authorized through the Caltrans's Project Development Department. When applying for Encroachment Permit, please incorporate all Environmental Documentation, SWPPP/ WPCP, NPDES, Hydraulic Calculations, R/W certification and all relevant design details including design exception approvals. For specific details for Encroachment Permits procedure, please refer to the Caltrans's Encroachment Permits Manual. The latest edition of the Manual is available on the web site: http://www.dot.ca.gov/hq/traffops/developserv/permits/

Environmental:

- Caltrans expects the proposed EIR to evaluate any temporary and permanent water quality impacts that the proposed Master Plan may have and if any discharges ultimately outfall to Caltrans Right of Way. Those discharges must meet the latest version of the Caltrans Statewide NPDES Storm Water Permit issued by the State Water Resources Control Board.

Please continue to coordinate with Caltrans for any future developments that could potentially impact State transportation facilities. If you have any questions, please do not hesitate to contact Julie Lugaro at 657-328-6368 or Julie.lugaro@dot.ca.gov.

Sincerely,

SCOTT SHELLEY
Branch Chief, Regional-IGR-Transit Planning
District 12

Traffic Analysis for the California State University, Fullerton (CSUF) Master Plan

City of Fullerton

Level-of-Service (LOS) Analysis for the following Scenarios

1. Existing Conditions
2. Existing Conditions with Project
3. Opening Day without Project (includes other background approved developments)
4. Opening Day with Project
5. Future Build Out without Project (City to provide future build out volumes)
6. Future Build Out with Project

The following 37 intersections are to be evaluated for level-of-service.

1. Bastanchury Rd at Harbor Blvd
2. Bastanchury Rd at Brea Blvd
3. Bastanchury Rd at State College Blvd
4. Bastanchury Rd at Associated Rd
5. Bastanchury Rd at Placentia Ave
6. Yorba Linda Blvd at State College Blvd
7. Yorba Linda Blvd at Associated Rd
8. Yorba Linda Blvd at SR-57 SB Ramps
9. Yorba Linda Blvd at SR-57 NB Ramps
10. Yorba Linda Blvd at Placentia Ave
11. State College Blvd at Dorothy Ln
12. State College Blvd at Nutwood Ave
13. Nutwood Ave at Commonwealth Ave
14. Nutwood Ave at Folino Dr
15. Nutwood Ave at SR-57 NB Ramps
16. Nutwood Ave at SR-57 NB Ramps
17. Nutwood Ave at Placentia Ave
18. Harbor Blvd at Valencia Mesa Dr
19. Harbor Blvd at Brea Blvd
20. Harbor Blvd at Berkeley Ave

21. Harbor Blvd at Chapman Ave
22. Harbor Blvd at Commonwealth Ave
23. Harbor Blvd at Orangethorpe Ave
24. Lemon St at Berkeley Ave
25. Lemon St at Chapman Ave
26. Lemon St at Commonwealth Ave
27. Lemon St at Orangethorpe Ave
28. Chapman Ave at Berkeley Ave
29. Chapman Ave at Raymond Ave
30. Chapman Ave at State College Blvd
31. Chapman Ave at Commonwealth Ave
32. Chapman Ave at SR-57 NB Ramps
33. Chapman Ave at SR-57 SB Ramps
34. Chapman Ave at Placentia Ave
35. State College Blvd at Orangethorpe Ave
36. Orangethorpe Ave at Raymond Ave
37. Orangethorpe Ave at Placentia Ave

The LOS analysis shall use the Highway Capacity Manual (HCM) methodology with the following assumptions.

- AM and PM peak hours (typical weekday)
    - Traffic counts are to include vehicles, pedestrians and bicyclists
- Cycle Lengths of 110 seconds
- Saturation Flow Rates
    - Left and Right Turn Lanes – 1,800
    - Thru – 1,900
    - Dual Left Turn Lanes – 3,500
- Intersection PHF
- Acceptable LOS for all intersections within the City of Fullerton is LOS D or better with the exception of Harbor/Chapman and Harbor/Commonwealth. The LOS criteria for those two intersections is LOS E or better.

Trip Generation and Trip Distribution will need to be approved by City staff.

Senate Bill 743 (SB 743) – Vehicles Miles Traveled (VMT) Analysis

Per SB 743, a project under California Environmental Quality Act (CEQA) review is to be evaluated using vehicles miles traveled (VMT) to determine if the project has any transportation impacts. VMT analysis will be required for this project. The City of Fullerton is currently developing a VMT evaluation methodology as well as VMT significant thresholds.

P:\149-xxz Fullerton Master Plan\City of Fullerton Traffic Analysis Requirements for CSUF Master Plan.docx

Comment Card

Planning for Student Success

CALIFORNIA STATE UNIVERSITY FULLERTON

SCOPING MEETING

Please share your concerns related to the potential environmental impacts of the proposed CSU Fullerton Master Plan Update, and feel free to provide alternatives to the project design or ideas for mitigation measures. This form can be used in addition to, or instead of, making oral comments at the Scoping Meeting or submitting your comments separately by mail and email. Feel free to share this form with others who may not have been able to attend the Scoping Meeting.

How do you mitigate for heat island effect?

The Campus gets very hot from a lot of pavement. The campus needs more shade.

Comment cards can be submitted via mail or email until 5:00 p.m. on October 3, 2019 to:

Emil Zordilla

Director of Planning and Design – Campus Architect

Capital Programs & Facilities Management
California State University, Fullerton
800 N. State College Boulevard
Fullerton, California 92831
ezordilla@fullerton.edu

Thank you!

Comment Card

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- Campus run shuttles from Major transportation center (OTF Train)
- Water conservation measures
- More natural shade (not palm trees)
- more art (murals on buildings)

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There have been complaints from campus staff about flooding/runoff in certain areas of campus.

This seems to be an important issue for staff/faculty especially during the rainy season.

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With increased hardscape & buildings, please factor in shade in open space & along pedestrian pathways. This will help offset higher temperatures and emissions. Higher buildings may block movement of cooler air/breezes.

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Events center - what kind of events, what times, what times of year, how many per month - All of this needs to be disclosed and limited. This facility could seriously increase the University's impacts on surrounding neighborhoods

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ezordilla@fullerton.edu

Thank you!
For more information and updates visit **https://masterplan.fullerton.edu**

Comment Card

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Increasing the intensity of use at this location by adding 7,000 students to a 25,000 existing student population is a bit mind boggling to those of us who live nearby. Traffic on surrounding roads, including the 57 freeway, needs to be studied intensively. Parking that leaks onto surrounding streets needs to be addressed for impacts to residents, including crime and nuisance (litter, NOISE, etc)

Utilities upgrades and their impacts to streets and neighbors must be accounted for.

Aesthetics: Are we urbanizing this essentially suburban area?

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Fullerton, California 92831
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1) Is there a study of the environmental impact of the removal of trees to make way for the proposed development?

2) What is the purpose to mitigate for it?

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- Air circulation between + among buildings where air can be channeled dangerously during Santa Anas.
- California has a Master Plan for Aging because by 2030, the population of 60+ will far exceed the 18-24 year olds that are the target population for college/university campuses. Campus needs to be "age-friendly" and many of my concerns are for the OLLI - CSUF members who frequent the campus. + the potential for older students that may alter the student population demographic.

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- Water draining through campus w/ so much hardscape + pathways – especially for those with mobility issues.
- Noise within areas of the campus w/ so many multi-storied buildings.
- Heat generation w/in spaces surrounded by tall buildings + glass.
- Hopefully walking pathways will be shaded, perhaps by trees that do not require much water
- Concern for distance of transit centers to RGC where members have mobility + transit issues.

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- Not sure we need Fac. Housing? need survey?
  ↑ Is there a call for this?
- A lot of housing? We need more academic space first!
- Why do we need a Event Center? (how often will that be used) (last item) ↖
- Need more Shade either Trees or Canopys
- More Bench's/tables w/ shade covers.

* • Bridge/Ramp Nutwood #1 item *
need it now...

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LABEL THE BUILDINGS ON THE MASTER PLAN MAP.

LOOKS LIKE PARKING WILL CONTINUE TO BE A PROBLEM WHEN PARKING STRUCTURES ARE BEING BUILT ON LOTS A & G.

Comment cards can be submitted via mail or email until 5:00 p.m. on October 3, 2019 to:

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① ALL MAPS Need to indicate building NAmes, unless you know the Approx location of A building, you have no idea of what it is & whether it is going to stay, be demolished or expanded

② Parking is going to be An issue if you lose "E" to housing - Although you plan Structures on "A" & "6" - those spaces will be lost During construction, so the same issues of today will be here tomorrow

Comment cards can be submitted via mail or email until 5:00 p.m. on October 3, 2019 to:

Emil Zordilla
Director of Planning and Design - Campus Architect

Capital Programs & Facilities Management
California State University, Fullerton
800 N. State College Boulevard
Fullerton, California 92831
ezordilla@fullerton.edu

Department of Toxic Substances Control

Jared Blumenfeld
Secretary for
Environmental Protection

Meredith Williams, Ph.D.
Acting Director
5796 Corporate Avenue
Cypress, California 90630

Gavin Newsom
Governor

September 26, 2019

Mr. Emil Zordilla
Director of Planning and Design
California State University, Fullerton
800 North State College Boulevard
Fullerton, California 92831

NOTICE OF PREPARATION OF PROGRAMMATIC ENVIRONMENTAL IMPACT REPORT FOR CAMPUS MASTER PLAN UPDATE, CALIFORNIA STATE UNIVERSITY, FULLERTON

Dear Mr. Zordilla:

The Department of Toxic Substances Control (DTSC) received a Notice of Preparation of Programmatic Environmental Impact Report (PEIR) for the California State University, Fullerton (CSUF).

The proposed project is to update the CSUF Educational and Facilities Master Plan to recommend future land uses, enhancement and replacement of existing facilities, infrastructure improvements, and improved intra-campus pedestrian connectivity.

DTSC recommends the following issues to be evaluated in the PEIR, Hazards and Hazardous Materials:

1. The EIR should identify and determine whether current or historic uses at the project site may have resulted in any release of hazardous wastes/substances.

2. If releases have occurred, further studies should be carried out to delineate the nature and extent of the contamination, and the potential threat to public health and/or the environment should be evaluated. The EIR should also identify the mechanism to initiate any required investigation and/or remediation and the government agency to provide appropriate regulatory oversight.

Printed on Recycled Paper

3. The EIR should identify any known or potentially contaminated sites within the proposed project area. For all identified sites, the EIR should evaluate whether conditions at those sites may pose a threat to human health or the environment.

4. The EIR should identify whether any buildings or other structures are to be demolished. If buildings or other structures are to be demolished, a survey should be conducted for the presence of lead-based paints or products, mercury, asbestos containing materials, and polychlorinated biphenyl caulk. Removal, demolition and disposal of any above-mentioned chemicals should be conducted in compliance with California environmental regulations and policies.

5. If the project proposes to import soil to backfill any excavated areas, proper sampling should be conducted to make sure that the imported soil is free of contamination. DTSC recommend the imported materials be characterized according to the Information Advisory Clean Imported Fill Material (https://dtsc.ca.gov/wp-content/uploads/sites/31/2018/09/SMP_FS_Cleanfill-Schools.pdf).

6. If the site has been used for agricultural, weed abatement or related activities, proper investigation for organochlorinated pesticides should be discussed in the EIR.

DTSC appreciates the opportunity to review the PEIR. Should you need any assistance in environmental investigation and/or remediation, please submit a request for Lead Agency Oversight Application which can be found at: https://dtsc.ca.gov/brownfields/voluntary-agreements-quick-reference-guide/.

Should you have any questions regarding this letter, please contact me at (714) 484-5392 or by e-mail at ChiaRin.Yen@dtsc.ca.gov.

Sincerely,

Chia Rin Yen
Environmental Scientist
Brownfields Restoration and School Evaluation Branch
Site Mitigation and Restoration Program

mv/cy/yg

cc: See next page

cc: (via e-mail)

Governor's Office of Planning and Research
State Clearinghouse
State.clearinghouse@opr.ca.gov

Mr. Dave Kereazis
Office of Planning & Environmental Analysis
Department of Toxic Substances Control
Dave.Kereazis@dtsc.ca.gov

Ms. Yolanda Garza
Brownfields Restoration and School Evaluation Branch
Site Mitigation and Restoration Program
Yolanda.Garza@dtsc.ca.gov

From:	Zordilla, Emil
To:	Brenna Weatherby
Cc:	Eftychiou, Audrey; Campus Master Plan
Subject:	FW: Public Comment - CSUF Master Plan update EIR
Date:	Monday, September 30, 2019 2:01:12 PM

CAUTION: This email originated from outside of Rincon Consultants. Be cautious before clicking on any links, or opening any attachments, until you are confident that the content is safe .

FYI

Emil Zordilla, AIA, MBA, LEED AP
Director of Planning and Design – Campus Architect
Capital Programs & Facilities Management

From: Jeffrey Maisch [mailto:jrmaisch@gmail.com]
Sent: Sunday, September 29, 2019 4:01 PM
To: Zordilla, Emil <ezordilla@Fullerton.edu>
Subject: Public Comment - CSUF Master Plan update EIR

The EIR should study an alternative in which the new Events Center is scrapped in favor of building additional on-campus student housing to further mitigate the increased enrollment. The should examine the costs and benefits of student housing compared to an events center, including the cost/revenue equation, the benefits of each use to the student population, and the impacts of each use to off-campus traffic and neighborhoods.

Jeff Maisch
Fullerton

NOP Comments and EIR Response

Commenter	Comment/Request	How and Where it was Addressed
Agency Comments		
California Department of Transportation (Caltrans)	Refer to the Caltrans Guide for the preparation of Traffic Impact Studies when writing the Traffic Impact Study Report. After completion, the Traffic Impact Studies Report need to be submitted to Caltrans for review. Traffic Operations requests the use of the latest version of the Highway Capacity Manual (HCM 2016) methodologies when analyzing traffic impacts on the State Transportation Facilities. The use of either Synchro or HCS software is preferred. All input sheets, assumptions and volumes on State Facilities should be submitted to Caltrans for review and approval. Traffic Operations requests the analysis of freeway segment types: Merge/Diverge at On/Off Ramps, Weaving, Queuing and its Effects at Off Ramps, Mainline. Traffic Operations requests that the following State Route (SR) 57 intersections be included in the analysis: Chapman Avenue, Nutwood Avenue, and Yorba Linda Boulevard. Caltrans recommends discussing existing and proposed Complete Streets facilities and improvements. Recommends that a Complete Streets discussion includes the City of Fullerton's Bicycle Master Plan. Recommends the Campus Master Plan consider the inclusion of amenities that help support overall Caltrans goals. Amenities may include electric vehicle chargers, short- and long-term bicycle parking. Recommends the Campus Master Plan include a discussion of micro-mobility and other new, emerging technologies (Electric Powered Vehicles, Transportation Network Companies etc.) Work proposed in the vicinity of the State right-of-way will require an encroachment permit, and all environmental concerns must be adequately addressed. Evaluate any temporary and permanent water quality impacts that the proposed Campus Master Plan may have on Caltrans Right of Way. Discharges must meet the latest version of the Caltrans	Comments are addressed in Sections 4.11, *Transportation* and 4.13, *Effects Found Not to Be Significant* under Hydrology and Water Quality.

Commenter	Comment/Request	How and Where it was Addressed
	Statewide National Pollution Discharge and Elimination System (NPDES) Stormwater Permit.	
City of Fullerton	Requests Level of Service (LOS) Analysis for six scenarios: Existing Conditions, Existing Conditions with Project, Opening Day without Project, Opening Day with Project, Future Build out without Project, Future Build Out with Project. Requests LOS Analysis for 37 intersections throughout the immediate vicinity. LOS Analysis should use the Highway Capacity Manual (HCM) methodology with a specific set of assumptions: AM and PM peak hours, Cycle Lengths of 110 Seconds, Saturation Flow Rates, Intersection peak hour factor (PHF), Acceptable LOS for all intersections within the City of Fullerton is LOS D or better. Trip Generation and Trip Distribution will need to be approved by City staff. A project under CEQA review is to be evaluated using vehicle miles traveled (VMT) to determine if the project has any transportation impacts.	Comments are addressed in Section 4.11, *Transportation*.
California Department of Toxic Substances Control (DTSC)	Recommends the EIR to identify and determine whether current or historic uses at the campus may have resulted in any release of hazardous wastes/substances. Requests further studies to be carried out if toxic substance releases have occurred to delineate the nature and extent of the contamination. In addition, the EIR should also identify the mechanism to initiate any required investigation and/or remediation and the government agency to provide regulatory oversight. The EIR should identify any known or potentially contaminated sites within the campus. For identified sites, the EIR should evaluate whether may pose a threat to human health or the environment. The EIR should identify whether any buildings or other structures are to be demolished. If buildings or other structures are to be demolished, a survey should be conducted for the presence of lead-based paints or products, mercury, asbestos, and polychlorinated biphenyl caulk. Requests proper sampling to be conducted if the Campus Master Plan	Comments are addressed in Section 4.13*, Effects Found Not to Be Significant* under Hazards and Hazardous Materials.

Commenter	Comment/Request	How and Where it was Addressed
	includes soil import for backfill to ensure soil is free of contamination. Proper investigation for organochlorinated pesticides should be discussed in the EIR if the campus has been used for agricultural, weed abatement, or other related activities.	
Orange County Transportation Authority (OCTA)	Please clarify that Chapman Avenue from North State College Boulevard to Placentia Avenue is designated as a Major Arterial per the Orange County Master Plan of Arterial Highways (MPAH). Please ensure CSUF works closely with the City of Fullerton. The campus is served by four OCTA bus routes that connect into OCTA's network of countywide bus service, including: Route 24, Route 26, Route 57/57x, and Route 153. The proposed northern mobility hub along Yorba Linda Boulevard could be served by Route 153. There are concerns about the additional time it would take buses to enter and exit hub. Consider dedicated roadways/ driveways to allow the bus to enter and exit the hub impeded by general traffic. West mobility hub along North State College Boulevard could be served by Route 57/57x. Recommends keeping stops on North State College Boulevard immediately adjacent to hub. OCTA is amenable to moving the bus stops along North State College Boulevard to ensure a direction connection to the hub. South mobility hub along Nutwood Avenue is not compatible with the current routing system. Recommends the placement of bus stops on the street or moving the hub closer to the intersection of Nutwood Avenue and Commonwealth Avenue with a dedicated entry/exist for buses. This hub could be served by Route 24 and Route 26.	Comments are addressed in Section 4.11, *Transportation.*
Public Comments		
Transportation	• Campus shuttle should connect to City destinations such as Downtown Fullerton. • Traffic on surrounding roads including SR 57, needs to be studied intensively. Parking leaks onto surrounding streets needs to be addressed for impacts to residents, including crime and nuisance.	Comments are addressed in Section 4.11, *Transportation*.

Commenter	Comment/Request	How and Where it was Addressed
	• Concern for distance of transit centers to Ruby Gerontology Center where members have mobility and transit issues. • The pedestrian/bicycle bridge over Nutwood Avenue is needed.	
Aesthetics	• The campus could use some more campus art and murals. • By expanding the campus square footage and amenities, are we urbanizing this once suburban community? • By 2040, the population of 60-year-old people and up will exceed the 18-24 age range. The campus needs to be more "age friendly" who frequent the campus regularly such as Osher Lifelong Learning Institute members and older faculty/staff. • Noise levels on campus elevate between tall buildings. • The campus could use more tables and chairs and places for people to congregate.	Comments are addressed in Sections 4.1, *Aesthetics* and 4.7, *Noise.*
Housing	▪ Not sure if faculty housing is immediately needed. Could we put together a survey? ▪ Why is the university focusing on building more housing? The focus needs to be building more academic space first.	Comments are addressed *in* Section 4.8, *Population and Housing*.
Climate	▪ How do you mitigate against the heat island affect? The campus gets very hot in the summertime. The campus needs more shade. ▪ More natural shade on campus is needed for the summer months. ▪ With increased hardscape and buildings, please factor in shade in open spaces and along pedestrian pathways. This will help offset higher temperatures and emissions on campus. ▪ Air circulation between and among buildings where air can be challenged during the Santa Anas may help heat issues on campus. ▪ Trees among walking pathways are needed, especially in the summer months. Hopefully these trees can be drought tolerant trees. ▪ The campus needs more shade covers, particularly over tables, and gathering areas.	Comments are addressed in Sections 2.0, *Project Description*, 4.1, *Aesthetics*, and 4.10, *Recreation*.

Commenter	Comment/Request	How and Where it was Addressed
Event Center	▪ Do we really need a new Event Center? Has there been a survey or analysis done as to why this is a necessary component? ▪ Regarding the Event Center, what kind of events are going to be held there? What times in the year and what times of the day are events going to be held? All this information needs to be disclosed.	The planning and development of the Campus Master Plan is discussed in Section 2.3.1, *Project Description*. The use of the Event Center is discussed in Section 2.5.4, *Project Description*. Additional discussions surrounding the Event Center are not required to be analyzed under CEQA.
Utilities	▪ More water conservation on campus could be implemented to help conserve water in the winter months. ▪ There have been complaints from staff and faculty about flooding on certain areas of the campus. ▪ Water draining through the campus has been an issue, particularly for people with mobility issues.	Comments are addressed in Sections 4.12, *Utilities and Service Systems* and 4.13, *Effects Found Not to Be Significant* under Hydrology and Water Quality.
Impacts on Surrounding Neighborhoods	▪ There is a concern whether the Event Center will impose negative impacts to surrounding neighbors such as noise, traffic and mobility issues, and crime. ▪ Parking that overflows into the surrounding neighborhoods and streets needs to be heavily evaluated and mitigated.	Comments on the impacts resulting from the Campus Master Plan are addressed *in* Sections 4.1*, Aesthetics,* 4.7, *Noise,* 4.9, *Public Services*, and 4.11, *Transportation.* Parking is discussed in Section 2.5.9, *Project Description*, and is not a topic that requires further analysis under CEQA.
Construction Impacts	▪ Parking will be a continued issue when parking lots and structures are being built. ▪ Parking is going to be an issue if you lose Lot E to housing. Additionally, parking during construction will be an issue to both students and faculty/staff.	Parking is discussed in Section 2.5.9, *Project Description*, and is not a topic that requires further analysis under CEQA.

OCTA

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October 2, 2019

Mr. Emil Zordilla
Director of Planning and Design
California State University, Fullerton
800 N. State College Boulevard
Fullerton, CA 92831

Subject: **California State University, Fullerton Campus Master Plan Update Notice of Preparation**

Dear Mr. Zordilla:

Thank you for providing the Orange County Transportation Authority (OCTA) with the Notice of Preparation (NOP) for the California State University, Fullerton (CSUF) Campus Master Plan Update (Plan). Please see the attachment for comments related to the Master Plan of Arterial Highways, transit service, and related planning efforts. Given the proposed Plan is currently at the NOP stage, OCTA encourages CSUF to integrate the attached information into the Draft Environmental Impact Report, as appropriate.

Throughout the development of this Plan, we encourage communication with OCTA on any matters discussed herein. If you have any questions or comments, please contact me at (714) 560-5907 or dphu@octa.net.

Sincerely,

Dan Phu
Manager, Environmental Programs

Attachment

c: Meg McWade, City of Fullerton
Matt Foulkes, City of Fullerton

California State University, Fullerton Campus Master Plan Update
Notice of Preparation

Orange County Transportation Authority (OCTA) Comments

Master Plan of Arterial Highways (MPAH)

- Please note that Chapman Avenue from State College Boulevard to Placentia Avenue is designated as a Major (six-lane divided) Arterial per the Orange County MPAH. Please ensure the project sponsor works closely with the City of Fullerton to preserve the right-of-way necessary for the buildout of Chapman Avenue consistent with the MPAH.

Current Transit Service to the California State University, Fullerton (CSUF) Campus

- The CSUF campus is served by four OCTA bus routes, which connect into our network of countywide bus service. Below is a detailed description of each route alignment and frequency:

  - Route 24

    Route 24 travels predominantly down Malvern Avenue and Chapman Avenue from the Buena Park Metrolink Station to the Village at Orange with an approximately 60-minute frequency. The route turns north on State College Boulevard, east on Nutwood Avenue past the south side of campus, and south on Placentia Avenue, back to Chapman Avenue before continuing to the Village at Orange. Route 24 travels along the same streets in reverse order when going eastbound from the Village at Orange back to the Buena Park Metrolink Station. This route only provides service during weekdays only from approximately 5:30 a.m. to 9:00 p.m.

    In February 2020, OCTA will be combining Route 24 with Route 21 to become the new Route 123. The termini of Route 123 will be the Anaheim Canyon Metrolink Station instead of the Village of Orange in the east, and will use the regular Route 24 routing past CSUF to the Buena Park Metrolink Station, and then along the regular Route 21 alignment on Valley View Boulevard to terminate at the Golden West Transportation Center in Huntington Beach. The new Route 123 will continue to have approximately one-hour headways between 5:30 a.m. and 9:00 p.m. on weekdays. This route does not operate on weekends.

- Route 26
  Route 26 travels from the Fullerton Park and Ride to Yorba Linda Boulevard and Rose Drive in the City of Yorba Linda via Commonwealth Avenue, Nutwood Avenue, and Placentia Avenue. Weekday service between the Fullerton Park and Ride and CSUF is provided at a 15-minute frequency and at a 30-minute frequency during the midday and early evening. Every other peak trip continues east to Yorba Linda Boulevard and Rose Drive at a 30-minute peak frequency and 30-minute midday and early evening frequency. Weekday service is provided from 5:00 a.m. to 10:00 p.m. Weekend service is also provided on this route from 8:00 a.m. to 6:00 p.m. every 40 minutes. This route is the key connection between the Fullerton Transportation Center (Metrolink/Amtrak), Downtown Fullerton, and CSUF.

  The east end of this route will be extended to Yorba Linda Boulevard and Imperial Highway in October 2019. The peak service between the Fullerton Park and Ride and CSUF will be slightly reduced to every 20 minutes to help offset the costs of extending the route.

- Route 57/57X
  Route 57X travels predominantly along Bristol Street and State College Boulevard from the Newport Transportation Center to the Brea Mall with approximately 24-minute peak and midday frequencies. When traveling northbound on State College Boulevard past CSUF, Route 57 stops on the far side of Nutwood Avenue, far side Student Union Way, and far side of Corporation Drive. When travelling southbound, there are stops located at the far side of the same intersections. This route has weekday service from 4:00 a.m. to 12:30 a.m. Weekend service is every 30 minutes with similar service hours on weekdays.

- Route 153
  Route 153 travels from the Anaheim Regional Transportation Intermodal Center to the Brea Mall with an approximate 60-minute frequency. When travelling northbound on Placentia Avenue, the bus turns left on Yorba Linda Boulevard, then turns right on Associated Road, and stops just at the far side of northbound Associated Road/Yorba Linda Boulevard intersection. When travelling southbound, Route 153 uses the same streets in reverse order and stops at the eastbound direction, far-side of Yoba Linda Boulevard and Campus Drive service is approximately every 55 minutes from 5:00 a.m. to 9:30 p.m. on weekdays. Weekend service is every 60 minutes from 7:00 a.m. to 7:00 p.m.

California State University, Fullerton Campus Master Plan Update
Notice of Preparation

Long-Range Transit Plans

- In February 2018, OCTA completed the OC Transit Vision, a 20-year plan for enhancing and expanding public transit service in Orange County. The plan identifies the most promising corridors for major investments in high quality transit. Two of these "Transit Opportunity Corridors" would directly serve the CSUF campus. These include the "North Harbor" and "Bristol & State College" corridors. OCTA will be studying high-quality transit improvements on these corridors which may include enhanced buses, bus rapid transit, or streetcar technologies. For more information on the OC Transit Vision, please visit: https://www.octa.net/Projects-and-Programs/Plans-and-Studies/Transit-Master-Plan/.

Mobility Hubs

- OCTA has review the proposed mobility hub locations and has the following comments:

  - Northern Mobility Hub (Yorba Linda Boulevard)
    This hub could be served by OCTA Route 153. We have concerns about the additional time it would take our buses to enter and exit the hub. Please consider dedicated roadways/driveways to allow the bus to enter and exit the hub unimpeded by general traffic.

  - West Mobility Hub (State College Boulevard)
    This hub would be served by OCTA Route 57/57X. OCTA recommends keeping these bus stops on State College Boulevard immediately adjacent to the mobility hub. We are amenable to moving the bus stops along State College Boulevard to ensure a direction connection to the hub. Consider a dedicated pedestrian signal to allow customers to cross directly from the hub to the stop on southbound State College Avenue.

  - South Mobility Hub (Nutwood Avenue)
    The proposed hub location is not compatible with our current routing system. We encourage the placement of bus stops on the street or moving the hub closer to the intersection of Nutwood Avenue and Commonwealth Avenue with a dedicated entry/exit for our buses. This hub could be served by routes 24 (future Route 123) & 26.

Appendix C

Air Quality Impact Analysis

CSUF MPU - Construction Phase 1

Orange County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
University/College (4Yr)	7,000.00	Student	29.54	568,000.00	0
Arena	254.10	1000sqft	81.67	254,100.00	0
Apartments Mid Rise	2,400.00	Dwelling Unit	63.16	803,880.00	2400
Apartments Mid Rise	350.00	Dwelling Unit	9.21	540,000.00	1001
Regional Shopping Center	40.00	1000sqft	0.92	40,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	30
Climate Zone	8			**Operational Year**	2035
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CalEEMod operational years jump from 2035 to 2040, therefore earlier (more conservative) year of 2035 used for project buildout of 2039

Land Use - CalEEMod only allows for student # input for education; student # input calibrated to equal proposed SF and does not represent # of students served by land use during this phase; academic use includes amenities, academic space, and mobility hub

Construction Phase - Building construction length reduced to be consistent with CMP timeline; arch coating assumed to begin after building construction and extended for realistic timeline for painting project SF

Off-road Equipment -

Off-road Equipment - No welders anticipated.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Trips and VMT -

Demolition - Demo determined by Google Earth analysis of building footprint/floors

Grading - Export/import conservatively determined by SF from phase * 20 depth of cut. 50% exported and 50% imported.

Architectural Coating - Compliance with SCAQMD Rule 1113

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Woodstoves - No fireplaces/woodstoves assumed for housing

Area Coating - Compliance with SCAQMD Rule 1113

Energy Use -

Water And Wastewater -

Solid Waste -

Construction Off-road Equipment Mitigation - Construction would require Tier 4 engines; projects would comply with SCAQMD rules re: fugitive dust.

Mobile Commute Mitigation -

Area Mitigation -

Fleet Mix -

CSUF MPU - Construction Phase 1 - Orange County, Annual

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	50
tblAreaCoating	Area_EF_Nonresidential_Interior	100	50
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
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tblConstEquipMitigation	Tier	No Change	Tier 4 Final

tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	3,100.00	713.00
tblFireplaces	NumberGas	2,337.50	0.00
tblFireplaces	NumberNoFireplace	275.00	2,750.00
tblFireplaces	NumberWood	137.50	0.00
tblGrading	MaterialExported	0.00	301,360.00
tblGrading	MaterialImported	0.00	150,680.00
tblLandUse	LandUseSquareFeet	1,286,582.28	568,000.00
tblLandUse	LandUseSquareFeet	2,400,000.00	803,880.00
tblLandUse	LandUseSquareFeet	350,000.00	540,000.00
tblLandUse	Population	6,864.00	2,400.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblWoodstoves	NumberCatalytic	137.50	0.00
tblWoodstoves	NumberNoncatalytic	137.50	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2024	0.3180	3.0852	2.6565	5.9600e-003	0.8196	0.1346	0.9541	0.3519	0.1247	0.4766	0.0000	532.8762	532.8762	0.1367	0.0000	536.2928
2025	0.4590	6.2589	4.5371	0.0204	2.0430	0.1517	2.1947	0.7976	0.1398	0.9374	0.0000	1,982.2611	1,982.2611	0.3510	0.0000	1,991.0359
2026	0.8687	6.1918	7.6561	0.0346	3.3643	0.1152	3.4794	0.9187	0.1067	1.0255	0.0000	3,269.9178	3,269.9178	0.2872	0.0000	3,277.0974
2027	1.0911	5.5362	9.0185	0.0406	3.7068	0.0868	3.7936	0.9926	0.0810	1.0735	0.0000	3,787.0541	3,787.0541	0.1975	0.0000	3,791.9915
2028	1.0478	5.4440	8.6662	0.0397	3.6926	0.0849	3.7775	0.9888	0.0792	1.0680	0.0000	3,701.3645	3,701.3645	0.1931	0.0000	3,706.1908
2029	6.6015	1.9224	3.9361	0.0126	1.1230	0.0667	1.1897	0.2994	0.0620	0.3614	0.0000	1,146.5825	1,146.5825	0.1056	0.0000	1,149.2235
Maximum	**6.6015**	**6.2589**	**9.0185**	**0.0406**	**3.7068**	**0.1517**	**3.7936**	**0.9926**	**0.1398**	**1.0735**	**0.0000**	**3,787.0541**	**3,787.0541**	**0.3510**	**0.0000**	**3,791.9915**

2.1 Overall Construction

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2024	0.0718	0.4178	3.0923	5.9600e-003	0.3908	8.5200e-003	0.3993	0.1643	8.5000e-003	0.1728	0.0000	532.8757	532.8757	0.1367	0.0000	536.2923
2025	0.1836	3.0844	5.2996	0.0204	1.1786	0.0175	1.1961	0.4279	0.0173	0.4452	0.0000	1,982.2603	1,982.2603	0.3510	0.0000	1,991.0351
2026	0.6877	4.1113	8.1307	0.0346	2.9470	0.0255	2.9725	0.7948	0.0244	0.8191	0.0000	3,269.9173	3,269.9173	0.2872	0.0000	3,277.0969
2027	0.9784	4.2446	9.2182	0.0406	3.7068	0.0282	3.7350	0.9926	0.0265	1.0190	0.0000	3,787.0537	3,787.0537	0.1975	0.0000	3,791.9911
2028	0.9355	4.1574	8.8652	0.0397	3.6926	0.0265	3.7192	0.9888	0.0250	1.0137	0.0000	3,701.3641	3,701.3641	0.1931	0.0000	3,706.1904
2029	6.4997	0.8122	4.2667	0.0126	1.1230	0.0111	1.1340	0.2994	0.0106	0.3100	0.0000	1,146.5821	1,146.5821	0.1056	0.0000	1,149.2232
Maximum	**6.4997**	**4.2446**	**9.2182**	**0.0406**	**3.7068**	**0.0282**	**3.7350**	**0.9926**	**0.0265**	**1.0190**	**0.0000**	**3,787.0537**	**3,787.0537**	**0.3510**	**0.0000**	**3,791.9911**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**9.91**	**40.83**	**-6.59**	**0.00**	**11.60**	**81.66**	**14.51**	**15.67**	**81.09**	**23.52**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**1-1-2024**	**3-31-2024**	0.8039	0.1325
2	**4-1-2024**	**6-30-2024**	0.8033	0.1320
3	**7-1-2024**	**9-30-2024**	0.8121	0.1334
4	**10-1-2024**	**12-31-2024**	0.9761	0.0869
5	**1-1-2025**	**3-31-2025**	1.0006	0.1843

6	**4-1-2025**	**6-30-2025**	1.8734	1.0030
7	**7-1-2025**	**9-30-2025**	1.8940	1.0140
8	**10-1-2025**	**12-31-2025**	1.8992	1.0192
9	**1-1-2026**	**3-31-2026**	1.8362	0.9753
10	**4-1-2026**	**6-30-2026**	1.7821	1.0948
11	**7-1-2026**	**9-30-2026**	1.6721	1.3185
12	**10-1-2026**	**12-31-2026**	1.7108	1.3573
13	**1-1-2027**	**3-31-2027**	1.6438	1.2979
14	**4-1-2027**	**6-30-2027**	1.6252	1.2755
15	**7-1-2027**	**9-30-2027**	1.6430	1.2895
16	**10-1-2027**	**12-31-2027**	1.6803	1.3267
17	**1-1-2028**	**3-31-2028**	1.6341	1.2844
18	**4-1-2028**	**6-30-2028**	1.5988	1.2491
19	**7-1-2028**	**9-30-2028**	1.6164	1.2628
20	**10-1-2028**	**12-31-2028**	1.6520	1.2985
21	**1-1-2029**	**3-31-2029**	1.8563	1.5321
22	**4-1-2029**	**6-30-2029**	2.2397	1.9420
23	**7-1-2029**	**9-30-2029**	2.2643	1.9633
		Highest	2.2643	1.9633

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	9.4450	0.3269	28.3527	1.5000e-003		0.1576	0.1576		0.1576	0.1576	0.0000	46.5063	46.5063	0.0446	0.0000	47.6204
Energy	0.2455	2.1391	1.1967	0.0134		0.1696	0.1696		0.1696	0.1696	0.0000	8,977.5015	8,977.5015	0.3169	0.1005	9,015.3640
Mobile	4.5289	21.4204	60.5505	0.3096	37.9862	0.1518	38.1380	10.1733	0.1409	10.3143	0.0000	28,834.7165	28,834.7165	1.0617	0.0000	28,861.2599
Waste						0.0000	0.0000		0.0000	0.0000	526.0491	0.0000	526.0491	31.0886	0.0000	1,303.2643
Water						0.0000	0.0000		0.0000	0.0000	97.2646	1,785.9408	1,883.2053	10.0637	0.2511	2,209.6387
Total	**14.2194**	**23.8864**	**90.0999**	**0.3245**	**37.9862**	**0.4790**	**38.4652**	**10.1733**	**0.4681**	**10.6415**	**623.3137**	**39,644.6651**	**40,267.9787**	**42.5756**	**0.3516**	**41,437.1473**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	9.4450	0.3269	28.3527	1.5000e-003		0.1576	0.1576		0.1576	0.1576	0.0000	46.5063	46.5063	0.0446	0.0000	47.6204
Energy	0.2455	2.1391	1.1967	0.0134		0.1696	0.1696		0.1696	0.1696	0.0000	8,977.5015	8,977.5015	0.3169	0.1005	9,015.3640
Mobile	4.5289	21.4204	60.5505	0.3096	37.9862	0.1518	38.1380	10.1733	0.1409	10.3143	0.0000	28,834.7165	28,834.7165	1.0617	0.0000	28,861.2599
Waste						0.0000	0.0000		0.0000	0.0000	526.0491	0.0000	526.0491	31.0886	0.0000	1,303.2643
Water						0.0000	0.0000		0.0000	0.0000	97.2646	1,785.9408	1,883.2053	10.0637	0.2511	2,209.6387
Total	**14.2194**	**23.8864**	**90.0999**	**0.3245**	**37.9862**	**0.4790**	**38.4652**	**10.1733**	**0.4681**	**10.6415**	**623.3137**	**39,644.6651**	**40,267.9787**	**42.5756**	**0.3516**	**41,437.1473**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

CSUF MPU - Construction Phase 1 - Orange County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2024	10/4/2024	5	200	
2	Site Preparation	Site Preparation	10/5/2024	3/21/2025	5	120	
3	Grading	Grading	3/22/2025	5/29/2026	5	310	
4	Building Construction	Building Construction	5/30/2026	2/21/2029	5	713	
5	Paving	Paving	2/22/2029	12/26/2029	5	220	
6	Architectural Coating	Architectural Coating	2/22/2029	12/26/2029	5	220	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 775

Acres of Paving: 0

Residential Indoor: 2,721,357; Residential Outdoor: 907,119; Non-Residential Indoor: 1,293,150; Non-Residential Outdoor: 431,050; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

CSUF MPU - Construction Phase 1 - Orange County, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	0	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	2,029.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	56,505.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	2,338.00	435.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	468.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2195	0.0000	0.2195	0.0332	0.0000	0.0332	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2244	2.0878	1.9707	3.8800e-003		0.0960	0.0960		0.0892	0.0892	0.0000	339.9605	339.9605	0.0951	0.0000	342.3384
Total	**0.2244**	**2.0878**	**1.9707**	**3.8800e-003**	**0.2195**	**0.0960**	**0.3156**	**0.0332**	**0.0892**	**0.1225**	**0.0000**	**339.9605**	**339.9605**	**0.0951**	**0.0000**	**342.3384**

3.2 Demolition - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.7200e-003	0.1512	0.0696	7.1000e-004	0.0174	2.9000e-004	0.0177	4.7700e-003	2.8000e-004	5.0500e-003	0.0000	72.4125	72.4125	7.7000e-003	0.0000	72.6051
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.6900e-003	2.7700e-003	0.0348	1.4000e-004	0.0165	1.0000e-004	0.0166	4.3700e-003	9.0000e-005	4.4700e-003	0.0000	12.2349	12.2349	2.2000e-004	0.0000	12.2404
Total	**9.4100e-003**	**0.1539**	**0.1044**	**8.5000e-004**	**0.0339**	**3.9000e-004**	**0.0343**	**9.1400e-003**	**3.7000e-004**	**9.5200e-003**	**0.0000**	**84.6474**	**84.6474**	**7.9200e-003**	**0.0000**	**84.8455**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0988	0.0000	0.0988	0.0150	0.0000	0.0150	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0462	0.2003	2.3280	3.8800e-003		6.1600e-003	6.1600e-003		6.1600e-003	6.1600e-003	0.0000	339.9601	339.9601	0.0951	0.0000	342.3380
Total	**0.0462**	**0.2003**	**2.3280**	**3.8800e-003**	**0.0988**	**6.1600e-003**	**0.1050**	**0.0150**	**6.1600e-003**	**0.0211**	**0.0000**	**339.9601**	**339.9601**	**0.0951**	**0.0000**	**342.3380**

3.2 Demolition - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.7200e-003	0.1512	0.0696	7.1000e-004	0.0174	2.9000e-004	0.0177	4.7700e-003	2.8000e-004	5.0500e-003	0.0000	72.4125	72.4125	7.7000e-003	0.0000	72.6051
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.6900e-003	2.7700e-003	0.0348	1.4000e-004	0.0165	1.0000e-004	0.0166	4.3700e-003	9.0000e-005	4.4700e-003	0.0000	12.2349	12.2349	2.2000e-004	0.0000	12.2404
Total	**9.4100e-003**	**0.1539**	**0.1044**	**8.5000e-004**	**0.0339**	**3.9000e-004**	**0.0343**	**9.1400e-003**	**3.7000e-004**	**9.5200e-003**	**0.0000**	**84.6474**	**84.6474**	**7.9200e-003**	**0.0000**	**84.8455**

3.3 Site Preparation - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.5601	0.0000	0.5601	0.3079	0.0000	0.3079	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0825	0.8425	0.5684	1.1800e-003		0.0381	0.0381		0.0351	0.0351	0.0000	103.7169	103.7169	0.0335	0.0000	104.5555
Total	**0.0825**	**0.8425**	**0.5684**	**1.1800e-003**	**0.5601**	**0.0381**	**0.5982**	**0.3079**	**0.0351**	**0.3429**	**0.0000**	**103.7169**	**103.7169**	**0.0335**	**0.0000**	**104.5555**

3.3 Site Preparation - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.7500e-003	1.0300e-003	0.0130	5.0000e-005	6.1300e-003	4.0000e-005	6.1600e-003	1.6300e-003	4.0000e-005	1.6600e-003	0.0000	4.5514	4.5514	8.0000e-005	0.0000	4.5534
Total	**1.7500e-003**	**1.0300e-003**	**0.0130**	**5.0000e-005**	**6.1300e-003**	**4.0000e-005**	**6.1600e-003**	**1.6300e-003**	**4.0000e-005**	**1.6600e-003**	**0.0000**	**4.5514**	**4.5514**	**8.0000e-005**	**0.0000**	**4.5534**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2520	0.0000	0.2520	0.1385	0.0000	0.1385	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0144	0.0625	0.6469	1.1800e-003		1.9200e-003	1.9200e-003		1.9200e-003	1.9200e-003	0.0000	103.7168	103.7168	0.0335	0.0000	104.5554
Total	**0.0144**	**0.0625**	**0.6469**	**1.1800e-003**	**0.2520**	**1.9200e-003**	**0.2539**	**0.1385**	**1.9200e-003**	**0.1405**	**0.0000**	**103.7168**	**103.7168**	**0.0335**	**0.0000**	**104.5554**

3.3 Site Preparation - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.7500e-003	1.0300e-003	0.0130	5.0000e-005	6.1300e-003	4.0000e-005	6.1600e-003	1.6300e-003	4.0000e-005	1.6600e-003	0.0000	4.5514	4.5514	8.0000e-005	0.0000	4.5534
Total	**1.7500e-003**	**1.0300e-003**	**0.0130**	**5.0000e-005**	**6.1300e-003**	**4.0000e-005**	**6.1600e-003**	**1.6300e-003**	**4.0000e-005**	**1.6600e-003**	**0.0000**	**4.5514**	**4.5514**	**8.0000e-005**	**0.0000**	**4.5534**

3.3 Site Preparation - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.5239	0.0000	0.5239	0.2880	0.0000	0.2880	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0717	0.7318	0.5194	1.1000e-003		0.0315	0.0315		0.0290	0.0290	0.0000	97.0543	97.0543	0.0314	0.0000	97.8390
Total	**0.0717**	**0.7318**	**0.5194**	**1.1000e-003**	**0.5239**	**0.0315**	**0.5554**	**0.2880**	**0.0290**	**0.3170**	**0.0000**	**97.0543**	**97.0543**	**0.0314**	**0.0000**	**97.8390**

3.3 Site Preparation - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5600e-003	8.8000e-004	0.0113	5.0000e-005	5.7300e-003	4.0000e-005	5.7700e-003	1.5200e-003	3.0000e-005	1.5500e-003	0.0000	4.0857	4.0857	7.0000e-005	0.0000	4.0875
Total	**1.5600e-003**	**8.8000e-004**	**0.0113**	**5.0000e-005**	**5.7300e-003**	**4.0000e-005**	**5.7700e-003**	**1.5200e-003**	**3.0000e-005**	**1.5500e-003**	**0.0000**	**4.0857**	**4.0857**	**7.0000e-005**	**0.0000**	**4.0875**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2358	0.0000	0.2358	0.1296	0.0000	0.1296	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0135	0.0585	0.6052	1.1000e-003		1.8000e-003	1.8000e-003		1.8000e-003	1.8000e-003	0.0000	97.0541	97.0541	0.0314	0.0000	97.8389
Total	**0.0135**	**0.0585**	**0.6052**	**1.1000e-003**	**0.2358**	**1.8000e-003**	**0.2376**	**0.1296**	**1.8000e-003**	**0.1314**	**0.0000**	**97.0541**	**97.0541**	**0.0314**	**0.0000**	**97.8389**

3.3 Site Preparation - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5600e-003	8.8000e-004	0.0113	5.0000e-005	5.7300e-003	4.0000e-005	5.7700e-003	1.5200e-003	3.0000e-005	1.5500e-003	0.0000	4.0857	4.0857	7.0000e-005	0.0000	4.0875
Total	**1.5600e-003**	**8.8000e-004**	**0.0113**	**5.0000e-005**	**5.7300e-003**	**4.0000e-005**	**5.7700e-003**	**1.5200e-003**	**3.0000e-005**	**1.5500e-003**	**0.0000**	**4.0857**	**4.0857**	**7.0000e-005**	**0.0000**	**4.0875**

3.4 Grading - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.0478	0.0000	1.0478	0.3842	0.0000	0.3842	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2945	2.8362	2.6726	6.3000e-003		0.1148	0.1148		0.1056	0.1056	0.0000	553.2381	553.2381	0.1789	0.0000	557.7113
Total	**0.2945**	**2.8362**	**2.6726**	**6.3000e-003**	**1.0478**	**0.1148**	**1.1625**	**0.3842**	**0.1056**	**0.4898**	**0.0000**	**553.2381**	**553.2381**	**0.1789**	**0.0000**	**557.7113**

3.4 Grading - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0852	2.6866	1.2898	0.0128	0.4433	5.2600e-003	0.4486	0.1179	5.0300e-003	0.1230	0.0000	1,311.9941	1,311.9941	0.1403	0.0000	1,315.5024
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.0700e-003	3.4400e-003	0.0439	1.8000e-004	0.0223	1.4000e-004	0.0224	5.9200e-003	1.3000e-004	6.0400e-003	0.0000	15.8890	15.8890	2.7000e-004	0.0000	15.8958
Total	**0.0913**	**2.6901**	**1.3337**	**0.0130**	**0.4656**	**5.4000e-003**	**0.4710**	**0.1238**	**5.1600e-003**	**0.1290**	**0.0000**	**1,327.8830**	**1,327.8830**	**0.1406**	**0.0000**	**1,331.3981**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.4715	0.0000	0.4715	0.1729	0.0000	0.1729	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0773	0.3350	3.3494	6.3000e-003		0.0103	0.0103		0.0103	0.0103	0.0000	553.2374	553.2374	0.1789	0.0000	557.7106
Total	**0.0773**	**0.3350**	**3.3494**	**6.3000e-003**	**0.4715**	**0.0103**	**0.4818**	**0.1729**	**0.0103**	**0.1832**	**0.0000**	**553.2374**	**553.2374**	**0.1789**	**0.0000**	**557.7106**

3.4 Grading - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0852	2.6866	1.2898	0.0128	0.4433	5.2600e-003	0.4486	0.1179	5.0300e-003	0.1230	0.0000	1,311.9941	1,311.9941	0.1403	0.0000	1,315.5024
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.0700e-003	3.4400e-003	0.0439	1.8000e-004	0.0223	1.4000e-004	0.0224	5.9200e-003	1.3000e-004	6.0400e-003	0.0000	15.8890	15.8890	2.7000e-004	0.0000	15.8958
Total	**0.0913**	**2.6901**	**1.3337**	**0.0130**	**0.4656**	**5.4000e-003**	**0.4710**	**0.1238**	**5.1600e-003**	**0.1290**	**0.0000**	**1,327.8830**	**1,327.8830**	**0.1406**	**0.0000**	**1,331.3981**

3.4 Grading - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.7587	0.0000	0.7587	0.2253	0.0000	0.2253	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1552	1.4949	1.4087	3.3200e-003		0.0605	0.0605		0.0557	0.0557	0.0000	291.6082	291.6082	0.0943	0.0000	293.9660
Total	**0.1552**	**1.4949**	**1.4087**	**3.3200e-003**	**0.7587**	**0.0605**	**0.8192**	**0.2253**	**0.0557**	**0.2810**	**0.0000**	**291.6082**	**291.6082**	**0.0943**	**0.0000**	**293.9660**

3.4 Grading - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0444	1.3798	0.6893	6.7000e-003	0.4067	2.7100e-003	0.4094	0.1046	2.5900e-003	0.1072	0.0000	687.2127	687.2127	0.0737	0.0000	689.0563
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0800e-003	1.6700e-003	0.0217	9.0000e-005	0.0118	7.0000e-005	0.0118	3.1200e-003	6.0000e-005	3.1800e-003	0.0000	8.0722	8.0722	1.3000e-004	0.0000	8.0755
Total	**0.0475**	**1.3815**	**0.7110**	**6.7900e-003**	**0.4184**	**2.7800e-003**	**0.4212**	**0.1077**	**2.6500e-003**	**0.1104**	**0.0000**	**695.2849**	**695.2849**	**0.0739**	**0.0000**	**697.1318**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.3414	0.0000	0.3414	0.1014	0.0000	0.1014	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0407	0.1766	1.7655	3.3200e-003		5.4300e-003	5.4300e-003		5.4300e-003	5.4300e-003	0.0000	291.6079	291.6079	0.0943	0.0000	293.9657
Total	**0.0407**	**0.1766**	**1.7655**	**3.3200e-003**	**0.3414**	**5.4300e-003**	**0.3468**	**0.1014**	**5.4300e-003**	**0.1068**	**0.0000**	**291.6079**	**291.6079**	**0.0943**	**0.0000**	**293.9657**

3.4 Grading - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0444	1.3798	0.6893	6.7000e-003	0.4067	2.7100e-003	0.4094	0.1046	2.5900e-003	0.1072	0.0000	687.2127	687.2127	0.0737	0.0000	689.0563
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0800e-003	1.6700e-003	0.0217	9.0000e-005	0.0118	7.0000e-005	0.0118	3.1200e-003	6.0000e-005	3.1800e-003	0.0000	8.0722	8.0722	1.3000e-004	0.0000	8.0755
Total	**0.0475**	**1.3815**	**0.7110**	**6.7900e-003**	**0.4184**	**2.7800e-003**	**0.4212**	**0.1077**	**2.6500e-003**	**0.1104**	**0.0000**	**695.2849**	**695.2849**	**0.0739**	**0.0000**	**697.1318**

3.5 Building Construction - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0884	0.8568	1.1113	1.8800e-003		0.0375	0.0375		0.0351	0.0351	0.0000	164.0850	164.0850	0.0406	0.0000	165.1000
Total	**0.0884**	**0.8568**	**1.1113**	**1.8800e-003**		**0.0375**	**0.0375**		**0.0351**	**0.0351**	**0.0000**	**164.0850**	**164.0850**	**0.0406**	**0.0000**	**165.1000**

3.5 Building Construction - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0601	2.1773	0.7673	7.6400e-003	0.2109	2.5800e-003	0.2134	0.0608	2.4700e-003	0.0633	0.0000	760.8058	760.8058	0.0562	0.0000	762.2113
Worker	0.5176	0.2813	3.6577	0.0150	1.9763	0.0118	1.9881	0.5248	0.0109	0.5357	0.0000	1,358.1340	1,358.1340	0.0222	0.0000	1,358.6883
Total	**0.5776**	**2.4586**	**4.4250**	**0.0226**	**2.1872**	**0.0144**	**2.2016**	**0.5857**	**0.0134**	**0.5990**	**0.0000**	**2,118.9398**	**2,118.9398**	**0.0784**	**0.0000**	**2,120.8996**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0219	0.0948	1.2292	1.8800e-003		2.9200e-003	2.9200e-003		2.9200e-003	2.9200e-003	0.0000	164.0848	164.0848	0.0406	0.0000	165.0998
Total	**0.0219**	**0.0948**	**1.2292**	**1.8800e-003**		**2.9200e-003**	**2.9200e-003**		**2.9200e-003**	**2.9200e-003**	**0.0000**	**164.0848**	**164.0848**	**0.0406**	**0.0000**	**165.0998**

3.5 Building Construction - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0601	2.1773	0.7673	7.6400e-003	0.2109	2.5800e-003	0.2134	0.0608	2.4700e-003	0.0633	0.0000	760.8058	760.8058	0.0562	0.0000	762.2113
Worker	0.5176	0.2813	3.6577	0.0150	1.9763	0.0118	1.9881	0.5248	0.0109	0.5357	0.0000	1,358.1340	1,358.1340	0.0222	0.0000	1,358.6883
Total	**0.5776**	**2.4586**	**4.4250**	**0.0226**	**2.1872**	**0.0144**	**2.2016**	**0.5857**	**0.0134**	**0.5990**	**0.0000**	**2,118.9398**	**2,118.9398**	**0.0784**	**0.0000**	**2,120.8996**

3.5 Building Construction - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1498	1.4522	1.8835	3.1800e-003		0.0635	0.0635		0.0594	0.0594	0.0000	278.0921	278.0921	0.0688	0.0000	279.8124
Total	**0.1498**	**1.4522**	**1.8835**	**3.1800e-003**		**0.0635**	**0.0635**		**0.0594**	**0.0594**	**0.0000**	**278.0921**	**278.0921**	**0.0688**	**0.0000**	**279.8124**

3.5 Building Construction - 2027

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0997	3.6424	1.2917	0.0129	0.3574	4.2800e-003	0.3616	0.1031	4.0900e-003	0.1072	0.0000	1,282.3380	1,282.3380	0.0940	0.0000	1,284.6891
Worker	0.8416	0.4416	5.8433	0.0246	3.3495	0.0190	3.3684	0.8895	0.0174	0.9069	0.0000	2,226.6239	2,226.6239	0.0346	0.0000	2,227.4900
Total	**0.9413**	**4.0840**	**7.1350**	**0.0375**	**3.7068**	**0.0232**	**3.7301**	**0.9926**	**0.0215**	**1.0141**	**0.0000**	**3,508.9620**	**3,508.9620**	**0.1287**	**0.0000**	**3,512.1791**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0371	0.1606	2.0832	3.1800e-003		4.9400e-003	4.9400e-003		4.9400e-003	4.9400e-003	0.0000	278.0918	278.0918	0.0688	0.0000	279.8120
Total	**0.0371**	**0.1606**	**2.0832**	**3.1800e-003**		**4.9400e-003**	**4.9400e-003**		**4.9400e-003**	**4.9400e-003**	**0.0000**	**278.0918**	**278.0918**	**0.0688**	**0.0000**	**279.8120**

3.5 Building Construction - 2027

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0997	3.6424	1.2917	0.0129	0.3574	4.2800e-003	0.3616	0.1031	4.0900e-003	0.1072	0.0000	1,282.3380	1,282.3380	0.0940	0.0000	1,284.6891
Worker	0.8416	0.4416	5.8433	0.0246	3.3495	0.0190	3.3684	0.8895	0.0174	0.9069	0.0000	2,226.6239	2,226.6239	0.0346	0.0000	2,227.4900
Total	**0.9413**	**4.0840**	**7.1350**	**0.0375**	**3.7068**	**0.0232**	**3.7301**	**0.9926**	**0.0215**	**1.0141**	**0.0000**	**3,508.9620**	**3,508.9620**	**0.1287**	**0.0000**	**3,512.1791**

3.5 Building Construction - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1492	1.4466	1.8763	3.1700e-003		0.0633	0.0633		0.0592	0.0592	0.0000	277.0266	277.0266	0.0686	0.0000	278.7403
Total	**0.1492**	**1.4466**	**1.8763**	**3.1700e-003**		**0.0633**	**0.0633**		**0.0592**	**0.0592**	**0.0000**	**277.0266**	**277.0266**	**0.0686**	**0.0000**	**278.7403**

3.5 Building Construction - 2028

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0976	3.5886	1.2819	0.0128	0.3560	4.1700e-003	0.3602	0.1027	3.9900e-003	0.1067	0.0000	1,271.3064	1,271.3064	0.0926	0.0000	1,273.6202
Worker	0.8010	0.4088	5.5081	0.0238	3.3366	0.0174	3.3541	0.8861	0.0161	0.9021	0.0000	2,153.0314	2,153.0314	0.0320	0.0000	2,153.8303
Total	**0.8986**	**3.9974**	**6.7899**	**0.0365**	**3.6926**	**0.0216**	**3.7142**	**0.9888**	**0.0200**	**1.0088**	**0.0000**	**3,424.3379**	**3,424.3379**	**0.1245**	**0.0000**	**3,427.4505**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0369	0.1600	2.0752	3.1700e-003		4.9200e-003	4.9200e-003		4.9200e-003	4.9200e-003	0.0000	277.0263	277.0263	0.0686	0.0000	278.7400
Total	**0.0369**	**0.1600**	**2.0752**	**3.1700e-003**		**4.9200e-003**	**4.9200e-003**		**4.9200e-003**	**4.9200e-003**	**0.0000**	**277.0263**	**277.0263**	**0.0686**	**0.0000**	**278.7400**

3.5 Building Construction - 2028

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0976	3.5886	1.2819	0.0128	0.3560	4.1700e-003	0.3602	0.1027	3.9900e-003	0.1067	0.0000	1,271.3064	1,271.3064	0.0926	0.0000	1,273.6202
Worker	0.8010	0.4088	5.5081	0.0238	3.3366	0.0174	3.3541	0.8861	0.0161	0.9021	0.0000	2,153.0314	2,153.0314	0.0320	0.0000	2,153.8303
Total	**0.8986**	**3.9974**	**6.7899**	**0.0365**	**3.6926**	**0.0216**	**3.7142**	**0.9888**	**0.0200**	**1.0088**	**0.0000**	**3,424.3379**	**3,424.3379**	**0.1245**	**0.0000**	**3,427.4505**

3.5 Building Construction - 2029

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0218	0.2114	0.2742	4.6000e-004		9.2500e-003	9.2500e-003		8.6500e-003	8.6500e-003	0.0000	40.4885	40.4885	0.0100	0.0000	40.7390
Total	**0.0218**	**0.2114**	**0.2742**	**4.6000e-004**		**9.2500e-003**	**9.2500e-003**		**8.6500e-003**	**8.6500e-003**	**0.0000**	**40.4885**	**40.4885**	**0.0100**	**0.0000**	**40.7390**

3.5 Building Construction - 2029

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0140	0.5190	0.1866	1.8500e-003	0.0520	6.0000e-004	0.0526	0.0150	5.7000e-004	0.0156	0.0000	184.9979	184.9979	0.0134	0.0000	185.3326
Worker	0.1110	0.0555	0.7617	3.3800e-003	0.4877	2.3600e-003	0.4900	0.1295	2.1700e-003	0.1317	0.0000	306.3705	306.3705	4.3200e-003	0.0000	306.4785
Total	**0.1250**	**0.5746**	**0.9483**	**5.2300e-003**	**0.5397**	**2.9600e-003**	**0.5427**	**0.1445**	**2.7400e-003**	**0.1473**	**0.0000**	**491.3684**	**491.3684**	**0.0177**	**0.0000**	**491.8110**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.4000e-003	0.0234	0.3033	4.6000e-004		7.2000e-004	7.2000e-004		7.2000e-004	7.2000e-004	0.0000	40.4885	40.4885	0.0100	0.0000	40.7389
Total	**5.4000e-003**	**0.0234**	**0.3033**	**4.6000e-004**		**7.2000e-004**	**7.2000e-004**		**7.2000e-004**	**7.2000e-004**	**0.0000**	**40.4885**	**40.4885**	**0.0100**	**0.0000**	**40.7389**

3.5 Building Construction - 2029

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0140	0.5190	0.1866	1.8500e-003	0.0520	6.0000e-004	0.0526	0.0150	5.7000e-004	0.0156	0.0000	184.9979	184.9979	0.0134	0.0000	185.3326
Worker	0.1110	0.0555	0.7617	3.3800e-003	0.4877	2.3600e-003	0.4900	0.1295	2.1700e-003	0.1317	0.0000	306.3705	306.3705	4.3200e-003	0.0000	306.4785
Total	**0.1250**	**0.5746**	**0.9483**	**5.2300e-003**	**0.5397**	**2.9600e-003**	**0.5427**	**0.1445**	**2.7400e-003**	**0.1473**	**0.0000**	**491.3684**	**491.3684**	**0.0177**	**0.0000**	**491.8110**

3.6 Paving - 2029

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1007	0.9440	1.6036	2.5100e-003		0.0460	0.0460		0.0424	0.0424	0.0000	220.2118	220.2118	0.0712	0.0000	221.9923
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.1007**	**0.9440**	**1.6036**	**2.5100e-003**		**0.0460**	**0.0460**		**0.0424**	**0.0424**	**0.0000**	**220.2118**	**220.2118**	**0.0712**	**0.0000**	**221.9923**

3.6 Paving - 2029

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.1200e-003	2.0600e-003	0.0283	1.3000e-004	0.0181	9.0000e-005	0.0182	4.8100e-003	8.0000e-005	4.8900e-003	0.0000	11.3798	11.3798	1.6000e-004	0.0000	11.3838
Total	**4.1200e-003**	**2.0600e-003**	**0.0283**	**1.3000e-004**	**0.0181**	**9.0000e-005**	**0.0182**	**4.8100e-003**	**8.0000e-005**	**4.8900e-003**	**0.0000**	**11.3798**	**11.3798**	**1.6000e-004**	**0.0000**	**11.3838**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0309	0.1337	1.9025	2.5100e-003		4.1100e-003	4.1100e-003		4.1100e-003	4.1100e-003	0.0000	220.2116	220.2116	0.0712	0.0000	221.9921
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0309**	**0.1337**	**1.9025**	**2.5100e-003**		**4.1100e-003**	**4.1100e-003**		**4.1100e-003**	**4.1100e-003**	**0.0000**	**220.2116**	**220.2116**	**0.0712**	**0.0000**	**221.9921**

3.6 Paving - 2029

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.1200e-003	2.0600e-003	0.0283	1.3000e-004	0.0181	9.0000e-005	0.0182	4.8100e-003	8.0000e-005	4.8900e-003	0.0000	11.3798	11.3798	1.6000e-004	0.0000	11.3838
Total	**4.1200e-003**	**2.0600e-003**	**0.0283**	**1.3000e-004**	**0.0181**	**9.0000e-005**	**0.0182**	**4.8100e-003**	**8.0000e-005**	**4.8900e-003**	**0.0000**	**11.3798**	**11.3798**	**1.6000e-004**	**0.0000**	**11.3838**

3.7 Architectural Coating - 2029

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	6.2024					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0188	0.1260	0.1990	3.3000e-004		5.6700e-003	5.6700e-003		5.6700e-003	5.6700e-003	0.0000	28.0858	28.0858	1.5300e-003	0.0000	28.1241
Total	**6.2212**	**0.1260**	**0.1990**	**3.3000e-004**		**5.6700e-003**	**5.6700e-003**		**5.6700e-003**	**5.6700e-003**	**0.0000**	**28.0858**	**28.0858**	**1.5300e-003**	**0.0000**	**28.1241**

3.7 Architectural Coating - 2029

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1287	0.0644	0.8827	3.9200e-003	0.5652	2.7400e-003	0.5679	0.1501	2.5200e-003	0.1526	0.0000	355.0482	355.0482	5.0100e-003	0.0000	355.1734
Total	**0.1287**	**0.0644**	**0.8827**	**3.9200e-003**	**0.5652**	**2.7400e-003**	**0.5679**	**0.1501**	**2.5200e-003**	**0.1526**	**0.0000**	**355.0482**	**355.0482**	**5.0100e-003**	**0.0000**	**355.1734**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	6.2024					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.2700e-003	0.0142	0.2016	3.3000e-004		4.4000e-004	4.4000e-004		4.4000e-004	4.4000e-004	0.0000	28.0858	28.0858	1.5300e-003	0.0000	28.1241
Total	**6.2057**	**0.0142**	**0.2016**	**3.3000e-004**		**4.4000e-004**	**4.4000e-004**		**4.4000e-004**	**4.4000e-004**	**0.0000**	**28.0858**	**28.0858**	**1.5300e-003**	**0.0000**	**28.1241**

3.7 Architectural Coating - 2029

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1287	0.0644	0.8827	3.9200e-003	0.5652	2.7400e-003	0.5679	0.1501	2.5200e-003	0.1526	0.0000	355.0482	355.0482	5.0100e-003	0.0000	355.1734
Total	**0.1287**	**0.0644**	**0.8827**	**3.9200e-003**	**0.5652**	**2.7400e-003**	**0.5679**	**0.1501**	**2.5200e-003**	**0.1526**	**0.0000**	**355.0482**	**355.0482**	**5.0100e-003**	**0.0000**	**355.1734**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	4.5289	21.4204	60.5505	0.3096	37.9862	0.1518	38.1380	10.1733	0.1409	10.3143	0.0000	28,834.7165	28,834.7165	1.0617	0.0000	28,861.2599
Unmitigated	4.5289	21.4204	60.5505	0.3096	37.9862	0.1518	38.1380	10.1733	0.1409	10.3143	0.0000	28,834.7165	28,834.7165	1.0617	0.0000	28,861.2599

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	15,960.00	15,336.00	14064.00	53,307,570	53,307,570
Apartments Mid Rise	2,327.50	2,236.50	2051.00	7,774,021	7,774,021
Arena	2,721.41	2,721.41	2721.41	5,874,171	5,874,171
Regional Shopping Center	1,708.00	1,998.80	1009.60	3,568,198	3,568,198
University/College (4Yr)	11,970.00	9,100.00	0.00	29,588,293	29,588,293
Total	34,686.91	31,392.71	19,846.01	100,112,252	100,112,252

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Arena	16.60	8.40	6.90	0.00	81.00	19.00	66	28	6
Regional Shopping Center	16.60	8.40	6.90	16.30	64.70	19.00	54	35	11
University/College (4Yr)	16.60	8.40	6.90	6.40	88.60	5.00	91	9	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.570257	0.042258	0.208917	0.102527	0.012284	0.005810	0.027501	0.020703	0.001922	0.001419	0.005012	0.000641	0.000749
Arena	0.570257	0.042258	0.208917	0.102527	0.012284	0.005810	0.027501	0.020703	0.001922	0.001419	0.005012	0.000641	0.000749
Regional Shopping Center	0.570257	0.042258	0.208917	0.102527	0.012284	0.005810	0.027501	0.020703	0.001922	0.001419	0.005012	0.000641	0.000749
University/College (4Yr)	0.570257	0.042258	0.208917	0.102527	0.012284	0.005810	0.027501	0.020703	0.001922	0.001419	0.005012	0.000641	0.000749

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	6,548.1864	6,548.1864	0.2703	0.0559	6,571.6128
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	6,548.1864	6,548.1864	0.2703	0.0559	6,571.6128
NaturalGas Mitigated	0.2455	2.1391	1.1967	0.0134		0.1696	0.1696		0.1696	0.1696	0.0000	2,429.3151	2,429.3151	0.0466	0.0445	2,443.7513
NaturalGas Unmitigated	0.2455	2.1391	1.1967	0.0134		0.1696	0.1696		0.1696	0.1696	0.0000	2,429.3151	2,429.3151	0.0466	0.0445	2,443.7513

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	3.99961e+006	0.0216	0.1843	0.0784	1.1800e-003		0.0149	0.0149		0.0149	0.0149	0.0000	213.4345	213.4345	4.0900e-003	3.9100e-003	214.7028
Apartments Mid Rise	2.74259e+007	0.1479	1.2637	0.5378	8.0700e-003		0.1022	0.1022		0.1022	0.1022	0.0000	1,463.5507	1,463.5507	0.0281	0.0268	1,472.2478
Arena	5.31069e+006	0.0286	0.2603	0.2187	1.5600e-003		0.0198	0.0198		0.0198	0.0198	0.0000	283.3986	283.3986	5.4300e-003	5.2000e-003	285.0827
Regional Shopping Center	80000	4.3000e-004	3.9200e-003	3.2900e-003	2.0000e-005		3.0000e-004	3.0000e-004		3.0000e-004	3.0000e-004	0.0000	4.2691	4.2691	8.0000e-005	8.0000e-005	4.2945
University/College (4Yr)	8.70744e+006	0.0470	0.4268	0.3585	2.5600e-003		0.0324	0.0324		0.0324	0.0324	0.0000	464.6622	464.6622	8.9100e-003	8.5200e-003	467.4234
Total		**0.2455**	**2.1391**	**1.1967**	**0.0134**		**0.1696**	**0.1696**		**0.1696**	**0.1696**	**0.0000**	**2,429.3151**	**2,429.3151**	**0.0466**	**0.0445**	**2,443.7513**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	2.74259e+007	0.1479	1.2637	0.5378	8.0700e-003		0.1022	0.1022		0.1022	0.1022	0.0000	1,463.5507	1,463.5507	0.0281	0.0268	1,472.2478
Apartments Mid Rise	3.99961e+006	0.0216	0.1843	0.0784	1.1800e-003		0.0149	0.0149		0.0149	0.0149	0.0000	213.4345	213.4345	4.0900e-003	3.9100e-003	214.7028
Arena	5.31069e+006	0.0286	0.2603	0.2187	1.5600e-003		0.0198	0.0198		0.0198	0.0198	0.0000	283.3986	283.3986	5.4300e-003	5.2000e-003	285.0827
Regional Shopping Center	80000	4.3000e-004	3.9200e-003	3.2900e-003	2.0000e-005		3.0000e-004	3.0000e-004		3.0000e-004	3.0000e-004	0.0000	4.2691	4.2691	8.0000e-005	8.0000e-005	4.2945
University/College (4Yr)	8.70744e+006	0.0470	0.4268	0.3585	2.5600e-003		0.0324	0.0324		0.0324	0.0324	0.0000	464.6622	464.6622	8.9100e-003	8.5200e-003	467.4234
Total		**0.2455**	**2.1391**	**1.1967**	**0.0134**		**0.1696**	**0.1696**		**0.1696**	**0.1696**	**0.0000**	**2,429.3151**	**2,429.3151**	**0.0466**	**0.0445**	**2,443.7513**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	1.39136e+006	443.3155	0.0183	3.7900e-003	444.9015
Apartments Mid Rise	9.54072e+006	3,039.8778	0.1255	0.0260	3,050.7531
Arena	2.14715e+006	684.1264	0.0282	5.8400e-003	686.5739
Regional Shopping Center	457600	145.8012	6.0200e-003	1.2500e-003	146.3228
University/College (4Yr)	7.0148e+006	2,235.0656	0.0923	0.0191	2,243.0616
Total		**6,548.1864**	**0.2703**	**0.0559**	**6,571.6128**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	1.39136e+006	443.3155	0.0183	3.7900e-003	444.9015
Apartments Mid Rise	9.54072e+006	3,039.8778	0.1255	0.0260	3,050.7531
Arena	2.14715e+006	684.1264	0.0282	5.8400e-003	686.5739
Regional Shopping Center	457600	145.8012	6.0200e-003	1.2500e-003	146.3228
University/College (4Yr)	7.0148e+006	2,235.0656	0.0923	0.0191	2,243.0616
Total		**6,548.1864**	**0.2703**	**0.0559**	**6,571.6128**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	9.4450	0.3269	28.3527	1.5000e-003		0.1576	0.1576		0.1576	0.1576	0.0000	46.5063	46.5063	0.0446	0.0000	47.6204
Unmitigated	9.4450	0.3269	28.3527	1.5000e-003		0.1576	0.1576		0.1576	0.1576	0.0000	46.5063	46.5063	0.0446	0.0000	47.6204

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.6202					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	7.9713					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.8534	0.3269	28.3527	1.5000e-003		0.1576	0.1576		0.1576	0.1576	0.0000	46.5063	46.5063	0.0446	0.0000	47.6204
Total	**9.4450**	**0.3269**	**28.3527**	**1.5000e-003**		**0.1576**	**0.1576**		**0.1576**	**0.1576**	**0.0000**	**46.5063**	**46.5063**	**0.0446**	**0.0000**	**47.6204**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.6202					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	7.9713					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.8534	0.3269	28.3527	1.5000e-003		0.1576	0.1576		0.1576	0.1576	0.0000	46.5063	46.5063	0.0446	0.0000	47.6204
Total	**9.4450**	**0.3269**	**28.3527**	**1.5000e-003**		**0.1576**	**0.1576**		**0.1576**	**0.1576**	**0.0000**	**46.5063**	**46.5063**	**0.0446**	**0.0000**	**47.6204**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	1,883.2053	10.0637	0.2511	2,209.6387
Unmitigated	1,883.2053	10.0637	0.2511	2,209.6387

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	179.174 / 112.957	1,200.0489	5.8856	0.1476	1,391.1794
Arena	109.459 / 6.98672	513.5773	3.5865	0.0883	629.5551
Regional Shopping Center	2.9629 / 1.81597	19.6607	0.0973	2.4400e-003	22.8207
University/College (4Yr)	14.9877 / 23.4423	149.9184	0.4944	0.0128	166.0835
Total		**1,883.2053**	**10.0637**	**0.2511**	**2,209.6387**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	179.174 / 112.957	1,200.0489	5.8856	0.1476	1,391.1794
Arena	109.459 / 6.98672	513.5773	3.5865	0.0883	629.5551
Regional Shopping Center	2.9629 / 1.81597	19.6607	0.0973	2.4400e-003	22.8207
University/College (4Yr)	14.9877 / 23.4423	149.9184	0.4944	0.0128	166.0835
Total		**1,883.2053**	**10.0637**	**0.2511**	**2,209.6387**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	526.0491	31.0886	0.0000	1,303.2643
Unmitigated	526.0491	31.0886	0.0000	1,303.2643

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	1265	256.7836	15.1755	0.0000	636.1704
Arena	6.99	1.4189	0.0839	0.0000	3.5153
Regional Shopping Center	42	8.5256	0.5039	0.0000	21.1219
University/College (4Yr)	1277.5	259.3210	15.3254	0.0000	642.4567
Total		**526.0491**	**31.0886**	**0.0000**	**1,303.2643**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	1265	256.7836	15.1755	0.0000	636.1704
Arena	6.99	1.4189	0.0839	0.0000	3.5153
Regional Shopping Center	42	8.5256	0.5039	0.0000	21.1219
University/College (4Yr)	1277.5	259.3210	15.3254	0.0000	642.4567
Total		**526.0491**	**31.0886**	**0.0000**	**1,303.2643**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

CSUF MPU - Construction Phase 1

Orange County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
University/College (4Yr)	7,000.00	Student	29.54	568,000.00	0
Arena	254.10	1000sqft	81.67	254,100.00	0
Apartments Mid Rise	2,400.00	Dwelling Unit	63.16	803,880.00	2400
Apartments Mid Rise	350.00	Dwelling Unit	9.21	540,000.00	1001
Regional Shopping Center	40.00	1000sqft	0.92	40,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	30
Climate Zone	8			**Operational Year**	2035
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CalEEMod operational years jump from 2035 to 2040, therefore earlier (more conservative) year of 2035 used for project buildout of 2039

Land Use - CalEEMod only allows for student # input for education; student # input calibrated to equal proposed SF and does not represent # of students served by land use during this phase; academic use includes amenities, academic space, and mobility hub

Construction Phase - Building construction length reduced to be consistent with CMP timeline; arch coating assumed to begin after building construction and extended for realistic timeline for painting project SF

Off-road Equipment -

Off-road Equipment - No welders anticipated.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Trips and VMT -

Demolition - Demo determined by Google Earth analysis of building footprint/floors

Grading - Export/import conservatively determined by SF from phase * 20 depth of cut. 50% exported and 50% imported.

Architectural Coating - Compliance with SCAQMD Rule 1113

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Woodstoves - No fireplaces/woodstoves assumed for housing

Area Coating - Compliance with SCAQMD Rule 1113

Energy Use -

Water And Wastewater -

Solid Waste -

Construction Off-road Equipment Mitigation - Construction would require Tier 4 engines; projects would comply with SCAQMD rules re: fugitive dust.

Mobile Commute Mitigation -

Area Mitigation -

Fleet Mix -

CSUF MPU - Construction Phase 1 - Orange County, Winter

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	50
tblAreaCoating	Area_EF_Nonresidential_Interior	100	50
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final

tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	3,100.00	713.00
tblFireplaces	NumberGas	2,337.50	0.00
tblFireplaces	NumberNoFireplace	275.00	2,750.00
tblFireplaces	NumberWood	137.50	0.00
tblGrading	MaterialExported	0.00	301,360.00
tblGrading	MaterialImported	0.00	150,680.00
tblLandUse	LandUseSquareFeet	1,286,582.28	568,000.00
tblLandUse	LandUseSquareFeet	2,400,000.00	803,880.00
tblLandUse	LandUseSquareFeet	350,000.00	540,000.00
tblLandUse	Population	6,864.00	2,400.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblWoodstoves	NumberCatalytic	137.50	0.00
tblWoodstoves	NumberNoncatalytic	137.50	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2024	2.7240	27.2083	20.7553	0.0472	18.2675	1.2306	19.4980	9.9840	1.1321	11.1162	0.0000	4,671.4719	4,671.4719	1.1956	0.0000	4,699.8860
2025	3.8193	53.9838	39.6759	0.1889	18.2675	1.1849	19.3555	9.9840	1.0920	10.9850	0.0000	20,302.6880	20,302.6880	3.4836	0.0000	20,389.7767
2026	9.5097	53.3173	71.0215	0.3142	28.9124	1.1836	29.5870	7.7304	1.0908	8.3599	0.0000	32,240.1250	32,240.1250	3.4780	0.0000	32,282.9860
2027	9.1974	41.9422	68.2840	0.3073	28.9124	0.6655	29.5779	7.7304	0.6211	8.3515	0.0000	31,556.7577	31,556.7577	1.6787	0.0000	31,598.7263
2028	8.8686	41.4110	65.8884	0.3013	28.9124	0.6536	29.5660	7.7304	0.6101	8.3406	0.0000	30,963.0308	30,963.0308	1.6471	0.0000	31,004.2079
2029	58.8348	40.9163	63.6148	0.2960	28.9124	0.6431	29.5556	7.7304	0.6005	8.3309	0.0000	30,442.8388	30,442.8388	1.6183	0.0000	30,483.2965
Maximum	**58.8348**	**53.9838**	**71.0215**	**0.3142**	**28.9124**	**1.2306**	**29.5870**	**9.9840**	**1.1321**	**11.1162**	**0.0000**	**32,240.1250**	**32,240.1250**	**3.4836**	**0.0000**	**32,282.9860**

2.1 Overall Construction (Maximum Daily Emission)

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2024	0.5627	3.5153	24.3278	0.0472	8.3310	0.0657	8.3943	4.5222	0.0655	4.5854	0.0000	4,671.4719	4,671.4719	1.1956	0.0000	4,699.8860
2025	1.6796	29.3410	46.3440	0.1889	8.6440	0.1556	8.7996	4.5222	0.1532	4.5854	0.0000	20,302.6880	20,302.6880	3.4836	0.0000	20,389.7767
2026	8.6461	32.6622	72.5519	0.3142	28.9124	0.2258	29.1382	7.7304	0.2120	7.9424	0.0000	32,240.1250	32,240.1250	3.4780	0.0000	32,282.9860
2027	8.3338	32.0453	69.8144	0.3073	28.9124	0.2167	29.1291	7.7304	0.2036	7.9340	0.0000	31,556.7577	31,556.7577	1.6787	0.0000	31,598.7263
2028	8.0050	31.5141	67.4188	0.3013	28.9124	0.2048	29.1172	7.7304	0.1926	7.9231	0.0000	30,963.0308	30,963.0308	1.6471	0.0000	31,004.2079
2029	58.0589	31.0194	65.1452	0.2960	28.9124	0.1943	29.1068	7.7304	0.1830	7.9134	0.0000	30,442.8388	30,442.8388	1.6183	0.0000	30,483.2965
Maximum	**58.0589**	**32.6622**	**72.5519**	**0.3142**	**28.9124**	**0.2258**	**29.1382**	**7.7304**	**0.2120**	**7.9424**	**0.0000**	**32,240.1250**	**32,240.1250**	**3.4836**	**0.0000**	**32,282.9860**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**8.25**	**38.13**	**-4.97**	**0.00**	**12.85**	**80.89**	**14.93**	**21.47**	**80.38**	**26.31**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	53.9045	2.6150	226.8215	0.0120		1.2608	1.2608		1.2608	1.2608	0.0000	410.1152	410.1152	0.3930	0.0000	419.9401
Energy	1.3450	11.7212	6.5573	0.0734		0.9293	0.9293		0.9293	0.9293		14,673.2135	14,673.2135	0.2812	0.2690	14,760.4091
Mobile	27.8747	126.3178	356.9235	1.8248	230.5587	0.9079	231.4666	61.6569	0.8426	62.4995		187,337.5180	187,337.5180	7.0153		187,512.9015
Total	**83.1242**	**140.6540**	**590.3023**	**1.9102**	**230.5587**	**3.0979**	**233.6567**	**61.6569**	**3.0327**	**64.6896**	**0.0000**	**202,420.8467**	**202,420.8467**	**7.6896**	**0.2690**	**202,693.2507**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	53.9045	2.6150	226.8215	0.0120		1.2608	1.2608		1.2608	1.2608	0.0000	410.1152	410.1152	0.3930	0.0000	419.9401
Energy	1.3450	11.7212	6.5573	0.0734		0.9293	0.9293		0.9293	0.9293		14,673.2135	14,673.2135	0.2812	0.2690	14,760.4091
Mobile	27.8747	126.3178	356.9235	1.8248	230.5587	0.9079	231.4666	61.6569	0.8426	62.4995		187,337.5180	187,337.5180	7.0153		187,512.9015
Total	**83.1242**	**140.6540**	**590.3023**	**1.9102**	**230.5587**	**3.0979**	**233.6567**	**61.6569**	**3.0327**	**64.6896**	**0.0000**	**202,420.8467**	**202,420.8467**	**7.6896**	**0.2690**	**202,693.2507**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2024	10/4/2024	5	200	
2	Site Preparation	Site Preparation	10/5/2024	3/21/2025	5	120	
3	Grading	Grading	3/22/2025	5/29/2026	5	310	
4	Building Construction	Building Construction	5/30/2026	2/21/2029	5	713	
5	Paving	Paving	2/22/2029	12/26/2029	5	220	
6	Architectural Coating	Architectural Coating	2/22/2029	12/26/2029	5	220	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 775

Acres of Paving: 0

Residential Indoor: 2,721,357; Residential Outdoor: 907,119; Non-Residential Indoor: 1,293,150; Non-Residential Outdoor: 431,050; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

CSUF MPU - Construction Phase 1 - Orange County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	0	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	2,029.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	56,505.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	2,338.00	435.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	468.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.1954	0.0000	2.1954	0.3324	0.0000	0.3324			0.0000			0.0000
Off-Road	2.2437	20.8781	19.7073	0.0388		0.9602	0.9602		0.8922	0.8922		3,747.4228	3,747.4228	1.0485		3,773.6345
Total	**2.2437**	**20.8781**	**19.7073**	**0.0388**	**2.1954**	**0.9602**	**3.1555**	**0.3324**	**0.8922**	**1.2246**		**3,747.4228**	**3,747.4228**	**1.0485**		**3,773.6345**

3.2 Demolition - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0478	1.4851	0.7087	7.0200e-003	0.1766	3.0000e-003	0.1796	0.0483	2.8700e-003	0.0512		791.2052	791.2052	0.0857		793.3479
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0526	0.0270	0.3392	1.3300e-003	0.1677	1.0300e-003	0.1687	0.0445	9.5000e-004	0.0454		132.8439	132.8439	2.3900e-003		132.9036
Total	**0.1004**	**1.5121**	**1.0479**	**8.3500e-003**	**0.3443**	**4.0300e-003**	**0.3483**	**0.0928**	**3.8200e-003**	**0.0966**		**924.0492**	**924.0492**	**0.0881**		**926.2515**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.9879	0.0000	0.9879	0.1496	0.0000	0.1496			0.0000			0.0000
Off-Road	0.4623	2.0032	23.2798	0.0388		0.0616	0.0616		0.0616	0.0616	0.0000	3,747.4228	3,747.4228	1.0485		3,773.6345
Total	**0.4623**	**2.0032**	**23.2798**	**0.0388**	**0.9879**	**0.0616**	**1.0496**	**0.1496**	**0.0616**	**0.2112**	**0.0000**	**3,747.4228**	**3,747.4228**	**1.0485**		**3,773.6345**

3.2 Demolition - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0478	1.4851	0.7087	7.0200e-003	0.1766	3.0000e-003	0.1796	0.0483	2.8700e-003	0.0512		791.2052	791.2052	0.0857		793.3479
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0526	0.0270	0.3392	1.3300e-003	0.1677	1.0300e-003	0.1687	0.0445	9.5000e-004	0.0454		132.8439	132.8439	2.3900e-003		132.9036
Total	**0.1004**	**1.5121**	**1.0479**	**8.3500e-003**	**0.3443**	**4.0300e-003**	**0.3483**	**0.0928**	**3.8200e-003**	**0.0966**		**924.0492**	**924.0492**	**0.0881**		**926.2515**

3.3 Site Preparation - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	2.6609	27.1760	18.3356	0.0381		1.2294	1.2294		1.1310	1.1310		3,688.0100	3,688.0100	1.1928		3,717.8294
Total	**2.6609**	**27.1760**	**18.3356**	**0.0381**	**18.0663**	**1.2294**	**19.2956**	**9.9307**	**1.1310**	**11.0617**		**3,688.0100**	**3,688.0100**	**1.1928**		**3,717.8294**

3.3 Site Preparation - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0631	0.0323	0.4071	1.6000e-003	0.2012	1.2300e-003	0.2024	0.0534	1.1400e-003	0.0545		159.4127	159.4127	2.8600e-003		159.4843
Total	**0.0631**	**0.0323**	**0.4071**	**1.6000e-003**	**0.2012**	**1.2300e-003**	**0.2024**	**0.0534**	**1.1400e-003**	**0.0545**		**159.4127**	**159.4127**	**2.8600e-003**		**159.4843**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.1298	0.0000	8.1298	4.4688	0.0000	4.4688			0.0000			0.0000
Off-Road	0.4656	2.0175	20.8690	0.0381		0.0621	0.0621		0.0621	0.0621	0.0000	3,688.0100	3,688.0100	1.1928		3,717.8294
Total	**0.4656**	**2.0175**	**20.8690**	**0.0381**	**8.1298**	**0.0621**	**8.1919**	**4.4688**	**0.0621**	**4.5309**	**0.0000**	**3,688.0100**	**3,688.0100**	**1.1928**		**3,717.8294**

3.3 Site Preparation - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0631	0.0323	0.4071	1.6000e-003	0.2012	1.2300e-003	0.2024	0.0534	1.1400e-003	0.0545		159.4127	159.4127	2.8600e-003		159.4843
Total	**0.0631**	**0.0323**	**0.4071**	**1.6000e-003**	**0.2012**	**1.2300e-003**	**0.2024**	**0.0534**	**1.1400e-003**	**0.0545**		**159.4127**	**159.4127**	**2.8600e-003**		**159.4843**

3.3 Site Preparation - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999		3,689.1037	3,689.1037	1.1931		3,718.9320
Total	**2.4727**	**25.2339**	**17.9118**	**0.0381**	**18.0663**	**1.0868**	**19.1531**	**9.9307**	**0.9999**	**10.9305**		**3,689.1037**	**3,689.1037**	**1.1931**		**3,718.9320**

3.3 Site Preparation - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0605	0.0297	0.3797	1.5300e-003	0.2012	1.2200e-003	0.2024	0.0534	1.1200e-003	0.0545		152.9745	152.9745	2.6200e-003		153.0399
Total	**0.0605**	**0.0297**	**0.3797**	**1.5300e-003**	**0.2012**	**1.2200e-003**	**0.2024**	**0.0534**	**1.1200e-003**	**0.0545**		**152.9745**	**152.9745**	**2.6200e-003**		**153.0399**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.1298	0.0000	8.1298	4.4688	0.0000	4.4688			0.0000			0.0000
Off-Road	0.4656	2.0175	20.8690	0.0381		0.0621	0.0621		0.0621	0.0621	0.0000	3,689.1037	3,689.1037	1.1931		3,718.9320
Total	**0.4656**	**2.0175**	**20.8690**	**0.0381**	**8.1298**	**0.0621**	**8.1919**	**4.4688**	**0.0621**	**4.5309**	**0.0000**	**3,689.1037**	**3,689.1037**	**1.1931**		**3,718.9320**

3.3 Site Preparation - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0605	0.0297	0.3797	1.5300e-003	0.2012	1.2200e-003	0.2024	0.0534	1.1200e-003	0.0545		152.9745	152.9745	2.6200e-003		153.0399
Total	**0.0605**	**0.0297**	**0.3797**	**1.5300e-003**	**0.2012**	**1.2200e-003**	**0.2024**	**0.0534**	**1.1200e-003**	**0.0545**		**152.9745**	**152.9745**	**2.6200e-003**		**153.0399**

3.4 Grading - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.8382	0.0000	8.8382	3.6215	0.0000	3.6215			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404		6,008.2814	6,008.2814	1.9432		6,056.8614
Total	**2.9012**	**27.9429**	**26.3311**	**0.0621**	**8.8382**	**1.1309**	**9.9691**	**3.6215**	**1.0404**	**4.6619**		**6,008.2814**	**6,008.2814**	**1.9432**		**6,056.8614**

3.4 Grading - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.8509	26.0080	12.9229	0.1251	4.4432	0.0527	4.4959	1.1804	0.0504	1.2307		14,124.4349	14,124.4349	1.5374		14,162.8710
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0672	0.0330	0.4219	1.7000e-003	0.2236	1.3500e-003	0.2249	0.0593	1.2500e-003	0.0605		169.9716	169.9716	2.9100e-003		170.0444
Total	**0.9181**	**26.0410**	**13.3448**	**0.1268**	**4.6668**	**0.0540**	**4.7208**	**1.2396**	**0.0516**	**1.2913**		**14,294.4065**	**14,294.4065**	**1.5404**		**14,332.9153**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.9772	0.0000	3.9772	1.6297	0.0000	1.6297			0.0000			0.0000
Off-Road	0.7616	3.3000	32.9991	0.0621		0.1015	0.1015		0.1015	0.1015	0.0000	6,008.2814	6,008.2814	1.9432		6,056.8614
Total	**0.7616**	**3.3000**	**32.9991**	**0.0621**	**3.9772**	**0.1015**	**4.0788**	**1.6297**	**0.1015**	**1.7312**	**0.0000**	**6,008.2814**	**6,008.2814**	**1.9432**		**6,056.8614**

3.4 Grading - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.8509	26.0080	12.9229	0.1251	4.4432	0.0527	4.4959	1.1804	0.0504	1.2307		14,124.4349	14,124.4349	1.5374		14,162.8710
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0672	0.0330	0.4219	1.7000e-003	0.2236	1.3500e-003	0.2249	0.0593	1.2500e-003	0.0605		169.9716	169.9716	2.9100e-003		170.0444
Total	**0.9181**	**26.0410**	**13.3448**	**0.1268**	**4.6668**	**0.0540**	**4.7208**	**1.2396**	**0.0516**	**1.2913**		**14,294.4065**	**14,294.4065**	**1.5404**		**14,332.9153**

3.4 Grading - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.8382	0.0000	8.8382	3.6215	0.0000	3.6215			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404		6,008.2814	6,008.2814	1.9432		6,056.8614
Total	**2.9012**	**27.9429**	**26.3311**	**0.0621**	**8.8382**	**1.1309**	**9.9691**	**3.6215**	**1.0404**	**4.6619**		**6,008.2814**	**6,008.2814**	**1.9432**		**6,056.8614**

3.4 Grading - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.8417	25.3440	13.0945	0.1242	7.7450	0.0514	7.7964	1.9908	0.0492	2.0399		14,036.9036	14,036.9036	1.5321		14,075.2064
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0647	0.0304	0.3959	1.6400e-003	0.2236	1.3100e-003	0.2249	0.0593	1.2100e-003	0.0605		163.8278	163.8278	2.6700e-003		163.8946
Total	**0.9064**	**25.3744**	**13.4904**	**0.1258**	**7.9685**	**0.0527**	**8.0212**	**2.0501**	**0.0504**	**2.1004**		**14,200.7314**	**14,200.7314**	**1.5348**		**14,239.1010**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.9772	0.0000	3.9772	1.6297	0.0000	1.6297			0.0000			0.0000
Off-Road	0.7616	3.3000	32.9991	0.0621		0.1015	0.1015		0.1015	0.1015	0.0000	6,008.2814	6,008.2814	1.9432		6,056.8614
Total	**0.7616**	**3.3000**	**32.9991**	**0.0621**	**3.9772**	**0.1015**	**4.0788**	**1.6297**	**0.1015**	**1.7312**	**0.0000**	**6,008.2814**	**6,008.2814**	**1.9432**		**6,056.8614**

3.4 Grading - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.8417	25.3440	13.0945	0.1242	7.7450	0.0514	7.7964	1.9908	0.0492	2.0399		14,036.9036	14,036.9036	1.5321		14,075.2064
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0647	0.0304	0.3959	1.6400e-003	0.2236	1.3100e-003	0.2249	0.0593	1.2100e-003	0.0605		163.8278	163.8278	2.6700e-003		163.8946
Total	**0.9064**	**25.3744**	**13.4904**	**0.1258**	**7.9685**	**0.0527**	**8.0212**	**2.0501**	**0.0504**	**2.1004**		**14,200.7314**	**14,200.7314**	**1.5348**		**14,239.1010**

3.5 Building Construction - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1476	11.1276	14.4330	0.0244		0.4867	0.4867		0.4554	0.4554		2,348.9966	2,348.9966	0.5812		2,363.5275
Total	**1.1476**	**11.1276**	**14.4330**	**0.0244**		**0.4867**	**0.4867**		**0.4554**	**0.4554**		**2,348.9966**	**2,348.9966**	**0.5812**		**2,363.5275**

3.5 Building Construction - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.8011	27.8751	10.3030	0.0979	2.7791	0.0344	2.8135	0.7997	0.0329	0.8326		10,739.6633	10,739.6633	0.8208		10,760.1833
Worker	7.5609	3.5563	46.2855	0.1919	26.1333	0.1535	26.2869	6.9307	0.1413	7.0720		19,151.4651	19,151.4651	0.3124		19,159.2752
Total	**8.3621**	**31.4315**	**56.5885**	**0.2898**	**28.9124**	**0.1879**	**29.1003**	**7.7304**	**0.1742**	**7.9046**		**29,891.1284**	**29,891.1284**	**1.1332**		**29,919.4585**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2840	1.2307	15.9634	0.0244		0.0379	0.0379		0.0379	0.0379	0.0000	2,348.9966	2,348.9966	0.5812		2,363.5275
Total	**0.2840**	**1.2307**	**15.9634**	**0.0244**		**0.0379**	**0.0379**		**0.0379**	**0.0379**	**0.0000**	**2,348.9966**	**2,348.9966**	**0.5812**		**2,363.5275**

3.5 Building Construction - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.8011	27.8751	10.3030	0.0979	2.7791	0.0344	2.8135	0.7997	0.0329	0.8326		10,739.6633	10,739.6633	0.8208		10,760.1833
Worker	7.5609	3.5563	46.2855	0.1919	26.1333	0.1535	26.2869	6.9307	0.1413	7.0720		19,151.4651	19,151.4651	0.3124		19,159.2752
Total	**8.3621**	**31.4315**	**56.5885**	**0.2898**	**28.9124**	**0.1879**	**29.1003**	**7.7304**	**0.1742**	**7.9046**		**29,891.1284**	**29,891.1284**	**1.1332**		**29,919.4585**

3.5 Building Construction - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1476	11.1276	14.4330	0.0244		0.4867	0.4867		0.4554	0.4554		2,348.9966	2,348.9966	0.5812		2,363.5275
Total	**1.1476**	**11.1276**	**14.4330**	**0.0244**		**0.4867**	**0.4867**		**0.4554**	**0.4554**		**2,348.9966**	**2,348.9966**	**0.5812**		**2,363.5275**

3.5 Building Construction - 2027

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.7846	27.5203	10.2298	0.0973	2.7791	0.0336	2.8126	0.7997	0.0321	0.8318		10,681.5815	10,681.5815	0.8095		10,701.8196
Worker	7.2652	3.2943	43.6211	0.1856	26.1333	0.1453	26.2786	6.9307	0.1337	7.0644		18,526.1795	18,526.1795	0.2880		18,533.3792
Total	**8.0498**	**30.8145**	**53.8510**	**0.2829**	**28.9124**	**0.1789**	**29.0913**	**7.7304**	**0.1658**	**7.8962**		**29,207.7611**	**29,207.7611**	**1.0975**		**29,235.1988**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2840	1.2307	15.9634	0.0244		0.0379	0.0379		0.0379	0.0379	0.0000	2,348.9966	2,348.9966	0.5812		2,363.5275
Total	**0.2840**	**1.2307**	**15.9634**	**0.0244**		**0.0379**	**0.0379**		**0.0379**	**0.0379**	**0.0000**	**2,348.9966**	**2,348.9966**	**0.5812**		**2,363.5275**

3.5 Building Construction - 2027

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.7846	27.5203	10.2298	0.0973	2.7791	0.0336	2.8126	0.7997	0.0321	0.8318		10,681.5815	10,681.5815	0.8095		10,701.8196
Worker	7.2652	3.2943	43.6211	0.1856	26.1333	0.1453	26.2786	6.9307	0.1337	7.0644		18,526.1795	18,526.1795	0.2880		18,533.3792
Total	**8.0498**	**30.8145**	**53.8510**	**0.2829**	**28.9124**	**0.1789**	**29.0913**	**7.7304**	**0.1658**	**7.8962**		**29,207.7611**	**29,207.7611**	**1.0975**		**29,235.1988**

3.5 Building Construction - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1476	11.1276	14.4330	0.0244		0.4867	0.4867		0.4554	0.4554		2,348.9966	2,348.9966	0.5812		2,363.5275
Total	**1.1476**	**11.1276**	**14.4330**	**0.0244**		**0.4867**	**0.4867**		**0.4554**	**0.4554**		**2,348.9966**	**2,348.9966**	**0.5812**		**2,363.5275**

3.5 Building Construction - 2028

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.7704	27.2225	10.1860	0.0967	2.7791	0.0328	2.8119	0.7997	0.0313	0.8311		10,631.3855	10,631.3855	0.7992		10,651.3660
Worker	6.9507	3.0609	41.2694	0.1801	26.1333	0.1342	26.2675	6.9307	0.1234	7.0541		17,982.6488	17,982.6488	0.2666		17,989.3144
Total	**7.7210**	**30.2834**	**51.4554**	**0.2769**	**28.9124**	**0.1670**	**29.0794**	**7.7304**	**0.1548**	**7.8852**		**28,614.0342**	**28,614.0342**	**1.0659**		**28,640.6805**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2840	1.2307	15.9634	0.0244		0.0379	0.0379		0.0379	0.0379	0.0000	2,348.9966	2,348.9966	0.5812		2,363.5275
Total	**0.2840**	**1.2307**	**15.9634**	**0.0244**		**0.0379**	**0.0379**		**0.0379**	**0.0379**	**0.0000**	**2,348.9966**	**2,348.9966**	**0.5812**		**2,363.5275**

3.5 Building Construction - 2028

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.7704	27.2225	10.1860	0.0967	2.7791	0.0328	2.8119	0.7997	0.0313	0.8311		10,631.3855	10,631.3855	0.7992		10,651.3660
Worker	6.9507	3.0609	41.2694	0.1801	26.1333	0.1342	26.2675	6.9307	0.1234	7.0541		17,982.6488	17,982.6488	0.2666		17,989.3144
Total	**7.7210**	**30.2834**	**51.4554**	**0.2769**	**28.9124**	**0.1670**	**29.0794**	**7.7304**	**0.1548**	**7.8852**		**28,614.0342**	**28,614.0342**	**1.0659**		**28,640.6805**

3.5 Building Construction - 2029

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1476	11.1276	14.4330	0.0244		0.4867	0.4867		0.4554	0.4554		2,348.9966	2,348.9966	0.5812		2,363.5275
Total	**1.1476**	**11.1276**	**14.4330**	**0.0244**		**0.4867**	**0.4867**		**0.4554**	**0.4554**		**2,348.9966**	**2,348.9966**	**0.5812**		**2,363.5275**

3.5 Building Construction - 2029

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.7579	26.9438	10.1430	0.0963	2.7791	0.0321	2.8112	0.7997	0.0307	0.8304		10,585.9014	10,585.9014	0.7905		10,605.6642
Worker	6.5986	2.8449	39.0388	0.1754	26.1333	0.1244	26.2577	6.9307	0.1144	7.0451		17,507.9408	17,507.9408	0.2466		17,514.1049
Total	**7.3565**	**29.7887**	**49.1818**	**0.2716**	**28.9124**	**0.1565**	**29.0689**	**7.7304**	**0.1451**	**7.8755**		**28,093.8422**	**28,093.8422**	**1.0371**		**28,119.7691**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2840	1.2307	15.9634	0.0244		0.0379	0.0379		0.0379	0.0379	0.0000	2,348.9966	2,348.9966	0.5812		2,363.5275
Total	**0.2840**	**1.2307**	**15.9634**	**0.0244**		**0.0379**	**0.0379**		**0.0379**	**0.0379**	**0.0000**	**2,348.9966**	**2,348.9966**	**0.5812**		**2,363.5275**

3.5 Building Construction - 2029

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.7579	26.9438	10.1430	0.0963	2.7791	0.0321	2.8112	0.7997	0.0307	0.8304		10,585.9014	10,585.9014	0.7905		10,605.6642
Worker	6.5986	2.8449	39.0388	0.1754	26.1333	0.1244	26.2577	6.9307	0.1144	7.0451		17,507.9408	17,507.9408	0.2466		17,514.1049
Total	**7.3565**	**29.7887**	**49.1818**	**0.2716**	**28.9124**	**0.1565**	**29.0689**	**7.7304**	**0.1451**	**7.8755**		**28,093.8422**	**28,093.8422**	**1.0371**		**28,119.7691**

3.6 Paving - 2029

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.9152**	**8.5816**	**14.5780**	**0.0228**		**0.4185**	**0.4185**		**0.3850**	**0.3850**		**2,206.7452**	**2,206.7452**	**0.7137**		**2,224.5878**

3.6 Paving - 2029

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0423	0.0183	0.2505	1.1300e-003	0.1677	8.0000e-004	0.1685	0.0445	7.3000e-004	0.0452		112.3264	112.3264	1.5800e-003		112.3659
Total	**0.0423**	**0.0183**	**0.2505**	**1.1300e-003**	**0.1677**	**8.0000e-004**	**0.1685**	**0.0445**	**7.3000e-004**	**0.0452**		**112.3264**	**112.3264**	**1.5800e-003**		**112.3659**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2805	1.2154	17.2957	0.0228		0.0374	0.0374		0.0374	0.0374	0.0000	2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.2805**	**1.2154**	**17.2957**	**0.0228**		**0.0374**	**0.0374**		**0.0374**	**0.0374**	**0.0000**	**2,206.7452**	**2,206.7452**	**0.7137**		**2,224.5878**

3.6 Paving - 2029

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0423	0.0183	0.2505	1.1300e-003	0.1677	8.0000e-004	0.1685	0.0445	7.3000e-004	0.0452		112.3264	112.3264	1.5800e-003		112.3659
Total	**0.0423**	**0.0183**	**0.2505**	**1.1300e-003**	**0.1677**	**8.0000e-004**	**0.1685**	**0.0445**	**7.3000e-004**	**0.0452**		**112.3264**	**112.3264**	**1.5800e-003**		**112.3659**

3.7 Architectural Coating - 2029

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	56.3856					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	**56.5564**	**1.1455**	**1.8091**	**2.9700e-003**		**0.0515**	**0.0515**		**0.0515**	**0.0515**		**281.4481**	**281.4481**	**0.0154**		**281.8319**

3.7 Architectural Coating - 2029

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	1.3208	0.5695	7.8144	0.0351	5.2311	0.0249	5.2560	1.3873	0.0229	1.4102		3,504.5835	3,504.5835	0.0494		3,505.8174
Total	**1.3208**	**0.5695**	**7.8144**	**0.0351**	**5.2311**	**0.0249**	**5.2560**	**1.3873**	**0.0229**	**1.4102**		**3,504.5835**	**3,504.5835**	**0.0494**		**3,505.8174**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	56.3856					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0154		281.8319
Total	**56.4153**	**0.1288**	**1.8324**	**2.9700e-003**		**3.9600e-003**	**3.9600e-003**		**3.9600e-003**	**3.9600e-003**	**0.0000**	**281.4481**	**281.4481**	**0.0154**		**281.8319**

3.7 Architectural Coating - 2029

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	1.3208	0.5695	7.8144	0.0351	5.2311	0.0249	5.2560	1.3873	0.0229	1.4102		3,504.5835	3,504.5835	0.0494		3,505.8174
Total	**1.3208**	**0.5695**	**7.8144**	**0.0351**	**5.2311**	**0.0249**	**5.2560**	**1.3873**	**0.0229**	**1.4102**		**3,504.5835**	**3,504.5835**	**0.0494**		**3,505.8174**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	27.8747	126.3178	356.9235	1.8248	230.5587	0.9079	231.4666	61.6569	0.8426	62.4995		187,337.5180	187,337.5180	7.0153		187,512.9015
Unmitigated	27.8747	126.3178	356.9235	1.8248	230.5587	0.9079	231.4666	61.6569	0.8426	62.4995		187,337.5180	187,337.5180	7.0153		187,512.9015

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	15,960.00	15,336.00	14064.00	53,307,570	53,307,570
Apartments Mid Rise	2,327.50	2,236.50	2051.00	7,774,021	7,774,021
Arena	2,721.41	2,721.41	2721.41	5,874,171	5,874,171
Regional Shopping Center	1,708.00	1,998.80	1009.60	3,568,198	3,568,198
University/College (4Yr)	11,970.00	9,100.00	0.00	29,588,293	29,588,293
Total	34,686.91	31,392.71	19,846.01	100,112,252	100,112,252

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Arena	16.60	8.40	6.90	0.00	81.00	19.00	66	28	6
Regional Shopping Center	16.60	8.40	6.90	16.30	64.70	19.00	54	35	11
University/College (4Yr)	16.60	8.40	6.90	6.40	88.60	5.00	91	9	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.570257	0.042258	0.208917	0.102527	0.012284	0.005810	0.027501	0.020703	0.001922	0.001419	0.005012	0.000641	0.000749
Arena	0.570257	0.042258	0.208917	0.102527	0.012284	0.005810	0.027501	0.020703	0.001922	0.001419	0.005012	0.000641	0.000749
Regional Shopping Center	0.570257	0.042258	0.208917	0.102527	0.012284	0.005810	0.027501	0.020703	0.001922	0.001419	0.005012	0.000641	0.000749
University/College (4Yr)	0.570257	0.042258	0.208917	0.102527	0.012284	0.005810	0.027501	0.020703	0.001922	0.001419	0.005012	0.000641	0.000749

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	1.3450	11.7212	6.5573	0.0734		0.9293	0.9293		0.9293	0.9293		14,673.2135	14,673.2135	0.2812	0.2690	14,760.4091
NaturalGas Unmitigated	1.3450	11.7212	6.5573	0.0734		0.9293	0.9293		0.9293	0.9293		14,673.2135	14,673.2135	0.2812	0.2690	14,760.4091

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	75139.5	0.8103	6.9246	2.9467	0.0442		0.5599	0.5599		0.5599	0.5599		8,839.9368	8,839.9368	0.1694	0.1621	8,892.4682
Apartments Mid Rise	10957.8	0.1182	1.0098	0.4297	6.4500e-003		0.0817	0.0817		0.0817	0.0817		1,289.1575	1,289.1575	0.0247	0.0236	1,296.8183
Arena	14549.8	0.1569	1.4265	1.1982	8.5600e-003		0.1084	0.1084		0.1084	0.1084		1,711.7454	1,711.7454	0.0328	0.0314	1,721.9174
Regional Shopping Center	219.178	2.3600e-003	0.0215	0.0181	1.3000e-004		1.6300e-003	1.6300e-003		1.6300e-003	1.6300e-003		25.7857	25.7857	4.9000e-004	4.7000e-004	25.9389
University/College (4Yr)	23856	0.2573	2.3388	1.9646	0.0140		0.1778	0.1778		0.1778	0.1778		2,806.5882	2,806.5882	0.0538	0.0515	2,823.2664
Total		**1.3450**	**11.7212**	**6.5573**	**0.0734**		**0.9293**	**0.9293**		**0.9293**	**0.9293**		**14,673.2136**	**14,673.2136**	**0.2812**	**0.2690**	**14,760.4091**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	10.9578	0.1182	1.0098	0.4297	6.4500e-003		0.0817	0.0817		0.0817	0.0817		1,289.1575	1,289.1575	0.0247	0.0236	1,296.8183
Apartments Mid Rise	75.1395	0.8103	6.9246	2.9467	0.0442		0.5599	0.5599		0.5599	0.5599		8,839.9368	8,839.9368	0.1694	0.1621	8,892.4682
Arena	14.5498	0.1569	1.4265	1.1982	8.5600e-003		0.1084	0.1084		0.1084	0.1084		1,711.7454	1,711.7454	0.0328	0.0314	1,721.9174
Regional Shopping Center	0.219178	2.3600e-003	0.0215	0.0181	1.3000e-004		1.6300e-003	1.6300e-003		1.6300e-003	1.6300e-003		25.7857	25.7857	4.9000e-004	4.7000e-004	25.9389
University/College (4Yr)	23.856	0.2573	2.3388	1.9646	0.0140		0.1778	0.1778		0.1778	0.1778		2,806.5882	2,806.5882	0.0538	0.0515	2,823.2664
Total		**1.3450**	**11.7212**	**6.5573**	**0.0734**		**0.9293**	**0.9293**		**0.9293**	**0.9293**		**14,673.2136**	**14,673.2136**	**0.2812**	**0.2690**	**14,760.4091**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	53.9045	2.6150	226.8215	0.0120		1.2608	1.2608		1.2608	1.2608	0.0000	410.1152	410.1152	0.3930	0.0000	419.9401
Unmitigated	53.9045	2.6150	226.8215	0.0120		1.2608	1.2608		1.2608	1.2608	0.0000	410.1152	410.1152	0.3930	0.0000	419.9401

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	3.3986					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	43.6784					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	6.8275	2.6150	226.8215	0.0120		1.2608	1.2608		1.2608	1.2608		410.1152	410.1152	0.3930		419.9401
Total	**53.9044**	**2.6150**	**226.8215**	**0.0120**		**1.2608**	**1.2608**		**1.2608**	**1.2608**	**0.0000**	**410.1152**	**410.1152**	**0.3930**	**0.0000**	**419.9401**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	3.3986					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	43.6784					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	6.8275	2.6150	226.8215	0.0120		1.2608	1.2608		1.2608	1.2608		410.1152	410.1152	0.3930		419.9401
Total	**53.9044**	**2.6150**	**226.8215**	**0.0120**		**1.2608**	**1.2608**		**1.2608**	**1.2608**	**0.0000**	**410.1152**	**410.1152**	**0.3930**	**0.0000**	**419.9401**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

CSUF MPU - Construction Phase 2

Orange County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
University/College (4Yr)	7,000.00	Student	29.54	660,509.00	0
Unenclosed Parking with Elevator	838.70	1000sqft	19.25	838,700.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	30
Climate Zone	8			**Operational Year**	2035
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

CSUF MPU - Construction Phase 2 - Orange County, Annual

Project Characteristics - CalEEMod operational years jump from 2035 to 2040, therefore earlier (more conservative) year of 2035 used for project buildout of 2039

Land Use - CalEEMod only allows for student # input for education; student # input calibrated to equal proposed SF, does not represent # of students served by land use; educational includes campus amenities, academic space, and arboretum facilities.

Construction Phase - Construction phases extended through 2024

Trips and VMT -

Grading -

Architectural Coating - Compliance with SCAQMD Rule 1113

Area Coating -

Energy Use -

Water And Wastewater -

Solid Waste -

Construction Off-road Equipment Mitigation - Construction would require Tier 4 engines; projects would comply with SCAQMD rules re: fugitive dust

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	50.00	100.00
tblConstructionPhase	NumDays	30.00	60.00
tblConstructionPhase	NumDays	75.00	150.00
tblConstructionPhase	NumDays	55.00	110.00
tblConstructionPhase	NumDays	55.00	110.00
tblGrading	MaterialExported	0.00	267,440.00
tblGrading	MaterialImported	0.00	133,720.00
tblLandUse	LandUseSquareFeet	1,286,582.28	660,509.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2030	0.4236	3.8289	3.8925	0.0189	1.5562	0.0598	1.6161	0.6130	0.0596	0.6726	0.0000	1,850.6615	1,850.6615	0.1557	0.0000	1,854.5543
2031	0.4284	3.7681	4.3319	0.0209	1.6307	0.0329	1.6636	0.4416	0.0325	0.4741	0.0000	2,004.4322	2,004.4322	0.1242	0.0000	2,007.5364
2032	0.3723	2.9301	3.8366	0.0167	1.1089	0.0230	1.1319	0.2991	0.0226	0.3217	0.0000	1,566.4901	1,566.4901	0.0694	0.0000	1,568.2250
2033	0.3591	2.8869	3.7527	0.0165	1.1004	0.0226	1.1230	0.2968	0.0222	0.3191	0.0000	1,544.1856	1,544.1856	0.0682	0.0000	1,545.8893
2034	1.7530	0.5118	1.1592	2.6200e-003	0.1105	0.0201	0.1306	0.0295	0.0201	0.0495	0.0000	230.5176	230.5176	8.8600e-003	0.0000	230.7391
Maximum	**1.7530**	**3.8289**	**4.3319**	**0.0209**	**1.6307**	**0.0598**	**1.6636**	**0.6130**	**0.0596**	**0.6726**	**0.0000**	**2,004.4322**	**2,004.4322**	**0.1557**	**0.0000**	**2,007.5364**

2.1 Overall Construction

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2030	0.1566	2.5581	4.7518	0.0189	0.9344	0.0146	0.9490	0.3382	0.0144	0.3526	0.0000	1,850.6607	1,850.6607	0.1557	0.0000	1,854.5536
2031	0.2754	2.9258	4.7256	0.0209	1.4277	0.0135	1.4412	0.3833	0.0131	0.3964	0.0000	2,004.4317	2,004.4317	0.1242	0.0000	2,007.5359
2032	0.2595	2.2084	4.0210	0.0167	1.1089	0.0107	1.1196	0.2991	0.0103	0.3095	0.0000	1,566.4898	1,566.4898	0.0694	0.0000	1,568.2247
2033	0.2472	2.1708	3.9357	0.0165	1.1004	0.0104	1.1108	0.2968	0.0100	0.3069	0.0000	1,544.1852	1,544.1852	0.0682	0.0000	1,545.8889
2034	1.6841	0.1305	1.2448	2.6200e-003	0.1105	2.8000e-003	0.1133	0.0295	2.7700e-003	0.0322	0.0000	230.5174	230.5174	8.8600e-003	0.0000	230.7389
Maximum	**1.6841**	**2.9258**	**4.7518**	**0.0209**	**1.4277**	**0.0146**	**1.4412**	**0.3833**	**0.0144**	**0.3964**	**0.0000**	**2,004.4317**	**2,004.4317**	**0.1557**	**0.0000**	**2,007.5359**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**21.39**	**28.24**	**-10.05**	**0.00**	**14.98**	**67.19**	**16.44**	**19.82**	**67.79**	**23.92**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**1-1-2030**	**3-31-2030**	0.4075	0.1058
2	**4-1-2030**	**6-30-2030**	0.4629	0.0958
3	**7-1-2030**	**9-30-2030**	1.3178	0.8799
4	**10-1-2030**	**12-31-2030**	2.0152	1.5859
5	**1-1-2031**	**3-31-2031**	1.6784	1.3087
6	**4-1-2031**	**6-30-2031**	0.8203	0.6133

7	**7-1-2031**	**9-30-2031**	0.8293	0.6200
8	**10-1-2031**	**12-31-2031**	0.8362	0.6269
9	**1-1-2032**	**3-31-2032**	0.8182	0.6111
10	**4-1-2032**	**6-30-2032**	0.8119	0.6049
11	**7-1-2032**	**9-30-2032**	0.8208	0.6115
12	**10-1-2032**	**12-31-2032**	0.8271	0.6178
13	**1-1-2033**	**3-31-2033**	0.8013	0.5966
14	**4-1-2033**	**6-30-2033**	0.8044	0.5974
15	**7-1-2033**	**9-30-2033**	0.8133	0.6040
16	**10-1-2033**	**12-31-2033**	0.8191	0.6098
17	**1-1-2034**	**3-31-2034**	0.3267	0.1035
18	**4-1-2034**	**6-30-2034**	0.4237	0.2357
19	**7-1-2034**	**9-30-2034**	1.0272	1.0000
		Highest	2.0152	1.5859

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	2.7679	8.9000e-004	0.0995	1.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004	0.0000	0.1945	0.1945	5.0000e-004	0.0000	0.2071
Energy	0.0546	0.4964	0.4169	2.9800e-003		0.0377	0.0377		0.0377	0.0377	0.0000	3,657.8488	3,657.8488	0.1391	0.0365	3,672.2127
Mobile	1.3658	6.4764	18.0126	0.0917	11.2269	0.0451	11.2719	3.0067	0.0418	3.0486	0.0000	8,538.4079	8,538.4079	0.3153	0.0000	8,546.2901
Waste						0.0000	0.0000		0.0000	0.0000	259.3210	0.0000	259.3210	15.3254	0.0000	642.4567
Water						0.0000	0.0000		0.0000	0.0000	4.7549	145.1635	149.9184	0.4944	0.0128	166.0835
Total	**4.1882**	**6.9736**	**18.5290**	**0.0947**	**11.2269**	**0.0832**	**11.3100**	**3.0067**	**0.0799**	**3.0867**	**264.0759**	**12,341.6148**	**12,605.6907**	**16.2747**	**0.0493**	**13,027.2501**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	2.7679	8.9000e-004	0.0995	1.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004	0.0000	0.1945	0.1945	5.0000e-004	0.0000	0.2071
Energy	0.0546	0.4964	0.4169	2.9800e-003		0.0377	0.0377		0.0377	0.0377	0.0000	3,657.8488	3,657.8488	0.1391	0.0365	3,672.2127
Mobile	1.3658	6.4764	18.0126	0.0917	11.2269	0.0451	11.2719	3.0067	0.0418	3.0486	0.0000	8,538.4079	8,538.4079	0.3153	0.0000	8,546.2901
Waste						0.0000	0.0000		0.0000	0.0000	259.3210	0.0000	259.3210	15.3254	0.0000	642.4567
Water						0.0000	0.0000		0.0000	0.0000	4.7549	145.1635	149.9184	0.4944	0.0128	166.0835
Total	**4.1882**	**6.9736**	**18.5290**	**0.0947**	**11.2269**	**0.0832**	**11.3100**	**3.0067**	**0.0799**	**3.0867**	**264.0759**	**12,341.6148**	**12,605.6907**	**16.2747**	**0.0493**	**13,027.2501**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

CSUF MPU - Construction Phase 2 - Orange County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2030	5/20/2030	5	100	
2	Site Preparation	Site Preparation	5/21/2030	8/12/2030	5	60	
3	Grading	Grading	8/13/2030	3/10/2031	5	150	
4	Building Construction	Building Construction	3/11/2031	1/9/2034	5	740	
5	Paving	Paving	1/10/2034	6/12/2034	5	110	
6	Architectural Coating	Architectural Coating	6/13/2034	11/13/2034	5	110	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 375

Acres of Paving: 19.25

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 990,764; Non-Residential Outdoor: 330,255; Striped Parking Area: 50,322 (Architectural Coating – sqft)

OffRoad Equipment

CSUF MPU - Construction Phase 2 - Orange County, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	0	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	582.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	50,145.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	630.00	246.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	126.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 2030

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0630	0.0000	0.0630	9.5400e-003	0.0000	9.5400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1037	0.4889	0.9458	2.3100e-003		0.0176	0.0176		0.0176	0.0176	0.0000	198.6091	198.6091	8.3800e-003	0.0000	198.8186
Total	**0.1037**	**0.4889**	**0.9458**	**2.3100e-003**	**0.0630**	**0.0176**	**0.0806**	**9.5400e-003**	**0.0176**	**0.0271**	**0.0000**	**198.6091**	**198.6091**	**8.3800e-003**	**0.0000**	**198.8186**

3.2 Demolition - 2030

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.2800e-003	0.0378	0.0213	2.0000e-004	4.9900e-003	7.0000e-005	5.0600e-003	1.3700e-003	7.0000e-005	1.4400e-003	0.0000	20.0985	20.0985	2.1700e-003	0.0000	20.1527
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.7700e-003	8.7000e-004	0.0122	6.0000e-005	8.2300e-003	4.0000e-005	8.2700e-003	2.1900e-003	3.0000e-005	2.2200e-003	0.0000	5.0501	5.0501	7.0000e-005	0.0000	5.0517
Total	**3.0500e-003**	**0.0386**	**0.0335**	**2.6000e-004**	**0.0132**	**1.1000e-004**	**0.0133**	**3.5600e-003**	**1.0000e-004**	**3.6600e-003**	**0.0000**	**25.1486**	**25.1486**	**2.2400e-003**	**0.0000**	**25.2044**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0284	0.0000	0.0284	4.2900e-003	0.0000	4.2900e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0231	0.1002	1.1640	2.3100e-003		3.0800e-003	3.0800e-003		3.0800e-003	3.0800e-003	0.0000	198.6089	198.6089	8.3800e-003	0.0000	198.8184
Total	**0.0231**	**0.1002**	**1.1640**	**2.3100e-003**	**0.0284**	**3.0800e-003**	**0.0314**	**4.2900e-003**	**3.0800e-003**	**7.3700e-003**	**0.0000**	**198.6089**	**198.6089**	**8.3800e-003**	**0.0000**	**198.8184**

3.2 Demolition - 2030

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.2800e-003	0.0378	0.0213	2.0000e-004	4.9900e-003	7.0000e-005	5.0600e-003	1.3700e-003	7.0000e-005	1.4400e-003	0.0000	20.0985	20.0985	2.1700e-003	0.0000	20.1527
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.7700e-003	8.7000e-004	0.0122	6.0000e-005	8.2300e-003	4.0000e-005	8.2700e-003	2.1900e-003	3.0000e-005	2.2200e-003	0.0000	5.0501	5.0501	7.0000e-005	0.0000	5.0517
Total	**3.0500e-003**	**0.0386**	**0.0335**	**2.6000e-004**	**0.0132**	**1.1000e-004**	**0.0133**	**3.5600e-003**	**1.0000e-004**	**3.6600e-003**	**0.0000**	**25.1486**	**25.1486**	**2.2400e-003**	**0.0000**	**25.2044**

3.3 Site Preparation - 2030

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.5420	0.0000	0.5420	0.2979	0.0000	0.2979	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0732	0.4100	0.4888	1.4000e-003		0.0131	0.0131		0.0131	0.0131	0.0000	120.0138	120.0138	5.9200e-003	0.0000	120.1619
Total	**0.0732**	**0.4100**	**0.4888**	**1.4000e-003**	**0.5420**	**0.0131**	**0.5551**	**0.2979**	**0.0131**	**0.3110**	**0.0000**	**120.0138**	**120.0138**	**5.9200e-003**	**0.0000**	**120.1619**

3.3 Site Preparation - 2030

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2700e-003	6.3000e-004	8.7700e-003	4.0000e-005	5.9300e-003	3.0000e-005	5.9500e-003	1.5700e-003	2.0000e-005	1.6000e-003	0.0000	3.6360	3.6360	5.0000e-005	0.0000	3.6373
Total	**1.2700e-003**	**6.3000e-004**	**8.7700e-003**	**4.0000e-005**	**5.9300e-003**	**3.0000e-005**	**5.9500e-003**	**1.5700e-003**	**2.0000e-005**	**1.6000e-003**	**0.0000**	**3.6360**	**3.6360**	**5.0000e-005**	**0.0000**	**3.6373**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2439	0.0000	0.2439	0.1341	0.0000	0.1341	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0140	0.0605	0.6261	1.4000e-003		1.8600e-003	1.8600e-003		1.8600e-003	1.8600e-003	0.0000	120.0137	120.0137	5.9200e-003	0.0000	120.1617
Total	**0.0140**	**0.0605**	**0.6261**	**1.4000e-003**	**0.2439**	**1.8600e-003**	**0.2458**	**0.1341**	**1.8600e-003**	**0.1359**	**0.0000**	**120.0137**	**120.0137**	**5.9200e-003**	**0.0000**	**120.1617**

3.3 Site Preparation - 2030

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2700e-003	6.3000e-004	8.7700e-003	4.0000e-005	5.9300e-003	3.0000e-005	5.9500e-003	1.5700e-003	2.0000e-005	1.6000e-003	0.0000	3.6360	3.6360	5.0000e-005	0.0000	3.6373
Total	**1.2700e-003**	**6.3000e-004**	**8.7700e-003**	**4.0000e-005**	**5.9300e-003**	**3.0000e-005**	**5.9500e-003**	**1.5700e-003**	**2.0000e-005**	**1.6000e-003**	**0.0000**	**3.6360**	**3.6360**	**5.0000e-005**	**0.0000**	**3.6373**

3.4 Grading - 2030

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.5256	0.0000	0.5256	0.1921	0.0000	0.1921	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1657	0.6992	1.1627	3.5300e-003		0.0246	0.0246		0.0246	0.0246	0.0000	330.4529	330.4529	0.0134	0.0000	330.7868
Total	**0.1657**	**0.6992**	**1.1627**	**3.5300e-003**	**0.5256**	**0.0246**	**0.5503**	**0.1921**	**0.0246**	**0.2167**	**0.0000**	**330.4529**	**330.4529**	**0.0134**	**0.0000**	**330.7868**

3.4 Grading - 2030

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0743	2.1904	1.2366	0.0113	0.3954	4.3300e-003	0.3997	0.1054	4.1500e-003	0.1095	0.0000	1,166.0002	1,166.0002	0.1257	0.0000	1,169.1424
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.3800e-003	1.1700e-003	0.0164	8.0000e-005	0.0111	5.0000e-005	0.0111	2.9400e-003	5.0000e-005	2.9900e-003	0.0000	6.8007	6.8007	9.0000e-005	0.0000	6.8030
Total	**0.0767**	**2.1915**	**1.2530**	**0.0114**	**0.4065**	**4.3800e-003**	**0.4108**	**0.1083**	**4.2000e-003**	**0.1125**	**0.0000**	**1,172.8010**	**1,172.8010**	**0.1258**	**0.0000**	**1,175.9454**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2365	0.0000	0.2365	0.0864	0.0000	0.0864	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0385	0.1667	1.6665	3.5300e-003		5.1300e-003	5.1300e-003		5.1300e-003	5.1300e-003	0.0000	330.4525	330.4525	0.0134	0.0000	330.7864
Total	**0.0385**	**0.1667**	**1.6665**	**3.5300e-003**	**0.2365**	**5.1300e-003**	**0.2417**	**0.0864**	**5.1300e-003**	**0.0916**	**0.0000**	**330.4525**	**330.4525**	**0.0134**	**0.0000**	**330.7864**

3.4 Grading - 2030

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0743	2.1904	1.2366	0.0113	0.3954	4.3300e-003	0.3997	0.1054	4.1500e-003	0.1095	0.0000	1,166.0002	1,166.0002	0.1257	0.0000	1,169.1424
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.3800e-003	1.1700e-003	0.0164	8.0000e-005	0.0111	5.0000e-005	0.0111	2.9400e-003	5.0000e-005	2.9900e-003	0.0000	6.8007	6.8007	9.0000e-005	0.0000	6.8030
Total	**0.0767**	**2.1915**	**1.2530**	**0.0114**	**0.4065**	**4.3800e-003**	**0.4108**	**0.1083**	**4.2000e-003**	**0.1125**	**0.0000**	**1,172.8010**	**1,172.8010**	**0.1258**	**0.0000**	**1,175.9454**

3.4 Grading - 2031

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.3691	0.0000	0.3691	0.1060	0.0000	0.1060	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0804	0.3392	0.5641	1.7100e-003		0.0120	0.0120		0.0120	0.0120	0.0000	160.3187	160.3187	6.4800e-003	0.0000	160.4807
Total	**0.0804**	**0.3392**	**0.5641**	**1.7100e-003**	**0.3691**	**0.0120**	**0.3810**	**0.1060**	**0.0120**	**0.1180**	**0.0000**	**160.3187**	**160.3187**	**6.4800e-003**	**0.0000**	**160.4807**

3.4 Grading - 2031

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0358	1.0388	0.6041	5.4700e-003	0.3590	2.0700e-003	0.3610	0.0921	1.9800e-003	0.0941	0.0000	563.5477	563.5477	0.0608	0.0000	565.0683
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0800e-003	5.3000e-004	7.5400e-003	4.0000e-005	5.3800e-003	2.0000e-005	5.4000e-003	1.4300e-003	2.0000e-005	1.4500e-003	0.0000	3.2218	3.2218	4.0000e-005	0.0000	3.2228
Total	**0.0369**	**1.0394**	**0.6116**	**5.5100e-003**	**0.3644**	**2.0900e-003**	**0.3664**	**0.0936**	**2.0000e-003**	**0.0956**	**0.0000**	**566.7694**	**566.7694**	**0.0609**	**0.0000**	**568.2911**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1661	0.0000	0.1661	0.0477	0.0000	0.0477	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0187	0.0809	0.8085	1.7100e-003		2.4900e-003	2.4900e-003		2.4900e-003	2.4900e-003	0.0000	160.3186	160.3186	6.4800e-003	0.0000	160.4805
Total	**0.0187**	**0.0809**	**0.8085**	**1.7100e-003**	**0.1661**	**2.4900e-003**	**0.1686**	**0.0477**	**2.4900e-003**	**0.0502**	**0.0000**	**160.3186**	**160.3186**	**6.4800e-003**	**0.0000**	**160.4805**

3.4 Grading - 2031

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0358	1.0388	0.6041	5.4700e-003	0.3590	2.0700e-003	0.3610	0.0921	1.9800e-003	0.0941	0.0000	563.5477	563.5477	0.0608	0.0000	565.0683
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0800e-003	5.3000e-004	7.5400e-003	4.0000e-005	5.3800e-003	2.0000e-005	5.4000e-003	1.4300e-003	2.0000e-005	1.4500e-003	0.0000	3.2218	3.2218	4.0000e-005	0.0000	3.2228
Total	**0.0369**	**1.0394**	**0.6116**	**5.5100e-003**	**0.3644**	**2.0900e-003**	**0.3664**	**0.0936**	**2.0000e-003**	**0.0956**	**0.0000**	**566.7694**	**566.7694**	**0.0609**	**0.0000**	**568.2911**

3.5 Building Construction - 2031

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1214	0.7144	1.5429	3.0100e-003		0.0140	0.0140		0.0140	0.0140	0.0000	258.6813	258.6813	9.7700e-003	0.0000	258.9256
Total	**0.1214**	**0.7144**	**1.5429**	**3.0100e-003**		**0.0140**	**0.0140**		**0.0140**	**0.0140**	**0.0000**	**258.6813**	**258.6813**	**9.7700e-003**	**0.0000**	**258.9256**

3.5 Building Construction - 2031

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0430	1.6031	0.5860	5.8000e-003	0.1642	1.8200e-003	0.1660	0.0473	1.7400e-003	0.0491	0.0000	579.5801	579.5801	0.0415	0.0000	580.6180
Worker	0.1467	0.0720	1.0274	4.8500e-003	0.7331	3.0700e-003	0.7362	0.1947	2.8200e-003	0.1975	0.0000	439.0826	439.0826	5.5400e-003	0.0000	439.2211
Total	**0.1897**	**1.6751**	**1.6134**	**0.0107**	**0.8973**	**4.8900e-003**	**0.9022**	**0.2420**	**4.5600e-003**	**0.2466**	**0.0000**	**1,018.6628**	**1,018.6628**	**0.0471**	**0.0000**	**1,019.8390**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0301	0.1305	1.6921	3.0100e-003		4.0100e-003	4.0100e-003		4.0100e-003	4.0100e-003	0.0000	258.6810	258.6810	9.7700e-003	0.0000	258.9253
Total	**0.0301**	**0.1305**	**1.6921**	**3.0100e-003**		**4.0100e-003**	**4.0100e-003**		**4.0100e-003**	**4.0100e-003**	**0.0000**	**258.6810**	**258.6810**	**9.7700e-003**	**0.0000**	**258.9253**

3.5 Building Construction - 2031

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0430	1.6031	0.5860	5.8000e-003	0.1642	1.8200e-003	0.1660	0.0473	1.7400e-003	0.0491	0.0000	579.5801	579.5801	0.0415	0.0000	580.6180
Worker	0.1467	0.0720	1.0274	4.8500e-003	0.7331	3.0700e-003	0.7362	0.1947	2.8200e-003	0.1975	0.0000	439.0826	439.0826	5.5400e-003	0.0000	439.2211
Total	**0.1897**	**1.6751**	**1.6134**	**0.0107**	**0.8973**	**4.8900e-003**	**0.9022**	**0.2420**	**4.5600e-003**	**0.2466**	**0.0000**	**1,018.6628**	**1,018.6628**	**0.0471**	**0.0000**	**1,019.8390**

3.5 Building Construction - 2032

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1500	0.8829	1.9068	3.7200e-003		0.0173	0.0173		0.0173	0.0173	0.0000	319.6910	319.6910	0.0121	0.0000	319.9930
Total	**0.1500**	**0.8829**	**1.9068**	**3.7200e-003**		**0.0173**	**0.0173**		**0.0173**	**0.0173**	**0.0000**	**319.6910**	**319.6910**	**0.0121**	**0.0000**	**319.9930**

3.5 Building Construction - 2032

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0526	1.9642	0.7239	7.1500e-003	0.2029	2.2200e-003	0.2051	0.0585	2.1200e-003	0.0606	0.0000	714.3474	714.3474	0.0510	0.0000	715.6215
Worker	0.1696	0.0830	1.2059	5.8800e-003	0.9060	3.5400e-003	0.9096	0.2406	3.2600e-003	0.2439	0.0000	532.4517	532.4517	6.3500e-003	0.0000	532.6106
Total	**0.2223**	**2.0472**	**1.9298**	**0.0130**	**1.1089**	**5.7600e-003**	**1.1146**	**0.2991**	**5.3800e-003**	**0.3045**	**0.0000**	**1,246.7991**	**1,246.7991**	**0.0573**	**0.0000**	**1,248.2320**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0372	0.1612	2.0912	3.7200e-003		4.9600e-003	4.9600e-003		4.9600e-003	4.9600e-003	0.0000	319.6907	319.6907	0.0121	0.0000	319.9926
Total	**0.0372**	**0.1612**	**2.0912**	**3.7200e-003**		**4.9600e-003**	**4.9600e-003**		**4.9600e-003**	**4.9600e-003**	**0.0000**	**319.6907**	**319.6907**	**0.0121**	**0.0000**	**319.9926**

3.5 Building Construction - 2032

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0526	1.9642	0.7239	7.1500e-003	0.2029	2.2200e-003	0.2051	0.0585	2.1200e-003	0.0606	0.0000	714.3474	714.3474	0.0510	0.0000	715.6215
Worker	0.1696	0.0830	1.2059	5.8800e-003	0.9060	3.5400e-003	0.9096	0.2406	3.2600e-003	0.2439	0.0000	532.4517	532.4517	6.3500e-003	0.0000	532.6106
Total	**0.2223**	**2.0472**	**1.9298**	**0.0130**	**1.1089**	**5.7600e-003**	**1.1146**	**0.2991**	**5.3800e-003**	**0.3045**	**0.0000**	**1,246.7991**	**1,246.7991**	**0.0573**	**0.0000**	**1,248.2320**

3.5 Building Construction - 2033

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1489	0.8762	1.8922	3.6900e-003		0.0171	0.0171		0.0171	0.0171	0.0000	317.2506	317.2506	0.0120	0.0000	317.5503
Total	**0.1489**	**0.8762**	**1.8922**	**3.6900e-003**		**0.0171**	**0.0171**		**0.0171**	**0.0171**	**0.0000**	**317.2506**	**317.2506**	**0.0120**	**0.0000**	**317.5503**

3.5 Building Construction - 2033

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0518	1.9335	0.7187	7.0700e-003	0.2013	2.1700e-003	0.2035	0.0581	2.0700e-003	0.0601	0.0000	707.2580	707.2580	0.0503	0.0000	708.5148
Worker	0.1584	0.0773	1.1418	5.7400e-003	0.8991	3.2900e-003	0.9024	0.2388	3.0300e-003	0.2418	0.0000	519.6770	519.6770	5.8900e-003	0.0000	519.8242
Total	**0.2102**	**2.0108**	**1.8605**	**0.0128**	**1.1004**	**5.4600e-003**	**1.1059**	**0.2968**	**5.1000e-003**	**0.3019**	**0.0000**	**1,226.9349**	**1,226.9349**	**0.0562**	**0.0000**	**1,228.3390**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0369	0.1600	2.0752	3.6900e-003		4.9200e-003	4.9200e-003		4.9200e-003	4.9200e-003	0.0000	317.2503	317.2503	0.0120	0.0000	317.5499
Total	**0.0369**	**0.1600**	**2.0752**	**3.6900e-003**		**4.9200e-003**	**4.9200e-003**		**4.9200e-003**	**4.9200e-003**	**0.0000**	**317.2503**	**317.2503**	**0.0120**	**0.0000**	**317.5499**

3.5 Building Construction - 2033

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0518	1.9335	0.7187	7.0700e-003	0.2013	2.1700e-003	0.2035	0.0581	2.0700e-003	0.0601	0.0000	707.2580	707.2580	0.0503	0.0000	708.5148
Worker	0.1584	0.0773	1.1418	5.7400e-003	0.8991	3.2900e-003	0.9024	0.2388	3.0300e-003	0.2418	0.0000	519.6770	519.6770	5.8900e-003	0.0000	519.8242
Total	**0.2102**	**2.0108**	**1.8605**	**0.0128**	**1.1004**	**5.4600e-003**	**1.1059**	**0.2968**	**5.1000e-003**	**0.3019**	**0.0000**	**1,226.9349**	**1,226.9349**	**0.0562**	**0.0000**	**1,228.3390**

3.5 Building Construction - 2034

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.4400e-003	0.0202	0.0437	9.0000e-005		4.0000e-004	4.0000e-004		4.0000e-004	4.0000e-004	0.0000	7.3212	7.3212	2.8000e-004	0.0000	7.3281
Total	**3.4400e-003**	**0.0202**	**0.0437**	**9.0000e-005**		**4.0000e-004**	**4.0000e-004**		**4.0000e-004**	**4.0000e-004**	**0.0000**	**7.3212**	**7.3212**	**2.8000e-004**	**0.0000**	**7.3281**

3.5 Building Construction - 2034

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.1900e-003	0.0443	0.0166	1.6000e-004	4.6500e-003	5.0000e-005	4.6900e-003	1.3400e-003	5.0000e-005	1.3900e-003	0.0000	16.2902	16.2902	1.1500e-003	0.0000	16.3191
Worker	3.4600e-003	1.6900e-003	0.0252	1.3000e-004	0.0208	7.0000e-005	0.0208	5.5100e-003	7.0000e-005	5.5800e-003	0.0000	11.8193	11.8193	1.3000e-004	0.0000	11.8225
Total	**4.6500e-003**	**0.0460**	**0.0417**	**2.9000e-004**	**0.0254**	**1.2000e-004**	**0.0255**	**6.8500e-003**	**1.2000e-004**	**6.9700e-003**	**0.0000**	**28.1095**	**28.1095**	**1.2800e-003**	**0.0000**	**28.1415**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	8.5000e-004	3.6900e-003	0.0479	9.0000e-005		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	7.3212	7.3212	2.8000e-004	0.0000	7.3281
Total	**8.5000e-004**	**3.6900e-003**	**0.0479**	**9.0000e-005**		**1.1000e-004**	**1.1000e-004**		**1.1000e-004**	**1.1000e-004**	**0.0000**	**7.3212**	**7.3212**	**2.8000e-004**	**0.0000**	**7.3281**

3.5 Building Construction - 2034

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.1900e-003	0.0443	0.0166	1.6000e-004	4.6500e-003	5.0000e-005	4.6900e-003	1.3400e-003	5.0000e-005	1.3900e-003	0.0000	16.2902	16.2902	1.1500e-003	0.0000	16.3191
Worker	3.4600e-003	1.6900e-003	0.0252	1.3000e-004	0.0208	7.0000e-005	0.0208	5.5100e-003	7.0000e-005	5.5800e-003	0.0000	11.8193	11.8193	1.3000e-004	0.0000	11.8225
Total	**4.6500e-003**	**0.0460**	**0.0417**	**2.9000e-004**	**0.0254**	**1.2000e-004**	**0.0255**	**6.8500e-003**	**1.2000e-004**	**6.9700e-003**	**0.0000**	**28.1095**	**28.1095**	**1.2800e-003**	**0.0000**	**28.1415**

3.6 Paving - 2034

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0762	0.3916	0.8717	1.5400e-003		0.0182	0.0182		0.0182	0.0182	0.0000	132.5473	132.5473	6.2100e-003	0.0000	132.7027
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0762**	**0.3916**	**0.8717**	**1.5400e-003**		**0.0182**	**0.0182**		**0.0182**	**0.0182**	**0.0000**	**132.5473**	**132.5473**	**6.2100e-003**	**0.0000**	**132.7027**

3.6 Paving - 2034

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5100e-003	7.4000e-004	0.0110	6.0000e-005	9.0600e-003	3.0000e-005	9.0900e-003	2.4100e-003	3.0000e-005	2.4300e-003	0.0000	5.1592	5.1592	6.0000e-005	0.0000	5.1606
Total	**1.5100e-003**	**7.4000e-004**	**0.0110**	**6.0000e-005**	**9.0600e-003**	**3.0000e-005**	**9.0900e-003**	**2.4100e-003**	**3.0000e-005**	**2.4300e-003**	**0.0000**	**5.1592**	**5.1592**	**6.0000e-005**	**0.0000**	**5.1606**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0154	0.0669	0.9513	1.5400e-003		2.0600e-003	2.0600e-003		2.0600e-003	2.0600e-003	0.0000	132.5472	132.5472	6.2100e-003	0.0000	132.7025
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0154**	**0.0669**	**0.9513**	**1.5400e-003**		**2.0600e-003**	**2.0600e-003**		**2.0600e-003**	**2.0600e-003**	**0.0000**	**132.5472**	**132.5472**	**6.2100e-003**	**0.0000**	**132.7025**

3.6 Paving - 2034

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5100e-003	7.4000e-004	0.0110	6.0000e-005	9.0600e-003	3.0000e-005	9.0900e-003	2.4100e-003	3.0000e-005	2.4300e-003	0.0000	5.1592	5.1592	6.0000e-005	0.0000	5.1606
Total	**1.5100e-003**	**7.4000e-004**	**0.0110**	**6.0000e-005**	**9.0600e-003**	**3.0000e-005**	**9.0900e-003**	**2.4100e-003**	**3.0000e-005**	**2.4300e-003**	**0.0000**	**5.1592**	**5.1592**	**6.0000e-005**	**0.0000**	**5.1606**

3.7 Architectural Coating - 2034

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.6474					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.1900e-003	0.0471	0.0989	1.6000e-004		1.1200e-003	1.1200e-003		1.1200e-003	1.1200e-003	0.0000	14.0429	14.0429	5.7000e-004	0.0000	14.0571
Total	**1.6545**	**0.0471**	**0.0989**	**1.6000e-004**		**1.1200e-003**	**1.1200e-003**		**1.1200e-003**	**1.1200e-003**	**0.0000**	**14.0429**	**14.0429**	**5.7000e-004**	**0.0000**	**14.0571**

3.7 Architectural Coating - 2034

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0127	6.1800e-003	0.0922	4.8000e-004	0.0761	2.6000e-004	0.0763	0.0202	2.4000e-004	0.0204	0.0000	43.3374	43.3374	4.7000e-004	0.0000	43.3491
Total	**0.0127**	**6.1800e-003**	**0.0922**	**4.8000e-004**	**0.0761**	**2.6000e-004**	**0.0763**	**0.0202**	**2.4000e-004**	**0.0204**	**0.0000**	**43.3374**	**43.3374**	**4.7000e-004**	**0.0000**	**43.3491**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.6474					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.6300e-003	7.0800e-003	0.1008	1.6000e-004		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004	0.0000	14.0429	14.0429	5.7000e-004	0.0000	14.0571
Total	**1.6490**	**7.0800e-003**	**0.1008**	**1.6000e-004**		**2.2000e-004**	**2.2000e-004**		**2.2000e-004**	**2.2000e-004**	**0.0000**	**14.0429**	**14.0429**	**5.7000e-004**	**0.0000**	**14.0571**

3.7 Architectural Coating - 2034

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0127	6.1800e-003	0.0922	4.8000e-004	0.0761	2.6000e-004	0.0763	0.0202	2.4000e-004	0.0204	0.0000	43.3374	43.3374	4.7000e-004	0.0000	43.3491
Total	**0.0127**	**6.1800e-003**	**0.0922**	**4.8000e-004**	**0.0761**	**2.6000e-004**	**0.0763**	**0.0202**	**2.4000e-004**	**0.0204**	**0.0000**	**43.3374**	**43.3374**	**4.7000e-004**	**0.0000**	**43.3491**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.3658	6.4764	18.0126	0.0917	11.2269	0.0451	11.2719	3.0067	0.0418	3.0486	0.0000	8,538.4079	8,538.4079	0.3153	0.0000	8,546.2901
Unmitigated	1.3658	6.4764	18.0126	0.0917	11.2269	0.0451	11.2719	3.0067	0.0418	3.0486	0.0000	8,538.4079	8,538.4079	0.3153	0.0000	8,546.2901

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Unenclosed Parking with Elevator	0.00	0.00	0.00		
University/College (4Yr)	11,970.00	9,100.00	0.00	29,588,293	29,588,293
Total	11,970.00	9,100.00	0.00	29,588,293	29,588,293

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Unenclosed Parking with	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
University/College (4Yr)	16.60	8.40	6.90	6.40	88.60	5.00	91	9	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Unenclosed Parking with Elevator	0.570257	0.042258	0.208917	0.102527	0.012284	0.005810	0.027501	0.020703	0.001922	0.001419	0.005012	0.000641	0.000749
University/College (4Yr)	0.570257	0.042258	0.208917	0.102527	0.012284	0.005810	0.027501	0.020703	0.001922	0.001419	0.005012	0.000641	0.000749

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	3,117.5080	3,117.5080	0.1287	0.0266	3,128.6610
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	3,117.5080	3,117.5080	0.1287	0.0266	3,128.6610
NaturalGas Mitigated	0.0546	0.4964	0.4169	2.9800e-003		0.0377	0.0377		0.0377	0.0377	0.0000	540.3407	540.3407	0.0104	9.9100e-003	543.5517
NaturalGas Unmitigated	0.0546	0.4964	0.4169	2.9800e-003		0.0377	0.0377		0.0377	0.0377	0.0000	540.3407	540.3407	0.0104	9.9100e-003	543.5517

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
University/College (4Yr)	1.01256e+007	0.0546	0.4964	0.4169	2.9800e-003		0.0377	0.0377		0.0377	0.0377	0.0000	540.3407	540.3407	0.0104	9.9100e-003	543.5517
Total		**0.0546**	**0.4964**	**0.4169**	**2.9800e-003**		**0.0377**	**0.0377**		**0.0377**	**0.0377**	**0.0000**	**540.3407**	**540.3407**	**0.0104**	**9.9100e-003**	**543.5517**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
University/College (4Yr)	1.01256e+007	0.0546	0.4964	0.4169	2.9800e-003		0.0377	0.0377		0.0377	0.0377	0.0000	540.3407	540.3407	0.0104	9.9100e-003	543.5517
Total		**0.0546**	**0.4964**	**0.4169**	**2.9800e-003**		**0.0377**	**0.0377**		**0.0377**	**0.0377**	**0.0000**	**540.3407**	**540.3407**	**0.0104**	**9.9100e-003**	**543.5517**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Unenclosed Parking with Elevator	1.62708e+006	518.4219	0.0214	4.4300e-003	520.2766
University/College (4Yr)	8.15729e+006	2,599.0861	0.1073	0.0222	2,608.3844
Total		**3,117.5080**	**0.1287**	**0.0266**	**3,128.6610**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Unenclosed Parking with Elevator	1.62708e+006	518.4219	0.0214	4.4300e-003	520.2766
University/College (4Yr)	8.15729e+006	2,599.0861	0.1073	0.0222	2,608.3844
Total		**3,117.5080**	**0.1287**	**0.0266**	**3,128.6610**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	2.7679	8.9000e-004	0.0995	1.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004	0.0000	0.1945	0.1945	5.0000e-004	0.0000	0.2071
Unmitigated	2.7679	8.9000e-004	0.0995	1.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004	0.0000	0.1945	0.1945	5.0000e-004	0.0000	0.2071

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.3178					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.4410					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	9.1000e-003	8.9000e-004	0.0995	1.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004	0.0000	0.1945	0.1945	5.0000e-004	0.0000	0.2071
Total	**2.7679**	**8.9000e-004**	**0.0995**	**1.0000e-005**		**3.5000e-004**	**3.5000e-004**		**3.5000e-004**	**3.5000e-004**	**0.0000**	**0.1945**	**0.1945**	**5.0000e-004**	**0.0000**	**0.2071**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.3178					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.4410					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	9.1000e-003	8.9000e-004	0.0995	1.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004	0.0000	0.1945	0.1945	5.0000e-004	0.0000	0.2071
Total	**2.7679**	**8.9000e-004**	**0.0995**	**1.0000e-005**		**3.5000e-004**	**3.5000e-004**		**3.5000e-004**	**3.5000e-004**	**0.0000**	**0.1945**	**0.1945**	**5.0000e-004**	**0.0000**	**0.2071**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	149.9184	0.4944	0.0128	166.0835
Unmitigated	149.9184	0.4944	0.0128	166.0835

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Unenclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
University/College (4Yr)	14.9877 / 23.4423	149.9184	0.4944	0.0128	166.0835
Total		**149.9184**	**0.4944**	**0.0128**	**166.0835**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Unenclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
University/College (4Yr)	14.9877 / 23.4423	149.9184	0.4944	0.0128	166.0835
Total		**149.9184**	**0.4944**	**0.0128**	**166.0835**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	259.3210	15.3254	0.0000	642.4567
Unmitigated	259.3210	15.3254	0.0000	642.4567

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
University/College (4Yr)	1277.5	259.3210	15.3254	0.0000	642.4567
Total		**259.3210**	**15.3254**	**0.0000**	**642.4567**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
University/College (4Yr)	1277.5	259.3210	15.3254	0.0000	642.4567
Total		**259.3210**	**15.3254**	**0.0000**	**642.4567**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

CSUF MPU - Construction Phase 2

Orange County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
University/College (4Yr)	7,000.00	Student	29.54	660,509.00	0
Unenclosed Parking with Elevator	838.70	1000sqft	19.25	838,700.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	30
Climate Zone	8			**Operational Year**	2035
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

CSUF MPU - Construction Phase 2 - Orange County, Winter

Project Characteristics - CalEEMod operational years jump from 2035 to 2040, therefore earlier (more conservative) year of 2035 used for project buildout of 2039

Land Use - CalEEMod only allows for student # input for education; student # input calibrated to equal proposed SF, does not represent # of students served by land use; educational includes campus amenities, academic space, and arboretum facilities.

Construction Phase - Construction phases extended through 2024

Trips and VMT -

Grading -

Architectural Coating - Compliance with SCAQMD Rule 1113

Area Coating -

Energy Use -

Water And Wastewater -

Solid Waste -

Construction Off-road Equipment Mitigation - Construction would require Tier 4 engines; projects would comply with SCAQMD rules re: fugitive dust

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	50.00	100.00
tblConstructionPhase	NumDays	30.00	60.00
tblConstructionPhase	NumDays	75.00	150.00
tblConstructionPhase	NumDays	55.00	110.00
tblConstructionPhase	NumDays	55.00	110.00
tblGrading	MaterialExported	0.00	267,440.00
tblGrading	MaterialImported	0.00	133,720.00
tblLandUse	LandUseSquareFeet	1,286,582.28	660,509.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2030	4.8250	56.5083	48.1867	0.2937	18.2675	0.5755	18.7050	9.9840	0.5717	10.4215	0.0000	32,595.6091	32,595.6091	3.0562	0.0000	32,672.0149
2031	4.8105	55.5539	48.3353	0.2927	24.1293	0.5740	24.7032	7.5308	0.5702	8.1010	0.0000	32,497.3516	32,497.3516	3.0486	0.0000	32,573.5668
2032	3.0240	22.1501	29.2133	0.1264	8.6136	0.1759	8.7895	2.3198	0.1730	2.4928	0.0000	13,032.1817	13,032.1817	0.5902	0.0000	13,046.9363
2033	2.9354	21.9941	28.8011	0.1255	8.6136	0.1739	8.7875	2.3198	0.1711	2.4910	0.0000	12,945.6698	12,945.6698	0.5840	0.0000	12,960.2695
2034	30.3443	21.8531	28.4044	0.1248	8.6136	0.3312	8.7856	2.3198	0.3312	2.4892	0.0000	12,871.5373	12,871.5373	0.5784	0.0000	12,885.9968
Maximum	**30.3443**	**56.5083**	**48.3353**	**0.2937**	**24.1293**	**0.5755**	**24.7032**	**9.9840**	**0.5717**	**10.4215**	**0.0000**	**32,595.6091**	**32,595.6091**	**3.0562**	**0.0000**	**32,672.0149**

2.1 Overall Construction (Maximum Daily Emission)

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2030	2.3058	45.9622	58.1619	0.2937	12.2266	0.1892	12.4157	4.5222	0.1853	4.5851	0.0000	32,595.6091	32,595.6091	3.0562	0.0000	32,672.0149
2031	2.2914	45.0078	58.3106	0.2927	19.1926	0.1876	19.3801	5.5276	0.1838	5.7114	0.0000	32,497.3516	32,497.3516	3.0486	0.0000	32,573.5668
2032	2.1628	16.6411	30.6214	0.1264	8.6136	0.0821	8.6956	2.3198	0.0791	2.3989	0.0000	13,032.1817	13,032.1817	0.5902	0.0000	13,046.9363
2033	2.0742	16.4852	30.2092	0.1255	8.6136	0.0801	8.6936	2.3198	0.0773	2.3971	0.0000	12,945.6698	12,945.6698	0.5840	0.0000	12,960.2695
2034	30.2432	16.3441	29.8124	0.1248	8.6136	0.0782	8.6918	2.3198	0.0756	2.3954	0.0000	12,871.5373	12,871.5373	0.5784	0.0000	12,885.9968
Maximum	**30.2432**	**45.9622**	**58.3106**	**0.2937**	**19.1926**	**0.1892**	**19.3801**	**5.5276**	**0.1853**	**5.7114**	**0.0000**	**32,595.6091**	**32,595.6091**	**3.0562**	**0.0000**	**32,672.0149**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**14.94**	**21.13**	**-13.21**	**0.00**	**16.09**	**66.29**	**17.05**	**30.50**	**66.92**	**32.73**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	15.1894	7.1500e-003	0.7958	6.0000e-005		2.8200e-003	2.8200e-003		2.8200e-003	2.8200e-003		1.7155	1.7155	4.4200e-003		1.8260
Energy	0.2992	2.7197	2.2846	0.0163		0.2067	0.2067		0.2067	0.2067		3,263.6915	3,263.6915	0.0626	0.0598	3,283.0860
Mobile	9.3969	42.6638	118.8455	0.6049	76.3044	0.3017	76.6061	20.4056	0.2800	20.6856		62,101.4962	62,101.4962	2.3320		62,159.7968
Total	**24.8854**	**45.3907**	**121.9259**	**0.6213**	**76.3044**	**0.5112**	**76.8157**	**20.4056**	**0.4895**	**20.8952**		**65,366.9032**	**65,366.9032**	**2.3990**	**0.0598**	**65,444.7089**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	15.1894	7.1500e-003	0.7958	6.0000e-005		2.8200e-003	2.8200e-003		2.8200e-003	2.8200e-003		1.7155	1.7155	4.4200e-003		1.8260
Energy	0.2992	2.7197	2.2846	0.0163		0.2067	0.2067		0.2067	0.2067		3,263.6915	3,263.6915	0.0626	0.0598	3,283.0860
Mobile	9.3969	42.6638	118.8455	0.6049	76.3044	0.3017	76.6061	20.4056	0.2800	20.6856		62,101.4962	62,101.4962	2.3320		62,159.7968
Total	**24.8854**	**45.3907**	**121.9259**	**0.6213**	**76.3044**	**0.5112**	**76.8157**	**20.4056**	**0.4895**	**20.8952**		**65,366.9032**	**65,366.9032**	**2.3990**	**0.0598**	**65,444.7089**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2030	5/20/2030	5	100	
2	Site Preparation	Site Preparation	5/21/2030	8/12/2030	5	60	
3	Grading	Grading	8/13/2030	3/10/2031	5	150	
4	Building Construction	Building Construction	3/11/2031	1/9/2034	5	740	
5	Paving	Paving	1/10/2034	6/12/2034	5	110	
6	Architectural Coating	Architectural Coating	6/13/2034	11/13/2034	5	110	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 375

Acres of Paving: 19.25

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 990,764; Non-Residential Outdoor: 330,255; Striped Parking Area: 50,322 (Architectural Coating – sqft)

OffRoad Equipment

CSUF MPU - Construction Phase 2 - Orange County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	0	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	582.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	50,145.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	630.00	246.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	126.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 2030

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.2600	0.0000	1.2600	0.1908	0.0000	0.1908			0.0000			0.0000
Off-Road	2.0746	9.7770	18.9168	0.0462		0.3511	0.3511		0.3511	0.3511		4,378.5819	4,378.5819	0.1847		4,383.2000
Total	**2.0746**	**9.7770**	**18.9168**	**0.0462**	**1.2600**	**0.3511**	**1.6111**	**0.1908**	**0.3511**	**0.5419**		**4,378.5819**	**4,378.5819**	**0.1847**		**4,383.2000**

3.2 Demolition - 2030

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0260	0.7423	0.4326	3.8700e-003	0.1013	1.5100e-003	0.1028	0.0277	1.4400e-003	0.0292		439.3514	439.3514	0.0481		440.5538
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0400	0.0170	0.2372	1.1000e-003	0.1677	7.4000e-004	0.1684	0.0445	6.8000e-004	0.0452		109.6634	109.6634	1.4600e-003		109.7000
Total	**0.0659**	**0.7593**	**0.6698**	**4.9700e-003**	**0.2690**	**2.2500e-003**	**0.2712**	**0.0722**	**2.1200e-003**	**0.0743**		**549.0148**	**549.0148**	**0.0496**		**550.2538**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5670	0.0000	0.5670	0.0859	0.0000	0.0859			0.0000			0.0000
Off-Road	0.4623	2.0032	23.2798	0.0462		0.0616	0.0616		0.0616	0.0616	0.0000	4,378.5819	4,378.5819	0.1847		4,383.2000
Total	**0.4623**	**2.0032**	**23.2798**	**0.0462**	**0.5670**	**0.0616**	**0.6286**	**0.0859**	**0.0616**	**0.1475**	**0.0000**	**4,378.5819**	**4,378.5819**	**0.1847**		**4,383.2000**

3.2 Demolition - 2030

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0260	0.7423	0.4326	3.8700e-003	0.1013	1.5100e-003	0.1028	0.0277	1.4400e-003	0.0292		439.3514	439.3514	0.0481		440.5538
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0400	0.0170	0.2372	1.1000e-003	0.1677	7.4000e-004	0.1684	0.0445	6.8000e-004	0.0452		109.6634	109.6634	1.4600e-003		109.7000
Total	**0.0659**	**0.7593**	**0.6698**	**4.9700e-003**	**0.2690**	**2.2500e-003**	**0.2712**	**0.0722**	**2.1200e-003**	**0.0743**		**549.0148**	**549.0148**	**0.0496**		**550.2538**

3.3 Site Preparation - 2030

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	2.4399	13.6680	16.2918	0.0466		0.4367	0.4367		0.4367	0.4367		4,409.7537	4,409.7537	0.2176		4,415.1936
Total	**2.4399**	**13.6680**	**16.2918**	**0.0466**	**18.0663**	**0.4367**	**18.5029**	**9.9307**	**0.4367**	**10.3673**		**4,409.7537**	**4,409.7537**	**0.2176**		**4,415.1936**

3.3 Site Preparation - 2030

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0480	0.0204	0.2847	1.3200e-003	0.2012	8.9000e-004	0.2021	0.0534	8.2000e-004	0.0542		131.5961	131.5961	1.7600e-003		131.6400
Total	**0.0480**	**0.0204**	**0.2847**	**1.3200e-003**	**0.2012**	**8.9000e-004**	**0.2021**	**0.0534**	**8.2000e-004**	**0.0542**		**131.5961**	**131.5961**	**1.7600e-003**		**131.6400**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.1298	0.0000	8.1298	4.4688	0.0000	4.4688			0.0000			0.0000
Off-Road	0.4656	2.0175	20.8690	0.0466		0.0621	0.0621		0.0621	0.0621	0.0000	4,409.7537	4,409.7537	0.2176		4,415.1936
Total	**0.4656**	**2.0175**	**20.8690**	**0.0466**	**8.1298**	**0.0621**	**8.1919**	**4.4688**	**0.0621**	**4.5309**	**0.0000**	**4,409.7537**	**4,409.7537**	**0.2176**		**4,415.1936**

3.3 Site Preparation - 2030

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0480	0.0204	0.2847	1.3200e-003	0.2012	8.9000e-004	0.2021	0.0534	8.2000e-004	0.0542		131.5961	131.5961	1.7600e-003		131.6400
Total	**0.0480**	**0.0204**	**0.2847**	**1.3200e-003**	**0.2012**	**8.9000e-004**	**0.2021**	**0.0534**	**8.2000e-004**	**0.0542**		**131.5961**	**131.5961**	**1.7600e-003**		**131.6400**

3.4 Grading - 2030

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.9758	0.0000	8.9758	3.6423	0.0000	3.6423			0.0000			0.0000
Off-Road	3.2807	13.8462	23.0239	0.0699		0.4879	0.4879		0.4879	0.4879		7,213.1086	7,213.1086	0.2915		7,220.3963
Total	**3.2807**	**13.8462**	**23.0239**	**0.0699**	**8.9758**	**0.4879**	**9.4637**	**3.6423**	**0.4879**	**4.1302**		**7,213.1086**	**7,213.1086**	**0.2915**		**7,220.3963**

3.4 Grading - 2030

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.4910	42.6395	24.8465	0.2223	7.9639	0.0866	8.0506	2.1194	0.0829	2.2023		25,236.2827	25,236.2827	2.7628		25,305.3520
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0533	0.0226	0.3163	1.4600e-003	0.2236	9.9000e-004	0.2245	0.0593	9.1000e-004	0.0602		146.2179	146.2179	1.9500e-003		146.2667
Total	**1.5443**	**42.6621**	**25.1628**	**0.2238**	**8.1875**	**0.0876**	**8.2751**	**2.1787**	**0.0838**	**2.2625**		**25,382.5006**	**25,382.5006**	**2.7647**		**25,451.6186**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.0391	0.0000	4.0391	1.6390	0.0000	1.6390			0.0000			0.0000
Off-Road	0.7616	3.3000	32.9991	0.0699		0.1015	0.1015		0.1015	0.1015	0.0000	7,213.1086	7,213.1086	0.2915		7,220.3963
Total	**0.7616**	**3.3000**	**32.9991**	**0.0699**	**4.0391**	**0.1015**	**4.1406**	**1.6390**	**0.1015**	**1.7406**	**0.0000**	**7,213.1086**	**7,213.1086**	**0.2915**		**7,220.3963**

3.4 Grading - 2030

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.4910	42.6395	24.8465	0.2223	7.9639	0.0866	8.0506	2.1194	0.0829	2.2023		25,236.2827	25,236.2827	2.7628		25,305.3520
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0533	0.0226	0.3163	1.4600e-003	0.2236	9.9000e-004	0.2245	0.0593	9.1000e-004	0.0602		146.2179	146.2179	1.9500e-003		146.2667
Total	**1.5443**	**42.6621**	**25.1628**	**0.2238**	**8.1875**	**0.0876**	**8.2751**	**2.1787**	**0.0838**	**2.2625**		**25,382.5006**	**25,382.5006**	**2.7647**		**25,451.6186**

3.4 Grading - 2031

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.9758	0.0000	8.9758	3.6423	0.0000	3.6423			0.0000			0.0000
Off-Road	3.2807	13.8462	23.0239	0.0699		0.4879	0.4879		0.4879	0.4879		7,213.1086	7,213.1086	0.2915		7,220.3963
Total	**3.2807**	**13.8462**	**23.0239**	**0.0699**	**8.9758**	**0.4879**	**9.4637**	**3.6423**	**0.4879**	**4.1302**		**7,213.1086**	**7,213.1086**	**0.2915**		**7,220.3963**

3.4 Grading - 2031

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.4801	41.6868	25.0120	0.2213	14.9299	0.0851	15.0150	3.8292	0.0814	3.9107		25,141.4670	25,141.4670	2.7553		25,210.3496
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0497	0.0210	0.2995	1.4300e-003	0.2236	9.2000e-004	0.2245	0.0593	8.5000e-004	0.0601		142.7760	142.7760	1.8000e-003		142.8209
Total	**1.5298**	**41.7078**	**25.3114**	**0.2227**	**15.1535**	**0.0860**	**15.2395**	**3.8885**	**0.0823**	**3.9708**		**25,284.2430**	**25,284.2430**	**2.7571**		**25,353.1705**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.0391	0.0000	4.0391	1.6390	0.0000	1.6390			0.0000			0.0000
Off-Road	0.7616	3.3000	32.9991	0.0699		0.1015	0.1015		0.1015	0.1015	0.0000	7,213.1086	7,213.1086	0.2915		7,220.3963
Total	**0.7616**	**3.3000**	**32.9991**	**0.0699**	**4.0391**	**0.1015**	**4.1406**	**1.6390**	**0.1015**	**1.7406**	**0.0000**	**7,213.1086**	**7,213.1086**	**0.2915**		**7,220.3963**

3.4 Grading - 2031

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.4801	41.6868	25.0120	0.2213	14.9299	0.0851	15.0150	3.8292	0.0814	3.9107		25,141.4670	25,141.4670	2.7553		25,210.3496
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0497	0.0210	0.2995	1.4300e-003	0.2236	9.2000e-004	0.2245	0.0593	8.5000e-004	0.0601		142.7760	142.7760	1.8000e-003		142.8209
Total	**1.5298**	**41.7078**	**25.3114**	**0.2227**	**15.1535**	**0.0860**	**15.2395**	**3.8885**	**0.0823**	**3.9708**		**25,284.2430**	**25,284.2430**	**2.7571**		**25,353.1705**

3.5 Building Construction - 2031

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1452	6.7397	14.5554	0.0284		0.1317	0.1317		0.1317	0.1317		2,690.0690	2,690.0690	0.1016		2,692.6101
Total	**1.1452**	**6.7397**	**14.5554**	**0.0284**		**0.1317**	**0.1317**		**0.1317**	**0.1317**		**2,690.0690**	**2,690.0690**	**0.1016**		**2,692.6101**

3.5 Building Construction - 2031

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.4165	14.9211	5.7051	0.0540	1.5716	0.0174	1.5891	0.4523	0.0167	0.4689		5,945.0896	5,945.0896	0.4390		5,956.0654
Worker	1.5662	0.6604	9.4327	0.0450	7.0419	0.0289	7.0709	1.8676	0.0266	1.8942		4,497.4429	4,497.4429	0.0566		4,498.8586
Total	**1.9827**	**15.5815**	**15.1378**	**0.0990**	**8.6136**	**0.0464**	**8.6599**	**2.3198**	**0.0433**	**2.3631**		**10,442.5325**	**10,442.5325**	**0.4957**		**10,454.9240**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2840	1.2307	15.9634	0.0284		0.0379	0.0379		0.0379	0.0379	0.0000	2,690.0690	2,690.0690	0.1016		2,692.6101
Total	**0.2840**	**1.2307**	**15.9634**	**0.0284**		**0.0379**	**0.0379**		**0.0379**	**0.0379**	**0.0000**	**2,690.0690**	**2,690.0690**	**0.1016**		**2,692.6101**

3.5 Building Construction - 2031

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.4165	14.9211	5.7051	0.0540	1.5716	0.0174	1.5891	0.4523	0.0167	0.4689		5,945.0896	5,945.0896	0.4390		5,956.0654
Worker	1.5662	0.6604	9.4327	0.0450	7.0419	0.0289	7.0709	1.8676	0.0266	1.8942		4,497.4429	4,497.4429	0.0566		4,498.8586
Total	**1.9827**	**15.5815**	**15.1378**	**0.0990**	**8.6136**	**0.0464**	**8.6599**	**2.3198**	**0.0433**	**2.3631**		**10,442.5325**	**10,442.5325**	**0.4957**		**10,454.9240**

3.5 Building Construction - 2032

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1452	6.7397	14.5554	0.0284		0.1317	0.1317		0.1317	0.1317		2,690.0690	2,690.0690	0.1016		2,692.6101
Total	**1.1452**	**6.7397**	**14.5554**	**0.0284**		**0.1317**	**0.1317**		**0.1317**	**0.1317**		**2,690.0690**	**2,690.0690**	**0.1016**		**2,692.6101**

3.5 Building Construction - 2032

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.4122	14.7945	5.7020	0.0538	1.5716	0.0172	1.5888	0.4523	0.0164	0.4687		5,929.1806	5,929.1806	0.4360		5,940.0800
Worker	1.4667	0.6159	8.9560	0.0442	7.0419	0.0270	7.0690	1.8676	0.0249	1.8924		4,412.9321	4,412.9321	0.0526		4,414.2462
Total	**1.8788**	**15.4104**	**14.6580**	**0.0980**	**8.6136**	**0.0442**	**8.6577**	**2.3198**	**0.0413**	**2.3611**		**10,342.1127**	**10,342.1127**	**0.4886**		**10,354.3263**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2840	1.2307	15.9634	0.0284		0.0379	0.0379		0.0379	0.0379	0.0000	2,690.0690	2,690.0690	0.1016		2,692.6101
Total	**0.2840**	**1.2307**	**15.9634**	**0.0284**		**0.0379**	**0.0379**		**0.0379**	**0.0379**	**0.0000**	**2,690.0690**	**2,690.0690**	**0.1016**		**2,692.6101**

3.5 Building Construction - 2032

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.4122	14.7945	5.7020	0.0538	1.5716	0.0172	1.5888	0.4523	0.0164	0.4687		5,929.1806	5,929.1806	0.4360		5,940.0800
Worker	1.4667	0.6159	8.9560	0.0442	7.0419	0.0270	7.0690	1.8676	0.0249	1.8924		4,412.9321	4,412.9321	0.0526		4,414.2462
Total	**1.8788**	**15.4104**	**14.6580**	**0.0980**	**8.6136**	**0.0442**	**8.6577**	**2.3198**	**0.0413**	**2.3611**		**10,342.1127**	**10,342.1127**	**0.4886**		**10,354.3263**

3.5 Building Construction - 2033

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1452	6.7397	14.5554	0.0284		0.1317	0.1317		0.1317	0.1317		2,690.0690	2,690.0690	0.1016		2,692.6101
Total	**1.1452**	**6.7397**	**14.5554**	**0.0284**		**0.1317**	**0.1317**		**0.1317**	**0.1317**		**2,690.0690**	**2,690.0690**	**0.1016**		**2,692.6101**

3.5 Building Construction - 2033

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.4087	14.6762	5.7031	0.0537	1.5716	0.0169	1.5885	0.4523	0.0161	0.4684		5,915.4769	5,915.4769	0.4333		5,926.3083
Worker	1.3815	0.5782	8.5427	0.0435	7.0419	0.0253	7.0672	1.8676	0.0233	1.8908		4,340.1239	4,340.1239	0.0491		4,341.3512
Total	**1.7902**	**15.2545**	**14.2458**	**0.0971**	**8.6136**	**0.0422**	**8.6558**	**2.3198**	**0.0394**	**2.3592**		**10,255.6008**	**10,255.6008**	**0.4823**		**10,267.6594**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2840	1.2307	15.9634	0.0284		0.0379	0.0379		0.0379	0.0379	0.0000	2,690.0690	2,690.0690	0.1016		2,692.6101
Total	**0.2840**	**1.2307**	**15.9634**	**0.0284**		**0.0379**	**0.0379**		**0.0379**	**0.0379**	**0.0000**	**2,690.0690**	**2,690.0690**	**0.1016**		**2,692.6101**

3.5 Building Construction - 2033

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.4087	14.6762	5.7031	0.0537	1.5716	0.0169	1.5885	0.4523	0.0161	0.4684		5,915.4769	5,915.4769	0.4333		5,926.3083
Worker	1.3815	0.5782	8.5427	0.0435	7.0419	0.0253	7.0672	1.8676	0.0233	1.8908		4,340.1239	4,340.1239	0.0491		4,341.3512
Total	**1.7902**	**15.2545**	**14.2458**	**0.0971**	**8.6136**	**0.0422**	**8.6558**	**2.3198**	**0.0394**	**2.3592**		**10,255.6008**	**10,255.6008**	**0.4823**		**10,267.6594**

3.5 Building Construction - 2034

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1452	6.7397	14.5554	0.0284		0.1317	0.1317		0.1317	0.1317		2,690.0690	2,690.0690	0.1016		2,692.6101
Total	**1.1452**	**6.7397**	**14.5554**	**0.0284**		**0.1317**	**0.1317**		**0.1317**	**0.1317**		**2,690.0690**	**2,690.0690**	**0.1016**		**2,692.6101**

3.5 Building Construction - 2034

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.4055	14.5672	5.6982	0.0536	1.5717	0.0166	1.5882	0.4523	0.0159	0.4681		5,904.0988	5,904.0988	0.4309		5,914.8713
Worker	1.3083	0.5462	8.1508	0.0428	7.0419	0.0237	7.0657	1.8676	0.0218	1.8894		4,277.3694	4,277.3694	0.0458		4,278.5154
Total	**1.7139**	**15.1134**	**13.8490**	**0.0964**	**8.6136**	**0.0403**	**8.6539**	**2.3198**	**0.0377**	**2.3575**		**10,181.4682**	**10,181.4682**	**0.4767**		**10,193.3867**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2840	1.2307	15.9634	0.0284		0.0379	0.0379		0.0379	0.0379	0.0000	2,690.0690	2,690.0690	0.1016		2,692.6101
Total	**0.2840**	**1.2307**	**15.9634**	**0.0284**		**0.0379**	**0.0379**		**0.0379**	**0.0379**	**0.0000**	**2,690.0690**	**2,690.0690**	**0.1016**		**2,692.6101**

3.5 Building Construction - 2034

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.4055	14.5672	5.6982	0.0536	1.5717	0.0166	1.5882	0.4523	0.0159	0.4681		5,904.0988	5,904.0988	0.4309		5,914.8713
Worker	1.3083	0.5462	8.1508	0.0428	7.0419	0.0237	7.0657	1.8676	0.0218	1.8894		4,277.3694	4,277.3694	0.0458		4,278.5154
Total	**1.7139**	**15.1134**	**13.8490**	**0.0964**	**8.6136**	**0.0403**	**8.6539**	**2.3198**	**0.0377**	**2.3575**		**10,181.4682**	**10,181.4682**	**0.4767**		**10,193.3867**

3.6 Paving - 2034

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3845	7.1202	15.8495	0.0281		0.3306	0.3306		0.3306	0.3306		2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.3845**	**7.1202**	**15.8495**	**0.0281**		**0.3306**	**0.3306**		**0.3306**	**0.3306**		**2,656.5168**	**2,656.5168**	**0.1245**		**2,659.6302**

3.6 Paving - 2034

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0312	0.0130	0.1941	1.0200e-003	0.1677	5.7000e-004	0.1682	0.0445	5.2000e-004	0.0450		101.8421	101.8421	1.0900e-003		101.8694
Total	**0.0312**	**0.0130**	**0.1941**	**1.0200e-003**	**0.1677**	**5.7000e-004**	**0.1682**	**0.0445**	**5.2000e-004**	**0.0450**		**101.8421**	**101.8421**	**1.0900e-003**		**101.8694**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2805	1.2154	17.2957	0.0281		0.0374	0.0374		0.0374	0.0374	0.0000	2,656.5168	2,656.5168	0.1245		2,659.6302
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.2805**	**1.2154**	**17.2957**	**0.0281**		**0.0374**	**0.0374**		**0.0374**	**0.0374**	**0.0000**	**2,656.5168**	**2,656.5168**	**0.1245**		**2,659.6302**

3.6 Paving - 2034

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0312	0.0130	0.1941	1.0200e-003	0.1677	5.7000e-004	0.1682	0.0445	5.2000e-004	0.0450		101.8421	101.8421	1.0900e-003		101.8694
Total	**0.0312**	**0.0130**	**0.1941**	**1.0200e-003**	**0.1677**	**5.7000e-004**	**0.1682**	**0.0445**	**5.2000e-004**	**0.0450**		**101.8421**	**101.8421**	**1.0900e-003**		**101.8694**

3.7 Architectural Coating - 2034

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	29.9519					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1308	0.8563	1.7977	2.9700e-003		0.0203	0.0203		0.0203	0.0203		281.4481	281.4481	0.0114		281.7328
Total	**30.0826**	**0.8563**	**1.7977**	**2.9700e-003**		**0.0203**	**0.0203**		**0.0203**	**0.0203**		**281.4481**	**281.4481**	**0.0114**		**281.7328**

3.7 Architectural Coating - 2034

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2617	0.1092	1.6302	8.5600e-003	1.4084	4.7500e-003	1.4131	0.3735	4.3700e-003	0.3779		855.4739	855.4739	9.1700e-003		855.7031
Total	**0.2617**	**0.1092**	**1.6302**	**8.5600e-003**	**1.4084**	**4.7500e-003**	**1.4131**	**0.3735**	**4.3700e-003**	**0.3779**		**855.4739**	**855.4739**	**9.1700e-003**		**855.7031**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	29.9519					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0114		281.7328
Total	**29.9816**	**0.1288**	**1.8324**	**2.9700e-003**		**3.9600e-003**	**3.9600e-003**		**3.9600e-003**	**3.9600e-003**	**0.0000**	**281.4481**	**281.4481**	**0.0114**		**281.7328**

3.7 Architectural Coating - 2034

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2617	0.1092	1.6302	8.5600e-003	1.4084	4.7500e-003	1.4131	0.3735	4.3700e-003	0.3779		855.4739	855.4739	9.1700e-003		855.7031
Total	**0.2617**	**0.1092**	**1.6302**	**8.5600e-003**	**1.4084**	**4.7500e-003**	**1.4131**	**0.3735**	**4.3700e-003**	**0.3779**		**855.4739**	**855.4739**	**9.1700e-003**		**855.7031**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	9.3969	42.6638	118.8455	0.6049	76.3044	0.3017	76.6061	20.4056	0.2800	20.6856		62,101.4962	62,101.4962	2.3320		62,159.7968
Unmitigated	9.3969	42.6638	118.8455	0.6049	76.3044	0.3017	76.6061	20.4056	0.2800	20.6856		62,101.4962	62,101.4962	2.3320		62,159.7968

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Unenclosed Parking with Elevator	0.00	0.00	0.00		
University/College (4Yr)	11,970.00	9,100.00	0.00	29,588,293	29,588,293
Total	11,970.00	9,100.00	0.00	29,588,293	29,588,293

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Unenclosed Parking with	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
University/College (4Yr)	16.60	8.40	6.90	6.40	88.60	5.00	91	9	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Unenclosed Parking with Elevator	0.570257	0.042258	0.208917	0.102527	0.012284	0.005810	0.027501	0.020703	0.001922	0.001419	0.005012	0.000641	0.000749
University/College (4Yr)	0.570257	0.042258	0.208917	0.102527	0.012284	0.005810	0.027501	0.020703	0.001922	0.001419	0.005012	0.000641	0.000749

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.2992	2.7197	2.2846	0.0163		0.2067	0.2067		0.2067	0.2067		3,263.6915	3,263.6915	0.0626	0.0598	3,283.0860
NaturalGas Unmitigated	0.2992	2.7197	2.2846	0.0163		0.2067	0.2067		0.2067	0.2067		3,263.6915	3,263.6915	0.0626	0.0598	3,283.0860

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
University/College (4Yr)	27741.4	0.2992	2.7197	2.2846	0.0163		0.2067	0.2067		0.2067	0.2067		3,263.6915	3,263.6915	0.0626	0.0598	3,283.0860
Total		**0.2992**	**2.7197**	**2.2846**	**0.0163**		**0.2067**	**0.2067**		**0.2067**	**0.2067**		**3,263.6915**	**3,263.6915**	**0.0626**	**0.0598**	**3,283.0860**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
University/College (4Yr)	27.7414	0.2992	2.7197	2.2846	0.0163		0.2067	0.2067		0.2067	0.2067		3,263.6915	3,263.6915	0.0626	0.0598	3,283.0860
Total		**0.2992**	**2.7197**	**2.2846**	**0.0163**		**0.2067**	**0.2067**		**0.2067**	**0.2067**		**3,263.6915**	**3,263.6915**	**0.0626**	**0.0598**	**3,283.0860**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	15.1894	7.1500e-003	0.7958	6.0000e-005		2.8200e-003	2.8200e-003		2.8200e-003	2.8200e-003		1.7155	1.7155	4.4200e-003		1.8260
Unmitigated	15.1894	7.1500e-003	0.7958	6.0000e-005		2.8200e-003	2.8200e-003		2.8200e-003	2.8200e-003		1.7155	1.7155	4.4200e-003		1.8260

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.7414					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	13.3752					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0728	7.1500e-003	0.7958	6.0000e-005		2.8200e-003	2.8200e-003		2.8200e-003	2.8200e-003		1.7155	1.7155	4.4200e-003		1.8260
Total	**15.1894**	**7.1500e-003**	**0.7958**	**6.0000e-005**		**2.8200e-003**	**2.8200e-003**		**2.8200e-003**	**2.8200e-003**		**1.7155**	**1.7155**	**4.4200e-003**		**1.8260**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.7414					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	13.3752					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0728	7.1500e-003	0.7958	6.0000e-005		2.8200e-003	2.8200e-003		2.8200e-003	2.8200e-003		1.7155	1.7155	4.4200e-003		1.8260
Total	**15.1894**	**7.1500e-003**	**0.7958**	**6.0000e-005**		**2.8200e-003**	**2.8200e-003**		**2.8200e-003**	**2.8200e-003**		**1.7155**	**1.7155**	**4.4200e-003**		**1.8260**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

CSUF MPU - Construction Phase 3

Orange County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
University/College (4Yr)	7,000.00	Student	29.54	633,271.00	0
Enclosed Parking with Elevator	838.70	1000sqft	19.25	838,700.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	30
Climate Zone	8			**Operational Year**	2035
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CalEEMod operational years jump from 2035 to 2040, therefore earlier (more conservative) year of 2035 used for project buildout of 2039

Land Use - CalEEMod only allows for student # input for education; student # input calibrated to equal proposed SF, does not represent # of students served; academic space/amenities/innovation center combined under educational

Construction Phase - Construction phases extended by 100% (except building construction) to be consistent with plan timeline

Off-road Equipment -

Off-road Equipment - Welders not anticpated for building construction

Off-road Equipment - '

Off-road Equipment -

Off-road Equipment - '

Off-road Equipment -

Trips and VMT -

Demolition - Demo determined by Google Earth analysis of building footprint/floors

Grading - Export/import conservatively determined by SF from phase * 20 depth of cut. 50% exported and 50% imported.

Architectural Coating - Compliance with SCAQMD Rule 1113

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Area Coating -

Energy Use -

Water And Wastewater -

Solid Waste -

Construction Off-road Equipment Mitigation - Construction would require Tier 4 engines; projects would comply with SCAQMD rules re: fugitive dust

Mobile Commute Mitigation -

Area Mitigation -

Fleet Mix -

CSUF MPU - Construction Phase 3 - Orange County, Annual

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final

tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	50.00	100.00
tblConstructionPhase	NumDays	30.00	60.00
tblConstructionPhase	NumDays	75.00	150.00
tblConstructionPhase	NumDays	55.00	110.00
tblConstructionPhase	NumDays	55.00	110.00
tblGrading	MaterialExported	0.00	202,390.00
tblGrading	MaterialImported	0.00	101,195.00
tblLandUse	LandUseSquareFeet	1,286,582.28	633,271.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2035	0.3632	2.7032	3.5601	0.0160	1.4609	0.0391	1.5001	0.5875	0.0390	0.6265	0.0000	1,554.3713	1,554.3713	0.1205	0.0000	1,557.3829
2036	0.3683	3.2040	3.9849	0.0190	1.5247	0.0220	1.5467	0.4148	0.0217	0.4365	0.0000	1,817.2140	1,817.2140	0.1045	0.0000	1,819.8269
2037	0.3304	2.7285	3.6314	0.0161	1.0834	0.0157	1.0990	0.2922	0.0154	0.3076	0.0000	1,509.7233	1,509.7233	0.0653	0.0000	1,511.3548
2038	0.3304	2.7285	3.6314	0.0161	1.0834	0.0157	1.0990	0.2922	0.0154	0.3076	0.0000	1,509.7233	1,509.7233	0.0653	0.0000	1,511.3548
2039	1.6731	0.3687	1.1360	2.5400e-003	0.1047	0.0114	0.1161	0.0279	0.0114	0.0393	0.0000	222.7272	222.7272	7.3500e-003	0.0000	222.9110
Maximum	**1.6731**	**3.2040**	**3.9849**	**0.0190**	**1.5247**	**0.0391**	**1.5467**	**0.5875**	**0.0390**	**0.6265**	**0.0000**	**1,817.2140**	**1,817.2140**	**0.1205**	**0.0000**	**1,819.8269**

2.1 Overall Construction

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2035	0.1357	1.8964	4.4646	0.0160	0.8389	0.0133	0.8521	0.3128	0.0131	0.3259	0.0000	1,554.3705	1,554.3705	0.1205	0.0000	1,557.3822
2036	0.2321	2.5406	4.3942	0.0190	1.3248	0.0120	1.3368	0.3570	0.0117	0.3687	0.0000	1,817.2135	1,817.2135	0.1045	0.0000	1,819.8264
2037	0.2280	2.1045	3.8184	0.0161	1.0834	9.8700e-003	1.0932	0.2922	9.5500e-003	0.3018	0.0000	1,509.7229	1,509.7229	0.0653	0.0000	1,511.3545
2038	0.2280	2.1045	3.8184	0.0161	1.0834	9.8700e-003	1.0932	0.2922	9.5500e-003	0.3018	0.0000	1,509.7229	1,509.7229	0.0653	0.0000	1,511.3545
2039	1.6190	0.1208	1.2228	2.5400e-003	0.1047	2.7300e-003	0.1074	0.0279	2.7100e-003	0.0306	0.0000	222.7270	222.7270	7.3500e-003	0.0000	222.9109
Maximum	**1.6190**	**2.5406**	**4.4646**	**0.0190**	**1.3248**	**0.0133**	**1.3368**	**0.3570**	**0.0131**	**0.3687**	**0.0000**	**1,817.2135**	**1,817.2135**	**0.1205**	**0.0000**	**1,819.8264**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**20.31**	**25.28**	**-11.13**	**0.00**	**15.64**	**54.03**	**16.38**	**20.60**	**54.61**	**22.64**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**1-1-2035**	**3-31-2035**	0.3072	0.1056
2	**4-1-2035**	**6-30-2035**	0.3531	0.0950
3	**7-1-2035**	**9-30-2035**	0.9695	0.6721
4	**10-1-2035**	**12-31-2035**	1.4271	1.1497
5	**1-1-2036**	**3-31-2036**	1.2398	0.9900
6	**4-1-2036**	**6-30-2036**	0.7553	0.5744

7	**7-1-2036**	**9-30-2036**	0.7636	0.5807
8	**10-1-2036**	**12-31-2036**	0.7686	0.5857
9	**1-1-2037**	**3-31-2037**	0.7519	0.5730
10	**4-1-2037**	**6-30-2037**	0.7553	0.5744
11	**7-1-2037**	**9-30-2037**	0.7636	0.5807
12	**10-1-2037**	**12-31-2037**	0.7686	0.5857
13	**1-1-2038**	**3-31-2038**	0.7519	0.5730
14	**4-1-2038**	**6-30-2038**	0.7553	0.5744
15	**7-1-2038**	**9-30-2038**	0.7636	0.5807
16	**10-1-2038**	**12-31-2038**	0.7686	0.5857
17	**1-1-2039**	**3-31-2039**	0.2381	0.0902
18	**4-1-2039**	**6-30-2039**	0.3677	0.2479
19	**7-1-2039**	**9-30-2039**	0.9852	0.9616
		Highest	1.4271	1.1497

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	2.6568	8.9000e-004	0.0995	1.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004	0.0000	0.1945	0.1945	5.0000e-004	0.0000	0.2071
Energy	0.0524	0.4759	0.3997	2.8600e-003		0.0362	0.0362		0.0362	0.0362	0.0000	4,575.9184	4,575.9184	0.1775	0.0442	4,593.5140
Mobile	1.3658	6.4764	18.0126	0.0917	11.2269	0.0451	11.2719	3.0067	0.0418	3.0486	0.0000	8,538.4079	8,538.4079	0.3153	0.0000	8,546.2901
Waste						0.0000	0.0000		0.0000	0.0000	259.3210	0.0000	259.3210	15.3254	0.0000	642.4567
Water						0.0000	0.0000		0.0000	0.0000	4.7549	145.1635	149.9184	0.4944	0.0128	166.0835
Total	**4.0749**	**6.9531**	**18.5118**	**0.0945**	**11.2269**	**0.0816**	**11.3085**	**3.0067**	**0.0784**	**3.0851**	**264.0759**	**13,259.6844**	**13,523.7602**	**16.3131**	**0.0569**	**13,948.5514**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	2.6568	8.9000e-004	0.0995	1.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004	0.0000	0.1945	0.1945	5.0000e-004	0.0000	0.2071
Energy	0.0524	0.4759	0.3997	2.8600e-003		0.0362	0.0362		0.0362	0.0362	0.0000	4,575.9184	4,575.9184	0.1775	0.0442	4,593.5140
Mobile	1.3658	6.4764	18.0126	0.0917	11.2269	0.0451	11.2719	3.0067	0.0418	3.0486	0.0000	8,538.4079	8,538.4079	0.3153	0.0000	8,546.2901
Waste						0.0000	0.0000		0.0000	0.0000	259.3210	0.0000	259.3210	15.3254	0.0000	642.4567
Water						0.0000	0.0000		0.0000	0.0000	4.7549	145.1635	149.9184	0.4944	0.0128	166.0835
Total	**4.0749**	**6.9531**	**18.5118**	**0.0945**	**11.2269**	**0.0816**	**11.3085**	**3.0067**	**0.0784**	**3.0851**	**264.0759**	**13,259.6844**	**13,523.7602**	**16.3131**	**0.0569**	**13,948.5514**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

CSUF MPU - Construction Phase 3 - Orange County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2035	5/18/2035	5	100	
2	Site Preparation	Site Preparation	5/19/2035	8/10/2035	5	60	
3	Grading	Grading	8/11/2035	3/7/2036	5	150	
4	Building Construction	Building Construction	3/8/2036	1/7/2039	5	740	
5	Paving	Paving	1/8/2039	6/10/2039	5	110	
6	Architectural Coating	Architectural Coating	6/11/2039	11/11/2039	5	110	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 375

Acres of Paving: 19.25

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 949,907; Non-Residential Outdoor: 316,636; Striped Parking Area: 50,322 (Architectural Coating – sqft)

OffRoad Equipment

CSUF MPU - Construction Phase 3 - Orange County, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	0	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	637.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	37,948.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	618.00	241.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	124.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 2035

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0689	0.0000	0.0689	0.0104	0.0000	0.0104	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0916	0.3454	0.9353	2.3100e-003		0.0113	0.0113		0.0113	0.0113	0.0000	198.6091	198.6091	7.2500e-003	0.0000	198.7905
Total	**0.0916**	**0.3454**	**0.9353**	**2.3100e-003**	**0.0689**	**0.0113**	**0.0802**	**0.0104**	**0.0113**	**0.0218**	**0.0000**	**198.6091**	**198.6091**	**7.2500e-003**	**0.0000**	**198.7905**

3.2 Demolition - 2035

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.3600e-003	0.0381	0.0238	2.1000e-004	5.4600e-003	8.0000e-005	5.5300e-003	1.5000e-003	7.0000e-005	1.5700e-003	0.0000	21.6745	21.6745	2.3400e-003	0.0000	21.7330
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3100e-003	6.4000e-004	9.5800e-003	5.0000e-005	8.2300e-003	3.0000e-005	8.2600e-003	2.1900e-003	2.0000e-005	2.2100e-003	0.0000	4.6320	4.6320	5.0000e-005	0.0000	4.6331
Total	**2.6700e-003**	**0.0388**	**0.0334**	**2.6000e-004**	**0.0137**	**1.1000e-004**	**0.0138**	**3.6900e-003**	**9.0000e-005**	**3.7800e-003**	**0.0000**	**26.3064**	**26.3064**	**2.3900e-003**	**0.0000**	**26.3661**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0310	0.0000	0.0310	4.6900e-003	0.0000	4.6900e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0231	0.1002	1.1640	2.3100e-003		3.0800e-003	3.0800e-003		3.0800e-003	3.0800e-003	0.0000	198.6089	198.6089	7.2500e-003	0.0000	198.7902
Total	**0.0231**	**0.1002**	**1.1640**	**2.3100e-003**	**0.0310**	**3.0800e-003**	**0.0341**	**4.6900e-003**	**3.0800e-003**	**7.7700e-003**	**0.0000**	**198.6089**	**198.6089**	**7.2500e-003**	**0.0000**	**198.7902**

3.2 Demolition - 2035

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.3600e-003	0.0381	0.0238	2.1000e-004	5.4600e-003	8.0000e-005	5.5300e-003	1.5000e-003	7.0000e-005	1.5700e-003	0.0000	21.6745	21.6745	2.3400e-003	0.0000	21.7330
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3100e-003	6.4000e-004	9.5800e-003	5.0000e-005	8.2300e-003	3.0000e-005	8.2600e-003	2.1900e-003	2.0000e-005	2.2100e-003	0.0000	4.6320	4.6320	5.0000e-005	0.0000	4.6331
Total	**2.6700e-003**	**0.0388**	**0.0334**	**2.6000e-004**	**0.0137**	**1.1000e-004**	**0.0138**	**3.6900e-003**	**9.0000e-005**	**3.7800e-003**	**0.0000**	**26.3064**	**26.3064**	**2.3900e-003**	**0.0000**	**26.3661**

3.3 Site Preparation - 2035

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.5420	0.0000	0.5420	0.2979	0.0000	0.2979	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0645	0.3042	0.4792	1.4000e-003		8.7300e-003	8.7300e-003		8.7300e-003	8.7300e-003	0.0000	120.0138	120.0138	5.1400e-003	0.0000	120.1424
Total	**0.0645**	**0.3042**	**0.4792**	**1.4000e-003**	**0.5420**	**8.7300e-003**	**0.5507**	**0.2979**	**8.7300e-003**	**0.3067**	**0.0000**	**120.0138**	**120.0138**	**5.1400e-003**	**0.0000**	**120.1424**

3.3 Site Preparation - 2035

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.4000e-004	4.6000e-004	6.9000e-003	4.0000e-005	5.9300e-003	2.0000e-005	5.9500e-003	1.5700e-003	2.0000e-005	1.5900e-003	0.0000	3.3350	3.3350	3.0000e-005	0.0000	3.3359
Total	**9.4000e-004**	**4.6000e-004**	**6.9000e-003**	**4.0000e-005**	**5.9300e-003**	**2.0000e-005**	**5.9500e-003**	**1.5700e-003**	**2.0000e-005**	**1.5900e-003**	**0.0000**	**3.3350**	**3.3350**	**3.0000e-005**	**0.0000**	**3.3359**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2439	0.0000	0.2439	0.1341	0.0000	0.1341	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0140	0.0605	0.6261	1.4000e-003		1.8600e-003	1.8600e-003		1.8600e-003	1.8600e-003	0.0000	120.0137	120.0137	5.1400e-003	0.0000	120.1422
Total	**0.0140**	**0.0605**	**0.6261**	**1.4000e-003**	**0.2439**	**1.8600e-003**	**0.2458**	**0.1341**	**1.8600e-003**	**0.1359**	**0.0000**	**120.0137**	**120.0137**	**5.1400e-003**	**0.0000**	**120.1422**

3.3 Site Preparation - 2035

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.4000e-004	4.6000e-004	6.9000e-003	4.0000e-005	5.9300e-003	2.0000e-005	5.9500e-003	1.5700e-003	2.0000e-005	1.5900e-003	0.0000	3.3350	3.3350	3.0000e-005	0.0000	3.3359
Total	**9.4000e-004**	**4.6000e-004**	**6.9000e-003**	**4.0000e-005**	**5.9300e-003**	**2.0000e-005**	**5.9500e-003**	**1.5700e-003**	**2.0000e-005**	**1.5900e-003**	**0.0000**	**3.3350**	**3.3350**	**3.0000e-005**	**0.0000**	**3.3359**

3.4 Grading - 2035

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.5201	0.0000	0.5201	0.1912	0.0000	0.1912	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1470	0.4845	1.1375	3.5300e-003		0.0159	0.0159		0.0159	0.0159	0.0000	330.4532	330.4532	0.0117	0.0000	330.7463
Total	**0.1470**	**0.4845**	**1.1375**	**3.5300e-003**	**0.5201**	**0.0159**	**0.5360**	**0.1912**	**0.0159**	**0.2071**	**0.0000**	**330.4532**	**330.4532**	**0.0117**	**0.0000**	**330.7463**

3.4 Grading - 2035

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0547	1.5290	0.9549	8.4200e-003	0.2992	3.0300e-003	0.3022	0.0797	2.9000e-003	0.0826	0.0000	869.4160	869.4160	0.0939	0.0000	871.7625
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.7600e-003	8.6000e-004	0.0129	7.0000e-005	0.0111	4.0000e-005	0.0111	2.9400e-003	3.0000e-005	2.9800e-003	0.0000	6.2377	6.2377	6.0000e-005	0.0000	6.2393
Total	**0.0565**	**1.5299**	**0.9678**	**8.4900e-003**	**0.3103**	**3.0700e-003**	**0.3134**	**0.0827**	**2.9300e-003**	**0.0856**	**0.0000**	**875.6537**	**875.6537**	**0.0939**	**0.0000**	**878.0018**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2341	0.0000	0.2341	0.0861	0.0000	0.0861	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0385	0.1667	1.6665	3.5300e-003		5.1300e-003	5.1300e-003		5.1300e-003	5.1300e-003	0.0000	330.4528	330.4528	0.0117	0.0000	330.7460
Total	**0.0385**	**0.1667**	**1.6665**	**3.5300e-003**	**0.2341**	**5.1300e-003**	**0.2392**	**0.0861**	**5.1300e-003**	**0.0912**	**0.0000**	**330.4528**	**330.4528**	**0.0117**	**0.0000**	**330.7460**

3.4 Grading - 2035

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0547	1.5290	0.9549	8.4200e-003	0.2992	3.0300e-003	0.3022	0.0797	2.9000e-003	0.0826	0.0000	869.4160	869.4160	0.0939	0.0000	871.7625
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.7600e-003	8.6000e-004	0.0129	7.0000e-005	0.0111	4.0000e-005	0.0111	2.9400e-003	3.0000e-005	2.9800e-003	0.0000	6.2377	6.2377	6.0000e-005	0.0000	6.2393
Total	**0.0565**	**1.5299**	**0.9678**	**8.4900e-003**	**0.3103**	**3.0700e-003**	**0.3134**	**0.0827**	**2.9300e-003**	**0.0856**	**0.0000**	**875.6537**	**875.6537**	**0.0939**	**0.0000**	**878.0018**

3.4 Grading - 2036

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.3636	0.0000	0.3636	0.1052	0.0000	0.1052	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0713	0.2351	0.5519	1.7100e-003		7.7000e-003	7.7000e-003		7.7000e-003	7.7000e-003	0.0000	160.3189	160.3189	5.6900e-003	0.0000	160.4611
Total	**0.0713**	**0.2351**	**0.5519**	**1.7100e-003**	**0.3636**	**7.7000e-003**	**0.3713**	**0.1052**	**7.7000e-003**	**0.1129**	**0.0000**	**160.3189**	**160.3189**	**5.6900e-003**	**0.0000**	**160.4611**

3.4 Grading - 2036

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0266	0.7418	0.4633	4.0800e-003	0.2717	1.4700e-003	0.2731	0.0697	1.4100e-003	0.0711	0.0000	421.7959	421.7959	0.0455	0.0000	422.9343
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.5000e-004	4.2000e-004	6.2600e-003	3.0000e-005	5.3800e-003	2.0000e-005	5.4000e-003	1.4300e-003	2.0000e-005	1.4400e-003	0.0000	3.0262	3.0262	3.0000e-005	0.0000	3.0270
Total	**0.0274**	**0.7422**	**0.4695**	**4.1100e-003**	**0.2770**	**1.4900e-003**	**0.2785**	**0.0712**	**1.4300e-003**	**0.0726**	**0.0000**	**424.8221**	**424.8221**	**0.0456**	**0.0000**	**425.9613**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1636	0.0000	0.1636	0.0473	0.0000	0.0473	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0187	0.0809	0.8085	1.7100e-003		2.4900e-003	2.4900e-003		2.4900e-003	2.4900e-003	0.0000	160.3187	160.3187	5.6900e-003	0.0000	160.4609
Total	**0.0187**	**0.0809**	**0.8085**	**1.7100e-003**	**0.1636**	**2.4900e-003**	**0.1661**	**0.0473**	**2.4900e-003**	**0.0498**	**0.0000**	**160.3187**	**160.3187**	**5.6900e-003**	**0.0000**	**160.4609**

3.4 Grading - 2036

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0266	0.7418	0.4633	4.0800e-003	0.2717	1.4700e-003	0.2731	0.0697	1.4100e-003	0.0711	0.0000	421.7959	421.7959	0.0455	0.0000	422.9343
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.5000e-004	4.2000e-004	6.2600e-003	3.0000e-005	5.3800e-003	2.0000e-005	5.4000e-003	1.4300e-003	2.0000e-005	1.4400e-003	0.0000	3.0262	3.0262	3.0000e-005	0.0000	3.0270
Total	**0.0274**	**0.7422**	**0.4695**	**4.1100e-003**	**0.2770**	**1.4900e-003**	**0.2785**	**0.0712**	**1.4300e-003**	**0.0726**	**0.0000**	**424.8221**	**424.8221**	**0.0456**	**0.0000**	**425.9613**

3.5 Building Construction - 2036

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1138	0.6403	1.5475	3.0200e-003		8.7700e-003	8.7700e-003		8.7700e-003	8.7700e-003	0.0000	259.9015	259.9015	9.1600e-003	0.0000	260.1304
Total	**0.1138**	**0.6403**	**1.5475**	**3.0200e-003**		**8.7700e-003**	**8.7700e-003**		**8.7700e-003**	**8.7700e-003**	**0.0000**	**259.9015**	**259.9015**	**9.1600e-003**	**0.0000**	**260.1304**

3.5 Building Construction - 2036

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0410	1.5303	0.5756	5.6500e-003	0.1616	1.6900e-003	0.1633	0.0466	1.6100e-003	0.0482	0.0000	565.6896	565.6896	0.0399	0.0000	566.6882
Worker	0.1148	0.0561	0.8405	4.4900e-003	0.7225	2.3300e-003	0.7249	0.1919	2.1400e-003	0.1940	0.0000	406.4820	406.4820	4.1600e-003	0.0000	406.5860
Total	**0.1558**	**1.5864**	**1.4161**	**0.0101**	**0.8841**	**4.0200e-003**	**0.8881**	**0.2385**	**3.7500e-003**	**0.2422**	**0.0000**	**972.1715**	**972.1715**	**0.0441**	**0.0000**	**973.2741**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0303	0.1311	1.7001	3.0200e-003		4.0300e-003	4.0300e-003		4.0300e-003	4.0300e-003	0.0000	259.9012	259.9012	9.1600e-003	0.0000	260.1301
Total	**0.0303**	**0.1311**	**1.7001**	**3.0200e-003**		**4.0300e-003**	**4.0300e-003**		**4.0300e-003**	**4.0300e-003**	**0.0000**	**259.9012**	**259.9012**	**9.1600e-003**	**0.0000**	**260.1301**

3.5 Building Construction - 2036

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0410	1.5303	0.5756	5.6500e-003	0.1616	1.6900e-003	0.1633	0.0466	1.6100e-003	0.0482	0.0000	565.6896	565.6896	0.0399	0.0000	566.6882
Worker	0.1148	0.0561	0.8405	4.4900e-003	0.7225	2.3300e-003	0.7249	0.1919	2.1400e-003	0.1940	0.0000	406.4820	406.4820	4.1600e-003	0.0000	406.5860
Total	**0.1558**	**1.5864**	**1.4161**	**0.0101**	**0.8841**	**4.0200e-003**	**0.8881**	**0.2385**	**3.7500e-003**	**0.2422**	**0.0000**	**972.1715**	**972.1715**	**0.0441**	**0.0000**	**973.2741**

3.5 Building Construction - 2037

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1395	0.7846	1.8962	3.7100e-003		0.0108	0.0108		0.0108	0.0108	0.0000	318.4708	318.4708	0.0112	0.0000	318.7514
Total	**0.1395**	**0.7846**	**1.8962**	**3.7100e-003**		**0.0108**	**0.0108**		**0.0108**	**0.0108**	**0.0000**	**318.4708**	**318.4708**	**0.0112**	**0.0000**	**318.7514**

3.5 Building Construction - 2037

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0502	1.8752	0.7053	6.9300e-003	0.1980	2.0700e-003	0.2001	0.0571	1.9800e-003	0.0591	0.0000	693.1689	693.1689	0.0490	0.0000	694.3925
Worker	0.1407	0.0687	1.0299	5.5000e-003	0.8854	2.8600e-003	0.8882	0.2351	2.6300e-003	0.2378	0.0000	498.0835	498.0835	5.1000e-003	0.0000	498.2110
Total	**0.1909**	**1.9439**	**1.7352**	**0.0124**	**1.0833**	**4.9300e-003**	**1.0883**	**0.2922**	**4.6100e-003**	**0.2968**	**0.0000**	**1,191.2524**	**1,191.2524**	**0.0541**	**0.0000**	**1,192.6035**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0371	0.1606	2.0832	3.7100e-003		4.9400e-003	4.9400e-003		4.9400e-003	4.9400e-003	0.0000	318.4705	318.4705	0.0112	0.0000	318.7510
Total	**0.0371**	**0.1606**	**2.0832**	**3.7100e-003**		**4.9400e-003**	**4.9400e-003**		**4.9400e-003**	**4.9400e-003**	**0.0000**	**318.4705**	**318.4705**	**0.0112**	**0.0000**	**318.7510**

3.5 Building Construction - 2037

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0502	1.8752	0.7053	6.9300e-003	0.1980	2.0700e-003	0.2001	0.0571	1.9800e-003	0.0591	0.0000	693.1689	693.1689	0.0490	0.0000	694.3925
Worker	0.1407	0.0687	1.0299	5.5000e-003	0.8854	2.8600e-003	0.8882	0.2351	2.6300e-003	0.2378	0.0000	498.0835	498.0835	5.1000e-003	0.0000	498.2110
Total	**0.1909**	**1.9439**	**1.7352**	**0.0124**	**1.0833**	**4.9300e-003**	**1.0883**	**0.2922**	**4.6100e-003**	**0.2968**	**0.0000**	**1,191.2524**	**1,191.2524**	**0.0541**	**0.0000**	**1,192.6035**

3.5 Building Construction - 2038

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1395	0.7846	1.8962	3.7100e-003		0.0108	0.0108		0.0108	0.0108	0.0000	318.4708	318.4708	0.0112	0.0000	318.7514
Total	**0.1395**	**0.7846**	**1.8962**	**3.7100e-003**		**0.0108**	**0.0108**		**0.0108**	**0.0108**	**0.0000**	**318.4708**	**318.4708**	**0.0112**	**0.0000**	**318.7514**

3.5 Building Construction - 2038

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0502	1.8752	0.7053	6.9300e-003	0.1980	2.0700e-003	0.2001	0.0571	1.9800e-003	0.0591	0.0000	693.1689	693.1689	0.0490	0.0000	694.3925
Worker	0.1407	0.0687	1.0299	5.5000e-003	0.8854	2.8600e-003	0.8882	0.2351	2.6300e-003	0.2378	0.0000	498.0835	498.0835	5.1000e-003	0.0000	498.2110
Total	**0.1909**	**1.9439**	**1.7352**	**0.0124**	**1.0833**	**4.9300e-003**	**1.0883**	**0.2922**	**4.6100e-003**	**0.2968**	**0.0000**	**1,191.2524**	**1,191.2524**	**0.0541**	**0.0000**	**1,192.6035**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0371	0.1606	2.0832	3.7100e-003		4.9400e-003	4.9400e-003		4.9400e-003	4.9400e-003	0.0000	318.4705	318.4705	0.0112	0.0000	318.7510
Total	**0.0371**	**0.1606**	**2.0832**	**3.7100e-003**		**4.9400e-003**	**4.9400e-003**		**4.9400e-003**	**4.9400e-003**	**0.0000**	**318.4705**	**318.4705**	**0.0112**	**0.0000**	**318.7510**

3.5 Building Construction - 2038

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0502	1.8752	0.7053	6.9300e-003	0.1980	2.0700e-003	0.2001	0.0571	1.9800e-003	0.0591	0.0000	693.1689	693.1689	0.0490	0.0000	694.3925
Worker	0.1407	0.0687	1.0299	5.5000e-003	0.8854	2.8600e-003	0.8882	0.2351	2.6300e-003	0.2378	0.0000	498.0835	498.0835	5.1000e-003	0.0000	498.2110
Total	**0.1909**	**1.9439**	**1.7352**	**0.0124**	**1.0833**	**4.9300e-003**	**1.0883**	**0.2922**	**4.6100e-003**	**0.2968**	**0.0000**	**1,191.2524**	**1,191.2524**	**0.0541**	**0.0000**	**1,192.6035**

3.5 Building Construction - 2039

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.6700e-003	0.0150	0.0363	7.0000e-005		2.1000e-004	2.1000e-004		2.1000e-004	2.1000e-004	0.0000	6.1010	6.1010	2.1000e-004	0.0000	6.1064
Total	**2.6700e-003**	**0.0150**	**0.0363**	**7.0000e-005**		**2.1000e-004**	**2.1000e-004**		**2.1000e-004**	**2.1000e-004**	**0.0000**	**6.1010**	**6.1010**	**2.1000e-004**	**0.0000**	**6.1064**

3.5 Building Construction - 2039

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.6000e-004	0.0359	0.0135	1.3000e-004	3.7900e-003	4.0000e-005	3.8300e-003	1.0900e-003	4.0000e-005	1.1300e-003	0.0000	13.2791	13.2791	9.4000e-004	0.0000	13.3025
Worker	2.7000e-003	1.3200e-003	0.0197	1.1000e-004	0.0170	5.0000e-005	0.0170	4.5000e-003	5.0000e-005	4.5500e-003	0.0000	9.5418	9.5418	1.0000e-004	0.0000	9.5443
Total	**3.6600e-003**	**0.0372**	**0.0332**	**2.4000e-004**	**0.0208**	**9.0000e-005**	**0.0209**	**5.5900e-003**	**9.0000e-005**	**5.6800e-003**	**0.0000**	**22.8209**	**22.8209**	**1.0400e-003**	**0.0000**	**22.8468**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	7.1000e-004	3.0800e-003	0.0399	7.0000e-005		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005	0.0000	6.1010	6.1010	2.1000e-004	0.0000	6.1063
Total	**7.1000e-004**	**3.0800e-003**	**0.0399**	**7.0000e-005**		**9.0000e-005**	**9.0000e-005**		**9.0000e-005**	**9.0000e-005**	**0.0000**	**6.1010**	**6.1010**	**2.1000e-004**	**0.0000**	**6.1063**

3.5 Building Construction - 2039

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.6000e-004	0.0359	0.0135	1.3000e-004	3.7900e-003	4.0000e-005	3.8300e-003	1.0900e-003	4.0000e-005	1.1300e-003	0.0000	13.2791	13.2791	9.4000e-004	0.0000	13.3025
Worker	2.7000e-003	1.3200e-003	0.0197	1.1000e-004	0.0170	5.0000e-005	0.0170	4.5000e-003	5.0000e-005	4.5500e-003	0.0000	9.5418	9.5418	1.0000e-004	0.0000	9.5443
Total	**3.6600e-003**	**0.0372**	**0.0332**	**2.4000e-004**	**0.0208**	**9.0000e-005**	**0.0209**	**5.5900e-003**	**9.0000e-005**	**5.6800e-003**	**0.0000**	**22.8209**	**22.8209**	**1.0400e-003**	**0.0000**	**22.8468**

3.6 Paving - 2039

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0627	0.2682	0.8701	1.5400e-003		0.0103	0.0103		0.0103	0.0103	0.0000	132.5473	132.5473	5.1000e-003	0.0000	132.6749
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0627**	**0.2682**	**0.8701**	**1.5400e-003**		**0.0103**	**0.0103**		**0.0103**	**0.0103**	**0.0000**	**132.5473**	**132.5473**	**5.1000e-003**	**0.0000**	**132.6749**

3.6 Paving - 2039

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4400e-003	7.0000e-004	0.0105	6.0000e-005	9.0600e-003	3.0000e-005	9.0900e-003	2.4100e-003	3.0000e-005	2.4300e-003	0.0000	5.0952	5.0952	5.0000e-005	0.0000	5.0965
Total	**1.4400e-003**	**7.0000e-004**	**0.0105**	**6.0000e-005**	**9.0600e-003**	**3.0000e-005**	**9.0900e-003**	**2.4100e-003**	**3.0000e-005**	**2.4300e-003**	**0.0000**	**5.0952**	**5.0952**	**5.0000e-005**	**0.0000**	**5.0965**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0154	0.0669	0.9513	1.5400e-003		2.0600e-003	2.0600e-003		2.0600e-003	2.0600e-003	0.0000	132.5472	132.5472	5.1000e-003	0.0000	132.6747
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0154**	**0.0669**	**0.9513**	**1.5400e-003**		**2.0600e-003**	**2.0600e-003**		**2.0600e-003**	**2.0600e-003**	**0.0000**	**132.5472**	**132.5472**	**5.1000e-003**	**0.0000**	**132.6747**

3.6 Paving - 2039

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4400e-003	7.0000e-004	0.0105	6.0000e-005	9.0600e-003	3.0000e-005	9.0900e-003	2.4100e-003	3.0000e-005	2.4300e-003	0.0000	5.0952	5.0952	5.0000e-005	0.0000	5.0965
Total	**1.4400e-003**	**7.0000e-004**	**0.0105**	**6.0000e-005**	**9.0600e-003**	**3.0000e-005**	**9.0900e-003**	**2.4100e-003**	**3.0000e-005**	**2.4300e-003**	**0.0000**	**5.0952**	**5.0952**	**5.0000e-005**	**0.0000**	**5.0965**

3.7 Architectural Coating - 2039

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.5842					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.4800e-003	0.0417	0.0987	1.6000e-004		5.4000e-004	5.4000e-004		5.4000e-004	5.4000e-004	0.0000	14.0429	14.0429	5.2000e-004	0.0000	14.0559
Total	**1.5907**	**0.0417**	**0.0987**	**1.6000e-004**		**5.4000e-004**	**5.4000e-004**		**5.4000e-004**	**5.4000e-004**	**0.0000**	**14.0429**	**14.0429**	**5.2000e-004**	**0.0000**	**14.0559**

3.7 Architectural Coating - 2039

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0119	5.8100e-003	0.0871	4.6000e-004	0.0749	2.4000e-004	0.0751	0.0199	2.2000e-004	0.0201	0.0000	42.1199	42.1199	4.3000e-004	0.0000	42.1307
Total	**0.0119**	**5.8100e-003**	**0.0871**	**4.6000e-004**	**0.0749**	**2.4000e-004**	**0.0751**	**0.0199**	**2.2000e-004**	**0.0201**	**0.0000**	**42.1199**	**42.1199**	**4.3000e-004**	**0.0000**	**42.1307**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.5842					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.6300e-003	7.0800e-003	0.1008	1.6000e-004		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004	0.0000	14.0429	14.0429	5.2000e-004	0.0000	14.0559
Total	**1.5859**	**7.0800e-003**	**0.1008**	**1.6000e-004**		**2.2000e-004**	**2.2000e-004**		**2.2000e-004**	**2.2000e-004**	**0.0000**	**14.0429**	**14.0429**	**5.2000e-004**	**0.0000**	**14.0559**

3.7 Architectural Coating - 2039

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0119	5.8100e-003	0.0871	4.6000e-004	0.0749	2.4000e-004	0.0751	0.0199	2.2000e-004	0.0201	0.0000	42.1199	42.1199	4.3000e-004	0.0000	42.1307
Total	**0.0119**	**5.8100e-003**	**0.0871**	**4.6000e-004**	**0.0749**	**2.4000e-004**	**0.0751**	**0.0199**	**2.2000e-004**	**0.0201**	**0.0000**	**42.1199**	**42.1199**	**4.3000e-004**	**0.0000**	**42.1307**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.3658	6.4764	18.0126	0.0917	11.2269	0.0451	11.2719	3.0067	0.0418	3.0486	0.0000	8,538.4079	8,538.4079	0.3153	0.0000	8,546.2901
Unmitigated	1.3658	6.4764	18.0126	0.0917	11.2269	0.0451	11.2719	3.0067	0.0418	3.0486	0.0000	8,538.4079	8,538.4079	0.3153	0.0000	8,546.2901

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Enclosed Parking with Elevator	0.00	0.00	0.00		
University/College (4Yr)	11,970.00	9,100.00	0.00	29,588,293	29,588,293
Total	11,970.00	9,100.00	0.00	29,588,293	29,588,293

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
University/College (4Yr)	16.60	8.40	6.90	6.40	88.60	5.00	91	9	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Enclosed Parking with Elevator	0.570257	0.042258	0.208917	0.102527	0.012284	0.005810	0.027501	0.020703	0.001922	0.001419	0.005012	0.000641	0.000749
University/College (4Yr)	0.570257	0.042258	0.208917	0.102527	0.012284	0.005810	0.027501	0.020703	0.001922	0.001419	0.005012	0.000641	0.000749

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	4,057.8601	4,057.8601	0.1675	0.0347	4,072.3773
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	4,057.8601	4,057.8601	0.1675	0.0347	4,072.3773
NaturalGas Mitigated	0.0524	0.4759	0.3997	2.8600e-003		0.0362	0.0362		0.0362	0.0362	0.0000	518.0582	518.0582	9.9300e-003	9.5000e-003	521.1368
NaturalGas Unmitigated	0.0524	0.4759	0.3997	2.8600e-003		0.0362	0.0362		0.0362	0.0362	0.0000	518.0582	518.0582	9.9300e-003	9.5000e-003	521.1368

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
University/College (4Yr)	9.70804e+006	0.0524	0.4759	0.3997	2.8600e-003		0.0362	0.0362		0.0362	0.0362	0.0000	518.0582	518.0582	9.9300e-003	9.5000e-003	521.1368
Total		**0.0524**	**0.4759**	**0.3997**	**2.8600e-003**		**0.0362**	**0.0362**		**0.0362**	**0.0362**	**0.0000**	**518.0582**	**518.0582**	**9.9300e-003**	**9.5000e-003**	**521.1368**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
University/College (4Yr)	9.70804e+006	0.0524	0.4759	0.3997	2.8600e-003		0.0362	0.0362		0.0362	0.0362	0.0000	518.0582	518.0582	9.9300e-003	9.5000e-003	521.1368
Total		**0.0524**	**0.4759**	**0.3997**	**2.8600e-003**		**0.0362**	**0.0362**		**0.0362**	**0.0362**	**0.0000**	**518.0582**	**518.0582**	**9.9300e-003**	**9.5000e-003**	**521.1368**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Enclosed Parking with Elevator	4.91478e+006	1,565.9548	0.0647	0.0134	1,571.5571
University/College (4Yr)	7.8209e+006	2,491.9053	0.1029	0.0213	2,500.8202
Total		**4,057.8601**	**0.1675**	**0.0347**	**4,072.3773**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Enclosed Parking with Elevator	4.91478e+006	1,565.9548	0.0647	0.0134	1,571.5571
University/College (4Yr)	7.8209e+006	2,491.9053	0.1029	0.0213	2,500.8202
Total		**4,057.8601**	**0.1675**	**0.0347**	**4,072.3773**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	2.6568	8.9000e-004	0.0995	1.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004	0.0000	0.1945	0.1945	5.0000e-004	0.0000	0.2071
Unmitigated	2.6568	8.9000e-004	0.0995	1.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004	0.0000	0.1945	0.1945	5.0000e-004	0.0000	0.2071

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.3052					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.3425					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	9.1000e-003	8.9000e-004	0.0995	1.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004	0.0000	0.1945	0.1945	5.0000e-004	0.0000	0.2071
Total	**2.6568**	**8.9000e-004**	**0.0995**	**1.0000e-005**		**3.5000e-004**	**3.5000e-004**		**3.5000e-004**	**3.5000e-004**	**0.0000**	**0.1945**	**0.1945**	**5.0000e-004**	**0.0000**	**0.2071**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.3052					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.3425					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	9.1000e-003	8.9000e-004	0.0995	1.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004	0.0000	0.1945	0.1945	5.0000e-004	0.0000	0.2071
Total	**2.6568**	**8.9000e-004**	**0.0995**	**1.0000e-005**		**3.5000e-004**	**3.5000e-004**		**3.5000e-004**	**3.5000e-004**	**0.0000**	**0.1945**	**0.1945**	**5.0000e-004**	**0.0000**	**0.2071**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	149.9184	0.4944	0.0128	166.0835
Unmitigated	149.9184	0.4944	0.0128	166.0835

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
University/College (4Yr)	14.9877 / 23.4423	149.9184	0.4944	0.0128	166.0835
Total		**149.9184**	**0.4944**	**0.0128**	**166.0835**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
University/College (4Yr)	14.9877 / 23.4423	149.9184	0.4944	0.0128	166.0835
Total		**149.9184**	**0.4944**	**0.0128**	**166.0835**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	259.3210	15.3254	0.0000	642.4567
Unmitigated	259.3210	15.3254	0.0000	642.4567

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
University/College (4Yr)	1277.5	259.3210	15.3254	0.0000	642.4567
Total		**259.3210**	**15.3254**	**0.0000**	**642.4567**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
University/College (4Yr)	1277.5	259.3210	15.3254	0.0000	642.4567
Total		**259.3210**	**15.3254**	**0.0000**	**642.4567**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

CSUF MPU - Construction Phase 3

Orange County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
University/College (4Yr)	7,000.00	Student	29.54	633,271.00	0
Enclosed Parking with Elevator	838.70	1000sqft	19.25	838,700.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	30
Climate Zone	8			**Operational Year**	2035
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

CSUF MPU - Construction Phase 3 - Orange County, Winter

Project Characteristics - CalEEMod operational years jump from 2035 to 2040, therefore earlier (more conservative) year of 2035 used for project buildout of 2039

Land Use - CalEEMod only allows for student # input for education; student # input calibrated to equal proposed SF, does not represent # of students served; academic space/amenities/innovation center combined under educational

Construction Phase - Construction phases extended by 100% (except building construction) to be consistent with plan timeline

Off-road Equipment -

Off-road Equipment - Welders not anticpated for building construction

Off-road Equipment - '

Off-road Equipment -

Off-road Equipment - '

Off-road Equipment -

Trips and VMT -

Demolition - Demo determined by Google Earth analysis of building footprint/floors

Grading - Export/import conservatively determined by SF from phase * 20 depth of cut. 50% exported and 50% imported.

Architectural Coating - Compliance with SCAQMD Rule 1113

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Area Coating -

Energy Use -

Water And Wastewater -

Solid Waste -

Construction Off-road Equipment Mitigation - Construction would require Tier 4 engines; projects would comply with SCAQMD rules re: fugitive dust

Mobile Commute Mitigation -

Area Mitigation -

Fleet Mix -

CSUF MPU - Construction Phase 3 - Orange County, Winter

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final

tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	50.00	100.00
tblConstructionPhase	NumDays	30.00	60.00
tblConstructionPhase	NumDays	75.00	150.00
tblConstructionPhase	NumDays	55.00	110.00
tblConstructionPhase	NumDays	55.00	110.00
tblGrading	MaterialExported	0.00	202,390.00
tblGrading	MaterialImported	0.00	101,195.00
tblLandUse	LandUseSquareFeet	1,286,582.28	633,271.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2035	4.0493	39.3845	41.9444	0.2366	18.2675	0.3753	18.5592	9.9840	0.3726	10.2757	0.0000	26,164.0719	26,164.0719	2.3189	0.0000	26,222.0453
2036	4.0493	39.3845	41.9444	0.2366	20.4243	0.3753	20.7996	6.5883	0.3726	6.9609	0.0000	26,164.0719	26,164.0719	2.3189	0.0000	26,222.0453
2037	2.6866	20.7060	27.7760	0.1223	8.4475	0.1203	8.5678	2.2751	0.1178	2.3929	0.0000	12,609.0281	12,609.0281	0.5571	0.0000	12,622.9557
2038	2.6866	20.7060	27.7760	0.1223	8.4475	0.1203	8.5678	2.2751	0.1178	2.3929	0.0000	12,609.0281	12,609.0281	0.5571	0.0000	12,622.9557
2039	29.1675	20.7060	27.7760	0.1223	8.4475	0.1879	8.5678	2.2751	0.1879	2.3929	0.0000	12,609.0281	12,609.0281	0.5571	0.0000	12,622.9557
Maximum	**29.1675**	**39.3845**	**41.9444**	**0.2366**	**20.4243**	**0.3753**	**20.7996**	**9.9840**	**0.3726**	**10.2757**	**0.0000**	**26,164.0719**	**26,164.0719**	**2.3189**	**0.0000**	**26,222.0453**

2.1 Overall Construction (Maximum Daily Emission)

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2035	1.8992	33.0904	52.4186	0.2366	10.2565	0.1626	10.4191	4.5222	0.1599	4.5848	0.0000	26,164.0719	26,164.0719	2.3189	0.0000	26,222.0453
2036	1.9020	33.0904	52.4186	0.2366	15.5281	0.1626	15.6907	4.5912	0.1599	4.7511	0.0000	26,164.0719	26,164.0719	2.3189	0.0000	26,222.0453
2037	1.9020	15.9244	29.2094	0.1223	8.4475	0.0758	8.5233	2.2751	0.0733	2.3484	0.0000	12,609.0281	12,609.0281	0.5571	0.0000	12,622.9557
2038	1.9020	15.9244	29.2094	0.1223	8.4475	0.0758	8.5233	2.2751	0.0733	2.3484	0.0000	12,609.0281	12,609.0281	0.5571	0.0000	12,622.9557
2039	29.0793	15.9244	29.2094	0.1223	8.4475	0.0758	8.5233	2.2751	0.0733	2.3484	0.0000	12,609.0281	12,609.0281	0.5571	0.0000	12,622.9557
Maximum	**29.0793**	**33.0904**	**52.4186**	**0.2366**	**15.5281**	**0.1626**	**15.6907**	**4.5912**	**0.1599**	**4.7511**	**0.0000**	**26,164.0719**	**26,164.0719**	**2.3189**	**0.0000**	**26,222.0453**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**13.97**	**19.12**	**-15.10**	**0.00**	**20.16**	**53.14**	**20.57**	**31.88**	**53.82**	**32.91**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	14.5809	7.1500e-003	0.7958	6.0000e-005		2.8200e-003	2.8200e-003		2.8200e-003	2.8200e-003		1.7155	1.7155	4.4200e-003		1.8260
Energy	0.2868	2.6076	2.1904	0.0157		0.1982	0.1982		0.1982	0.1982		3,129.1038	3,129.1038	0.0600	0.0574	3,147.6985
Mobile	9.3969	42.6638	118.8455	0.6049	76.3044	0.3017	76.6061	20.4056	0.2800	20.6856		62,101.4962	62,101.4962	2.3320		62,159.7968
Total	**24.2646**	**45.2786**	**121.8317**	**0.6206**	**76.3044**	**0.5027**	**76.8071**	**20.4056**	**0.4810**	**20.8866**		**65,232.3155**	**65,232.3155**	**2.3964**	**0.0574**	**65,309.3213**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	14.5809	7.1500e-003	0.7958	6.0000e-005		2.8200e-003	2.8200e-003		2.8200e-003	2.8200e-003		1.7155	1.7155	4.4200e-003		1.8260
Energy	0.2868	2.6076	2.1904	0.0157		0.1982	0.1982		0.1982	0.1982		3,129.1038	3,129.1038	0.0600	0.0574	3,147.6985
Mobile	9.3969	42.6638	118.8455	0.6049	76.3044	0.3017	76.6061	20.4056	0.2800	20.6856		62,101.4962	62,101.4962	2.3320		62,159.7968
Total	**24.2646**	**45.2786**	**121.8317**	**0.6206**	**76.3044**	**0.5027**	**76.8071**	**20.4056**	**0.4810**	**20.8866**		**65,232.3155**	**65,232.3155**	**2.3964**	**0.0574**	**65,309.3213**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2035	5/18/2035	5	100	
2	Site Preparation	Site Preparation	5/19/2035	8/10/2035	5	60	
3	Grading	Grading	8/11/2035	3/7/2036	5	150	
4	Building Construction	Building Construction	3/8/2036	1/7/2039	5	740	
5	Paving	Paving	1/8/2039	6/10/2039	5	110	
6	Architectural Coating	Architectural Coating	6/11/2039	11/11/2039	5	110	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 375

Acres of Paving: 19.25

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 949,907; Non-Residential Outdoor: 316,636; Striped Parking Area: 50,322 (Architectural Coating – sqft)

OffRoad Equipment

CSUF MPU - Construction Phase 3 - Orange County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	0	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	637.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	37,948.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	618.00	241.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	124.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 2035

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.3781	0.0000	1.3781	0.2087	0.0000	0.2087			0.0000			0.0000
Off-Road	1.8311	6.9070	18.7067	0.0462		0.2267	0.2267		0.2267	0.2267		4,378.5819	4,378.5819	0.1599		4,382.5795
Total	**1.8311**	**6.9070**	**18.7067**	**0.0462**	**1.3781**	**0.2267**	**1.6048**	**0.2087**	**0.2267**	**0.4354**		**4,378.5819**	**4,378.5819**	**0.1599**		**4,382.5795**

3.2 Demolition - 2035

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0277	0.7497	0.4827	4.1600e-003	0.1109	1.5200e-003	0.1124	0.0304	1.4500e-003	0.0318		473.7932	473.7932	0.0519		475.0910
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0297	0.0124	0.1862	1.0100e-003	0.1677	5.3000e-004	0.1682	0.0445	4.9000e-004	0.0450		100.5764	100.5764	1.0300e-003		100.6021
Total	**0.0573**	**0.7621**	**0.6689**	**5.1700e-003**	**0.2786**	**2.0500e-003**	**0.2806**	**0.0748**	**1.9400e-003**	**0.0768**		**574.3696**	**574.3696**	**0.0529**		**575.6931**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.6201	0.0000	0.6201	0.0939	0.0000	0.0939			0.0000			0.0000
Off-Road	0.4623	2.0032	23.2798	0.0462		0.0616	0.0616		0.0616	0.0616	0.0000	4,378.5819	4,378.5819	0.1599		4,382.5795
Total	**0.4623**	**2.0032**	**23.2798**	**0.0462**	**0.6201**	**0.0616**	**0.6818**	**0.0939**	**0.0616**	**0.1555**	**0.0000**	**4,378.5819**	**4,378.5819**	**0.1599**		**4,382.5795**

3.2 Demolition - 2035

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0277	0.7497	0.4827	4.1600e-003	0.1109	1.5200e-003	0.1124	0.0304	1.4500e-003	0.0318		473.7932	473.7932	0.0519		475.0910
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0297	0.0124	0.1862	1.0100e-003	0.1677	5.3000e-004	0.1682	0.0445	4.9000e-004	0.0450		100.5764	100.5764	1.0300e-003		100.6021
Total	**0.0573**	**0.7621**	**0.6689**	**5.1700e-003**	**0.2786**	**2.0500e-003**	**0.2806**	**0.0748**	**1.9400e-003**	**0.0768**		**574.3696**	**574.3696**	**0.0529**		**575.6931**

3.3 Site Preparation - 2035

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	2.1483	10.1399	15.9731	0.0466		0.2911	0.2911		0.2911	0.2911		4,409.7537	4,409.7537	0.1889		4,414.4768
Total	**2.1483**	**10.1399**	**15.9731**	**0.0466**	**18.0663**	**0.2911**	**18.3574**	**9.9307**	**0.2911**	**10.2218**		**4,409.7537**	**4,409.7537**	**0.1889**		**4,414.4768**

3.3 Site Preparation - 2035

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0356	0.0149	0.2235	1.2100e-003	0.2012	6.4000e-004	0.2018	0.0534	5.9000e-004	0.0540		120.6917	120.6917	1.2300e-003		120.7225
Total	**0.0356**	**0.0149**	**0.2235**	**1.2100e-003**	**0.2012**	**6.4000e-004**	**0.2018**	**0.0534**	**5.9000e-004**	**0.0540**		**120.6917**	**120.6917**	**1.2300e-003**		**120.7225**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.1298	0.0000	8.1298	4.4688	0.0000	4.4688			0.0000			0.0000
Off-Road	0.4656	2.0175	20.8690	0.0466		0.0621	0.0621		0.0621	0.0621	0.0000	4,409.7537	4,409.7537	0.1889		4,414.4768
Total	**0.4656**	**2.0175**	**20.8690**	**0.0466**	**8.1298**	**0.0621**	**8.1919**	**4.4688**	**0.0621**	**4.5309**	**0.0000**	**4,409.7537**	**4,409.7537**	**0.1889**		**4,414.4768**

3.3 Site Preparation - 2035

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0356	0.0149	0.2235	1.2100e-003	0.2012	6.4000e-004	0.2018	0.0534	5.9000e-004	0.0540		120.6917	120.6917	1.2300e-003		120.7225
Total	**0.0356**	**0.0149**	**0.2235**	**1.2100e-003**	**0.2012**	**6.4000e-004**	**0.2018**	**0.0534**	**5.9000e-004**	**0.0540**		**120.6917**	**120.6917**	**1.2300e-003**		**120.7225**

3.4 Grading - 2035

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.9022	0.0000	8.9022	3.6312	0.0000	3.6312			0.0000			0.0000
Off-Road	2.9116	9.5942	22.5250	0.0699		0.3142	0.3142		0.3142	0.3142		7,213.1148	7,213.1148	0.2560		7,219.5135
Total	**2.9116**	**9.5942**	**22.5250**	**0.0699**	**8.9022**	**0.3142**	**9.2165**	**3.6312**	**0.3142**	**3.9454**		**7,213.1148**	**7,213.1148**	**0.2560**		**7,219.5135**

3.4 Grading - 2035

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.0981	29.7738	19.1711	0.1653	6.0270	0.0604	6.0873	1.6039	0.0577	1.6617		18,816.8552	18,816.8552	2.0616		18,868.3957
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0396	0.0166	0.2483	1.3400e-003	0.2236	7.1000e-004	0.2243	0.0593	6.5000e-004	0.0599		134.1019	134.1019	1.3700e-003		134.1361
Total	**1.1377**	**29.7903**	**19.4194**	**0.1667**	**6.2505**	**0.0611**	**6.3116**	**1.6632**	**0.0584**	**1.7216**		**18,950.9571**	**18,950.9571**	**2.0630**		**19,002.5318**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.0060	0.0000	4.0060	1.6340	0.0000	1.6340			0.0000			0.0000
Off-Road	0.7616	3.3000	32.9991	0.0699		0.1015	0.1015		0.1015	0.1015	0.0000	7,213.1148	7,213.1148	0.2560		7,219.5135
Total	**0.7616**	**3.3000**	**32.9991**	**0.0699**	**4.0060**	**0.1015**	**4.1075**	**1.6340**	**0.1015**	**1.7356**	**0.0000**	**7,213.1148**	**7,213.1148**	**0.2560**		**7,219.5135**

3.4 Grading - 2035

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.0981	29.7738	19.1711	0.1653	6.0270	0.0604	6.0873	1.6039	0.0577	1.6617		18,816.8552	18,816.8552	2.0616		18,868.3957
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0396	0.0166	0.2483	1.3400e-003	0.2236	7.1000e-004	0.2243	0.0593	6.5000e-004	0.0599		134.1019	134.1019	1.3700e-003		134.1361
Total	**1.1377**	**29.7903**	**19.4194**	**0.1667**	**6.2505**	**0.0611**	**6.3116**	**1.6632**	**0.0584**	**1.7216**		**18,950.9571**	**18,950.9571**	**2.0630**		**19,002.5318**

3.4 Grading - 2036

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.9022	0.0000	8.9022	3.6312	0.0000	3.6312			0.0000			0.0000
Off-Road	2.9116	9.5942	22.5250	0.0699		0.3142	0.3142		0.3142	0.3142		7,213.1148	7,213.1148	0.2560		7,219.5135
Total	**2.9116**	**9.5942**	**22.5250**	**0.0699**	**8.9022**	**0.3142**	**9.2165**	**3.6312**	**0.3142**	**3.9454**		**7,213.1148**	**7,213.1148**	**0.2560**		**7,219.5135**

3.4 Grading - 2036

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.0981	29.7738	19.1711	0.1653	11.2986	0.0604	11.3589	2.8979	0.0577	2.9556		18,816.8552	18,816.8552	2.0616		18,868.3957
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0396	0.0166	0.2483	1.3400e-003	0.2236	7.1000e-004	0.2243	0.0593	6.5000e-004	0.0599		134.1019	134.1019	1.3700e-003		134.1361
Total	**1.1377**	**29.7903**	**19.4194**	**0.1667**	**11.5221**	**0.0611**	**11.5832**	**2.9572**	**0.0584**	**3.0155**		**18,950.9571**	**18,950.9571**	**2.0630**		**19,002.5318**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.0060	0.0000	4.0060	1.6340	0.0000	1.6340			0.0000			0.0000
Off-Road	0.7616	3.3000	32.9991	0.0699		0.1015	0.1015		0.1015	0.1015	0.0000	7,213.1148	7,213.1148	0.2560		7,219.5135
Total	**0.7616**	**3.3000**	**32.9991**	**0.0699**	**4.0060**	**0.1015**	**4.1075**	**1.6340**	**0.1015**	**1.7356**	**0.0000**	**7,213.1148**	**7,213.1148**	**0.2560**		**7,219.5135**

3.4 Grading - 2036

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.0981	29.7738	19.1711	0.1653	11.2986	0.0604	11.3589	2.8979	0.0577	2.9556		18,816.8552	18,816.8552	2.0616		18,868.3957
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0396	0.0166	0.2483	1.3400e-003	0.2236	7.1000e-004	0.2243	0.0593	6.5000e-004	0.0599		134.1019	134.1019	1.3700e-003		134.1361
Total	**1.1377**	**29.7903**	**19.4194**	**0.1667**	**11.5221**	**0.0611**	**11.5832**	**2.9572**	**0.0584**	**3.0155**		**18,950.9571**	**18,950.9571**	**2.0630**		**19,002.5318**

3.5 Building Construction - 2036

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0686	6.0124	14.5300	0.0284		0.0824	0.0824		0.0824	0.0824		2,690.0690	2,690.0690	0.0948		2,692.4385
Total	**1.0686**	**6.0124**	**14.5300**	**0.0284**		**0.0824**	**0.0824**		**0.0824**	**0.0824**		**2,690.0690**	**2,690.0690**	**0.0948**		**2,692.4385**

3.5 Building Construction - 2036

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3946	14.1818	5.5741	0.0524	1.5397	0.0160	1.5557	0.4431	0.0153	0.4584		5,775.2111	5,775.2111	0.4200		5,785.7112
Worker	1.2234	0.5118	7.6719	0.0415	6.9078	0.0219	6.9297	1.8320	0.0201	1.8521		4,143.7480	4,143.7480	0.0423		4,144.8060
Total	**1.6180**	**14.6936**	**13.2460**	**0.0939**	**8.4475**	**0.0379**	**8.4854**	**2.2751**	**0.0354**	**2.3105**		**9,918.9591**	**9,918.9591**	**0.4623**		**9,930.5172**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2840	1.2307	15.9634	0.0284		0.0379	0.0379		0.0379	0.0379	0.0000	2,690.0690	2,690.0690	0.0948		2,692.4385
Total	**0.2840**	**1.2307**	**15.9634**	**0.0284**		**0.0379**	**0.0379**		**0.0379**	**0.0379**	**0.0000**	**2,690.0690**	**2,690.0690**	**0.0948**		**2,692.4385**

3.5 Building Construction - 2036

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3946	14.1818	5.5741	0.0524	1.5397	0.0160	1.5557	0.4431	0.0153	0.4584		5,775.2111	5,775.2111	0.4200		5,785.7112
Worker	1.2234	0.5118	7.6719	0.0415	6.9078	0.0219	6.9297	1.8320	0.0201	1.8521		4,143.7480	4,143.7480	0.0423		4,144.8060
Total	**1.6180**	**14.6936**	**13.2460**	**0.0939**	**8.4475**	**0.0379**	**8.4854**	**2.2751**	**0.0354**	**2.3105**		**9,918.9591**	**9,918.9591**	**0.4623**		**9,930.5172**

3.5 Building Construction - 2037

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0686	6.0124	14.5300	0.0284		0.0824	0.0824		0.0824	0.0824		2,690.0690	2,690.0690	0.0948		2,692.4385
Total	**1.0686**	**6.0124**	**14.5300**	**0.0284**		**0.0824**	**0.0824**		**0.0824**	**0.0824**		**2,690.0690**	**2,690.0690**	**0.0948**		**2,692.4385**

3.5 Building Construction - 2037

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3946	14.1818	5.5741	0.0524	1.5397	0.0160	1.5557	0.4431	0.0153	0.4584		5,775.2111	5,775.2111	0.4200		5,785.7112
Worker	1.2234	0.5118	7.6719	0.0415	6.9078	0.0219	6.9297	1.8320	0.0201	1.8521		4,143.7480	4,143.7480	0.0423		4,144.8060
Total	**1.6180**	**14.6936**	**13.2460**	**0.0939**	**8.4475**	**0.0379**	**8.4854**	**2.2751**	**0.0354**	**2.3105**		**9,918.9591**	**9,918.9591**	**0.4623**		**9,930.5172**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2840	1.2307	15.9634	0.0284		0.0379	0.0379		0.0379	0.0379	0.0000	2,690.0690	2,690.0690	0.0948		2,692.4385
Total	**0.2840**	**1.2307**	**15.9634**	**0.0284**		**0.0379**	**0.0379**		**0.0379**	**0.0379**	**0.0000**	**2,690.0690**	**2,690.0690**	**0.0948**		**2,692.4385**

3.5 Building Construction - 2037

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3946	14.1818	5.5741	0.0524	1.5397	0.0160	1.5557	0.4431	0.0153	0.4584		5,775.2111	5,775.2111	0.4200		5,785.7112
Worker	1.2234	0.5118	7.6719	0.0415	6.9078	0.0219	6.9297	1.8320	0.0201	1.8521		4,143.7480	4,143.7480	0.0423		4,144.8060
Total	**1.6180**	**14.6936**	**13.2460**	**0.0939**	**8.4475**	**0.0379**	**8.4854**	**2.2751**	**0.0354**	**2.3105**		**9,918.9591**	**9,918.9591**	**0.4623**		**9,930.5172**

3.5 Building Construction - 2038

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0686	6.0124	14.5300	0.0284		0.0824	0.0824		0.0824	0.0824		2,690.0690	2,690.0690	0.0948		2,692.4385
Total	**1.0686**	**6.0124**	**14.5300**	**0.0284**		**0.0824**	**0.0824**		**0.0824**	**0.0824**		**2,690.0690**	**2,690.0690**	**0.0948**		**2,692.4385**

3.5 Building Construction - 2038

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3946	14.1818	5.5741	0.0524	1.5397	0.0160	1.5557	0.4431	0.0153	0.4584		5,775.2111	5,775.2111	0.4200		5,785.7112
Worker	1.2234	0.5118	7.6719	0.0415	6.9078	0.0219	6.9297	1.8320	0.0201	1.8521		4,143.7480	4,143.7480	0.0423		4,144.8060
Total	**1.6180**	**14.6936**	**13.2460**	**0.0939**	**8.4475**	**0.0379**	**8.4854**	**2.2751**	**0.0354**	**2.3105**		**9,918.9591**	**9,918.9591**	**0.4623**		**9,930.5172**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2840	1.2307	15.9634	0.0284		0.0379	0.0379		0.0379	0.0379	0.0000	2,690.0690	2,690.0690	0.0948		2,692.4385
Total	**0.2840**	**1.2307**	**15.9634**	**0.0284**		**0.0379**	**0.0379**		**0.0379**	**0.0379**	**0.0000**	**2,690.0690**	**2,690.0690**	**0.0948**		**2,692.4385**

3.5 Building Construction - 2038

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3946	14.1818	5.5741	0.0524	1.5397	0.0160	1.5557	0.4431	0.0153	0.4584		5,775.2111	5,775.2111	0.4200		5,785.7112
Worker	1.2234	0.5118	7.6719	0.0415	6.9078	0.0219	6.9297	1.8320	0.0201	1.8521		4,143.7480	4,143.7480	0.0423		4,144.8060
Total	**1.6180**	**14.6936**	**13.2460**	**0.0939**	**8.4475**	**0.0379**	**8.4854**	**2.2751**	**0.0354**	**2.3105**		**9,918.9591**	**9,918.9591**	**0.4623**		**9,930.5172**

3.5 Building Construction - 2039

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0686	6.0124	14.5300	0.0284		0.0824	0.0824		0.0824	0.0824		2,690.0690	2,690.0690	0.0948		2,692.4385
Total	**1.0686**	**6.0124**	**14.5300**	**0.0284**		**0.0824**	**0.0824**		**0.0824**	**0.0824**		**2,690.0690**	**2,690.0690**	**0.0948**		**2,692.4385**

3.5 Building Construction - 2039

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3946	14.1818	5.5741	0.0524	1.5397	0.0160	1.5557	0.4431	0.0153	0.4584		5,775.2111	5,775.2111	0.4200		5,785.7112
Worker	1.2234	0.5118	7.6719	0.0415	6.9078	0.0219	6.9297	1.8320	0.0201	1.8521		4,143.7480	4,143.7480	0.0423		4,144.8060
Total	**1.6180**	**14.6936**	**13.2460**	**0.0939**	**8.4475**	**0.0379**	**8.4854**	**2.2751**	**0.0354**	**2.3105**		**9,918.9591**	**9,918.9591**	**0.4623**		**9,930.5172**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2840	1.2307	15.9634	0.0284		0.0379	0.0379		0.0379	0.0379	0.0000	2,690.0690	2,690.0690	0.0948		2,692.4385
Total	**0.2840**	**1.2307**	**15.9634**	**0.0284**		**0.0379**	**0.0379**		**0.0379**	**0.0379**	**0.0000**	**2,690.0690**	**2,690.0690**	**0.0948**		**2,692.4385**

3.5 Building Construction - 2039

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3946	14.1818	5.5741	0.0524	1.5397	0.0160	1.5557	0.4431	0.0153	0.4584		5,775.2111	5,775.2111	0.4200		5,785.7112
Worker	1.2234	0.5118	7.6719	0.0415	6.9078	0.0219	6.9297	1.8320	0.0201	1.8521		4,143.7480	4,143.7480	0.0423		4,144.8060
Total	**1.6180**	**14.6936**	**13.2460**	**0.0939**	**8.4475**	**0.0379**	**8.4854**	**2.2751**	**0.0354**	**2.3105**		**9,918.9591**	**9,918.9591**	**0.4623**		**9,930.5172**

3.6 Paving - 2039

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1405	4.8761	15.8203	0.0281		0.1874	0.1874		0.1874	0.1874		2,656.5168	2,656.5168	0.1022		2,659.0727
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.1405**	**4.8761**	**15.8203**	**0.0281**		**0.1874**	**0.1874**		**0.1874**	**0.1874**		**2,656.5168**	**2,656.5168**	**0.1022**		**2,659.0727**

3.6 Paving - 2039

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0297	0.0124	0.1862	1.0100e-003	0.1677	5.3000e-004	0.1682	0.0445	4.9000e-004	0.0450		100.5764	100.5764	1.0300e-003		100.6021
Total	**0.0297**	**0.0124**	**0.1862**	**1.0100e-003**	**0.1677**	**5.3000e-004**	**0.1682**	**0.0445**	**4.9000e-004**	**0.0450**		**100.5764**	**100.5764**	**1.0300e-003**		**100.6021**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2805	1.2154	17.2957	0.0281		0.0374	0.0374		0.0374	0.0374	0.0000	2,656.5168	2,656.5168	0.1022		2,659.0726
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.2805**	**1.2154**	**17.2957**	**0.0281**		**0.0374**	**0.0374**		**0.0374**	**0.0374**	**0.0000**	**2,656.5168**	**2,656.5168**	**0.1022**		**2,659.0726**

3.6 Paving - 2039

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0297	0.0124	0.1862	1.0100e-003	0.1677	5.3000e-004	0.1682	0.0445	4.9000e-004	0.0450		100.5764	100.5764	1.0300e-003		100.6021
Total	**0.0297**	**0.0124**	**0.1862**	**1.0100e-003**	**0.1677**	**5.3000e-004**	**0.1682**	**0.0445**	**4.9000e-004**	**0.0450**		**100.5764**	**100.5764**	**1.0300e-003**		**100.6021**

3.7 Architectural Coating - 2039

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	28.8041					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1179	0.7577	1.7943	2.9700e-003		9.9000e-003	9.9000e-003		9.9000e-003	9.9000e-003		281.4481	281.4481	0.0104		281.7081
Total	**28.9220**	**0.7577**	**1.7943**	**2.9700e-003**		**9.9000e-003**	**9.9000e-003**		**9.9000e-003**	**9.9000e-003**		**281.4481**	**281.4481**	**0.0104**		**281.7081**

3.7 Architectural Coating - 2039

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2455	0.1027	1.5393	8.3200e-003	1.3860	4.3900e-003	1.3904	0.3676	4.0400e-003	0.3716		831.4316	831.4316	8.4900e-003		831.6439
Total	**0.2455**	**0.1027**	**1.5393**	**8.3200e-003**	**1.3860**	**4.3900e-003**	**1.3904**	**0.3676**	**4.0400e-003**	**0.3716**		**831.4316**	**831.4316**	**8.4900e-003**		**831.6439**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	28.8041					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0104		281.7081
Total	**28.8339**	**0.1288**	**1.8324**	**2.9700e-003**		**3.9600e-003**	**3.9600e-003**		**3.9600e-003**	**3.9600e-003**	**0.0000**	**281.4481**	**281.4481**	**0.0104**		**281.7081**

3.7 Architectural Coating - 2039

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2455	0.1027	1.5393	8.3200e-003	1.3860	4.3900e-003	1.3904	0.3676	4.0400e-003	0.3716		831.4316	831.4316	8.4900e-003		831.6439
Total	**0.2455**	**0.1027**	**1.5393**	**8.3200e-003**	**1.3860**	**4.3900e-003**	**1.3904**	**0.3676**	**4.0400e-003**	**0.3716**		**831.4316**	**831.4316**	**8.4900e-003**		**831.6439**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	9.3969	42.6638	118.8455	0.6049	76.3044	0.3017	76.6061	20.4056	0.2800	20.6856		62,101.4962	62,101.4962	2.3320		62,159.7968
Unmitigated	9.3969	42.6638	118.8455	0.6049	76.3044	0.3017	76.6061	20.4056	0.2800	20.6856		62,101.4962	62,101.4962	2.3320		62,159.7968

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Enclosed Parking with Elevator	0.00	0.00	0.00		
University/College (4Yr)	11,970.00	9,100.00	0.00	29,588,293	29,588,293
Total	11,970.00	9,100.00	0.00	29,588,293	29,588,293

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
University/College (4Yr)	16.60	8.40	6.90	6.40	88.60	5.00	91	9	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Enclosed Parking with Elevator	0.570257	0.042258	0.208917	0.102527	0.012284	0.005810	0.027501	0.020703	0.001922	0.001419	0.005012	0.000641	0.000749
University/College (4Yr)	0.570257	0.042258	0.208917	0.102527	0.012284	0.005810	0.027501	0.020703	0.001922	0.001419	0.005012	0.000641	0.000749

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.2868	2.6076	2.1904	0.0157		0.1982	0.1982		0.1982	0.1982		3,129.1038	3,129.1038	0.0600	0.0574	3,147.6985
NaturalGas Unmitigated	0.2868	2.6076	2.1904	0.0157		0.1982	0.1982		0.1982	0.1982		3,129.1038	3,129.1038	0.0600	0.0574	3,147.6985

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
University/College (4Yr)	26597.4	0.2868	2.6076	2.1904	0.0157		0.1982	0.1982		0.1982	0.1982		3,129.1038	3,129.1038	0.0600	0.0574	3,147.6985
Total		**0.2868**	**2.6076**	**2.1904**	**0.0157**		**0.1982**	**0.1982**		**0.1982**	**0.1982**		**3,129.1038**	**3,129.1038**	**0.0600**	**0.0574**	**3,147.6985**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
University/College (4Yr)	26.5974	0.2868	2.6076	2.1904	0.0157		0.1982	0.1982		0.1982	0.1982		3,129.1038	3,129.1038	0.0600	0.0574	3,147.6985
Total		**0.2868**	**2.6076**	**2.1904**	**0.0157**		**0.1982**	**0.1982**		**0.1982**	**0.1982**		**3,129.1038**	**3,129.1038**	**0.0600**	**0.0574**	**3,147.6985**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	14.5809	7.1500e-003	0.7958	6.0000e-005		2.8200e-003	2.8200e-003		2.8200e-003	2.8200e-003		1.7155	1.7155	4.4200e-003		1.8260
Unmitigated	14.5809	7.1500e-003	0.7958	6.0000e-005		2.8200e-003	2.8200e-003		2.8200e-003	2.8200e-003		1.7155	1.7155	4.4200e-003		1.8260

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.6722					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	12.8358					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0728	7.1500e-003	0.7958	6.0000e-005		2.8200e-003	2.8200e-003		2.8200e-003	2.8200e-003		1.7155	1.7155	4.4200e-003		1.8260
Total	**14.5809**	**7.1500e-003**	**0.7958**	**6.0000e-005**		**2.8200e-003**	**2.8200e-003**		**2.8200e-003**	**2.8200e-003**		**1.7155**	**1.7155**	**4.4200e-003**		**1.8260**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.6722					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	12.8358					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0728	7.1500e-003	0.7958	6.0000e-005		2.8200e-003	2.8200e-003		2.8200e-003	2.8200e-003		1.7155	1.7155	4.4200e-003		1.8260
Total	**14.5809**	**7.1500e-003**	**0.7958**	**6.0000e-005**		**2.8200e-003**	**2.8200e-003**		**2.8200e-003**	**2.8200e-003**		**1.7155**	**1.7155**	**4.4200e-003**		**1.8260**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

CSUF MPU - Operational Buildout

Orange County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
University/College (4Yr)	7,000.00	Student	29.54	1,861,488.00	0
Enclosed Parking with Elevator	1,677.40	1000sqft	38.51	1,677,400.00	0
Arena	254.10	1000sqft	81.67	254,100.00	0
Apartments Mid Rise	350.00	Dwelling Unit	9.21	539,000.00	1001
Apartments Mid Rise	2,400.00	Dwelling Unit	63.16	803,880.00	2400
Regional Shopping Center	40.00	1000sqft	0.92	40,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	30
Climate Zone	8			**Operational Year**	2035
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	119.32	**CH4 Intensity (lb/MWhr)**	0.005	**N2O Intensity (lb/MWhr)**	0.001

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CalEEMod operational years jump from 2035 to 2040, therefore earlier (more conservative) year of 2035 used for project buildout of 2039; energy intensity reduced per SB 100

Land Use - Arena used for event center; innovation center, campus amenities, academic space, and arboretum uses included as educational

Construction Phase - Operational run

Off-road Equipment -
Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Trips and VMT -

Demolition - Operational run

Grading - Operational run

Architectural Coating - 50 g/L in compliance with SCAQMD Rule 1113

Vehicle Trips - Trips adjusted for VMT per Fehr&Peers TIA (2019); 8,000 service population with 14.38 VMT per day on weekdays, reduced proportionally on weekends per CalEEMod proportions per land use

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Woodstoves - No fireplaces/woodstoves assumed

Consumer Products -

Area Coating - 50 g/L in compliance with SCAQMD Rule 1113

Energy Use -

Water And Wastewater - No septic systems

Solid Waste -

Construction Off-road Equipment Mitigation - Operational Run

Mobile Commute Mitigation -

Area Mitigation - 50 g/L in compliance with SCAQMD Rule 1113

Energy Mitigation -

Water Mitigation -

Fleet Mix -

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Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	50
tblAreaCoating	Area_EF_Nonresidential_Interior	100	50
tblConstructionPhase	NumDays	4,650.00	3,300.00
tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	2,337.50	0.00
tblFireplaces	NumberNoFireplace	275.00	2,750.00
tblFireplaces	NumberWood	137.50	0.00
tblLandUse	LandUseSquareFeet	1,286,582.28	1,861,488.00
tblLandUse	LandUseSquareFeet	2,400,000.00	803,880.00
tblLandUse	LandUseSquareFeet	350,000.00	539,000.00
tblLandUse	Population	6,864.00	2,400.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.005
tblProjectCharacteristics	CO2IntensityFactor	702.44	119.32
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.001
tblVehicleTrips	ST_TR	6.39	1.50
tblVehicleTrips	ST_TR	1.30	0.31
tblVehicleTrips	SU_TR	5.86	1.37
tblVehicleTrips	WD_TR	6.65	1.57
tblVehicleTrips	WD_TR	1.71	0.41
tblWater	AerobicPercent	87.46	97.79
tblWater	AerobicPercent	87.46	97.79
tblWater	AerobicPercent	87.46	97.79

tblWater	AerobicPercent	87.46	97.79
tblWater	AerobicPercent	87.46	97.79
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWoodstoves	NumberCatalytic	137.50	0.00
tblWoodstoves	NumberNoncatalytic	137.50	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.4202	4.1078	2.8705	5.2600e-003	0.0215	0.2026	0.2241	5.7100e-003	0.1882	0.1939	0.0000	461.6642	461.6642	0.1253	0.0000	464.7960
2022	0.4191	4.2805	2.8319	5.6800e-003	2.3913	0.2030	2.5944	1.0350	0.1870	1.2220	0.0000	499.5445	499.5445	0.1525	0.0000	503.3576
2023	0.4404	4.4923	3.7115	8.3200e-003	1.4278	0.1854	1.6132	0.5045	0.1705	0.6750	0.0000	731.0398	731.0398	0.2297	0.0000	736.7825
2024	0.9760	6.6568	8.2369	0.0328	3.3416	0.1554	3.4970	0.9371	0.1437	1.0808	0.0000	3,045.9183	3,045.9183	0.2754	0.0000	3,052.8038

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2025	1.7999	10.3460	15.0090	0.0716	5.8948	0.1100	6.0048	1.5827	0.1030	1.6857	0.0000	6,714.7549	6,714.7549	0.3386	0.0000	6,723.2206
2026	1.7396	10.1797	14.3634	0.0700	5.8948	0.1089	6.0037	1.5827	0.1019	1.6847	0.0000	6,566.0620	6,566.0620	0.3307	0.0000	6,574.3304
2027	1.6806	10.0249	13.7993	0.0685	5.8948	0.1070	6.0018	1.5827	0.1002	1.6829	0.0000	6,435.7945	6,435.7945	0.3236	0.0000	6,443.8847
2028	1.6132	9.8542	13.2562	0.0670	5.8722	0.1042	5.9764	1.5767	0.0976	1.6743	0.0000	6,298.3776	6,298.3776	0.3161	0.0000	6,306.2787
2029	1.5522	9.7684	12.8401	0.0661	5.8948	0.1025	5.9973	1.5827	0.0960	1.6787	0.0000	6,223.3597	6,223.3597	0.3115	0.0000	6,231.1479
2030	1.4748	9.0609	12.4178	0.0657	5.8948	0.0510	5.9458	1.5828	0.0488	1.6315	0.0000	6,176.6504	6,176.6504	0.2489	0.0000	6,182.8719
2031	1.3974	8.9370	12.0119	0.0648	5.8948	0.0492	5.9441	1.5828	0.0471	1.6299	0.0000	6,094.3087	6,094.3087	0.2441	0.0000	6,100.4115
2032	1.3343	8.8734	11.6939	0.0643	5.9174	0.0479	5.9653	1.5888	0.0459	1.6347	0.0000	6,052.4477	6,052.4477	0.2410	0.0000	6,058.4724
2033	1.2661	8.7180	11.2932	0.0632	5.8722	0.0461	5.9184	1.5767	0.0443	1.6209	0.0000	5,950.5334	5,950.5334	0.2357	0.0000	5,956.4248
2034	1.2165	8.6393	10.9950	0.0626	5.8722	0.0448	5.9171	1.5767	0.0431	1.6197	0.0000	5,902.7457	5,902.7457	0.2325	0.0000	5,908.5573
2035	1.1672	8.5073	10.7778	0.0624	5.8948	0.0363	5.9311	1.5828	0.0346	1.6174	0.0000	5,885.0819	5,885.0819	0.2296	0.0000	5,890.8221
2036	1.1717	8.5399	10.8191	0.0627	5.9174	0.0364	5.9538	1.5888	0.0347	1.6236	0.0000	5,907.6302	5,907.6302	0.2305	0.0000	5,913.3923
2037	0.4284	2.7787	4.4530	0.0198	1.6192	0.0277	1.6469	0.4347	0.0273	0.4620	0.0000	1,838.6688	1,838.6688	0.0714	0.0000	1,840.4528
2038	3.6222	0.4250	1.7833	5.1700e-003	0.4877	0.0153	0.5030	0.1295	0.0152	0.1447	0.0000	458.5316	458.5316	9.8700e-003	0.0000	458.7784
2039	6.1155	0.1430	1.1443	5.4200e-003	0.8225	3.6900e-003	0.8262	0.2184	3.4800e-003	0.2219	0.0000	489.4232	489.4232	5.7200e-003	0.0000	489.5663
Maximum	**6.1155**	**10.3460**	**15.0090**	**0.0716**	**5.9174**	**0.2030**	**6.0048**	**1.5888**	**0.1882**	**1.6857**	**0.0000**	**6,714.7549**	**6,714.7549**	**0.3386**	**0.0000**	**6,723.2206**

2.1 Overall Construction

Mitigated Construction

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.4202	4.1078	2.8705	5.2600e-003	0.0215	0.2026	0.2241	5.7100e-003	0.1882	0.1939	0.0000	461.6637	461.6637	0.1253	0.0000	464.7955
2022	0.4191	4.2805	2.8319	5.6800e-003	2.3913	0.2030	2.5944	1.0350	0.1870	1.2220	0.0000	499.5439	499.5439	0.1525	0.0000	503.3570
2023	0.4404	4.4923	3.7115	8.3200e-003	1.4278	0.1854	1.6132	0.5045	0.1705	0.6750	0.0000	731.0389	731.0389	0.2297	0.0000	736.7817
2024	0.9760	6.6568	8.2369	0.0328	3.3416	0.1554	3.4970	0.9371	0.1437	1.0808	0.0000	3,045.9176	3,045.9176	0.2754	0.0000	3,052.8031
2025	1.7999	10.3460	15.0090	0.0716	5.8948	0.1100	6.0048	1.5827	0.1030	1.6857	0.0000	6,714.7545	6,714.7545	0.3386	0.0000	6,723.2202
2026	1.7396	10.1797	14.3634	0.0700	5.8948	0.1089	6.0037	1.5827	0.1019	1.6847	0.0000	6,566.0616	6,566.0616	0.3307	0.0000	6,574.3300
2027	1.6806	10.0249	13.7993	0.0685	5.8948	0.1070	6.0018	1.5827	0.1002	1.6829	0.0000	6,435.7941	6,435.7941	0.3236	0.0000	6,443.8843
2028	1.6132	9.8542	13.2562	0.0670	5.8722	0.1042	5.9764	1.5767	0.0976	1.6743	0.0000	6,298.3772	6,298.3772	0.3161	0.0000	6,306.2784
2029	1.5522	9.7684	12.8401	0.0661	5.8948	0.1025	5.9973	1.5827	0.0960	1.6787	0.0000	6,223.3593	6,223.3593	0.3115	0.0000	6,231.1475
2030	1.4748	9.0609	12.4178	0.0657	5.8948	0.0510	5.9458	1.5828	0.0488	1.6315	0.0000	6,176.6500	6,176.6500	0.2489	0.0000	6,182.8714
2031	1.3974	8.9370	12.0119	0.0648	5.8948	0.0492	5.9441	1.5828	0.0471	1.6299	0.0000	6,094.3083	6,094.3083	0.2441	0.0000	6,100.4111
2032	1.3343	8.8734	11.6939	0.0643	5.9174	0.0479	5.9653	1.5888	0.0459	1.6347	0.0000	6,052.4473	6,052.4473	0.2410	0.0000	6,058.4720
2033	1.2661	8.7180	11.2932	0.0632	5.8722	0.0461	5.9184	1.5767	0.0443	1.6209	0.0000	5,950.5330	5,950.5330	0.2357	0.0000	5,956.4244
2034	1.2165	8.6393	10.9950	0.0626	5.8722	0.0448	5.9170	1.5767	0.0431	1.6197	0.0000	5,902.7453	5,902.7453	0.2325	0.0000	5,908.5569
2035	1.1672	8.5073	10.7778	0.0624	5.8948	0.0363	5.9311	1.5828	0.0346	1.6174	0.0000	5,885.0815	5,885.0815	0.2296	0.0000	5,890.8217
2036	1.1717	8.5399	10.8191	0.0627	5.9174	0.0364	5.9538	1.5888	0.0347	1.6236	0.0000	5,907.6297	5,907.6297	0.2305	0.0000	5,913.3919
2037	0.4284	2.7787	4.4530	0.0198	1.6192	0.0277	1.6469	0.4347	0.0273	0.4620	0.0000	1,838.6684	1,838.6684	0.0714	0.0000	1,840.4524

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2038	3.6222	0.4250	1.7833	5.1700e-003	0.4877	0.0153	0.5030	0.1295	0.0152	0.1447	0.0000	458.5314	458.5314	9.8700e-003	0.0000	458.7782
2039	6.1155	0.1430	1.1443	5.4200e-003	0.8225	3.6900e-003	0.8262	0.2184	3.4800e-003	0.2219	0.0000	489.4232	489.4232	5.7200e-003	0.0000	489.5662
Maximum	**6.1155**	**10.3460**	**15.0090**	**0.0716**	**5.9174**	**0.2030**	**6.0048**	**1.5888**	**0.1882**	**1.6857**	**0.0000**	**6,714.7545**	**6,714.7545**	**0.3386**	**0.0000**	**6,723.2202**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**1-1-2021**	**3-31-2021**	1.1155	1.1155
2	**4-1-2021**	**6-30-2021**	1.1275	1.1275
3	**7-1-2021**	**9-30-2021**	1.1399	1.1399
4	**10-1-2021**	**12-31-2021**	1.1402	1.1402
5	**1-1-2022**	**3-31-2022**	1.0134	1.0134
6	**4-1-2022**	**6-30-2022**	1.1814	1.1814
7	**7-1-2022**	**9-30-2022**	1.1944	1.1944
8	**10-1-2022**	**12-31-2022**	1.3237	1.3237
9	**1-1-2023**	**3-31-2023**	1.2198	1.2198
10	**4-1-2023**	**6-30-2023**	1.2330	1.2330
11	**7-1-2023**	**9-30-2023**	1.2465	1.2465
12	**10-1-2023**	**12-31-2023**	1.2469	1.2469
13	**1-1-2024**	**3-31-2024**	1.1603	1.1603
14	**4-1-2024**	**6-30-2024**	1.1599	1.1599
15	**7-1-2024**	**9-30-2024**	2.1386	2.1386

16	**10-1-2024**	**12-31-2024**	3.1664	3.1664
17	**1-1-2025**	**3-31-2025**	3.0022	3.0022
18	**4-1-2025**	**6-30-2025**	2.9769	2.9769
19	**7-1-2025**	**9-30-2025**	3.0096	3.0096
20	**10-1-2025**	**12-31-2025**	3.0689	3.0689
21	**1-1-2026**	**3-31-2026**	2.9465	2.9465
22	**4-1-2026**	**6-30-2026**	2.9227	2.9227
23	**7-1-2026**	**9-30-2026**	2.9548	2.9548
24	**10-1-2026**	**12-31-2026**	3.0120	3.0120
25	**1-1-2027**	**3-31-2027**	2.8937	2.8937
26	**4-1-2027**	**6-30-2027**	2.8716	2.8716
27	**7-1-2027**	**9-30-2027**	2.9031	2.9031
28	**10-1-2027**	**12-31-2027**	2.9580	2.9580
29	**1-1-2028**	**3-31-2028**	2.8771	2.8771
30	**4-1-2028**	**6-30-2028**	2.8251	2.8251
31	**7-1-2028**	**9-30-2028**	2.8562	2.8562
32	**10-1-2028**	**12-31-2028**	2.9087	2.9087
33	**1-1-2029**	**3-31-2029**	2.7976	2.7976
34	**4-1-2029**	**6-30-2029**	2.7794	2.7794
35	**7-1-2029**	**9-30-2029**	2.8100	2.8100
36	**10-1-2029**	**12-31-2029**	2.8598	2.8598
37	**1-1-2030**	**3-31-2030**	2.6032	2.6032
38	**4-1-2030**	**6-30-2030**	2.5858	2.5858
39	**7-1-2030**	**9-30-2030**	2.6142	2.6142
40	**10-1-2030**	**12-31-2030**	2.6611	2.6611
41	**1-1-2031**	**3-31-2031**	2.5522	2.5522
42	**4-1-2031**	**6-30-2031**	2.5378	2.5378

43	**7-1-2031**	**9-30-2031**	2.5657	2.5657
44	**10-1-2031**	**12-31-2031**	2.6089	2.6089
45	**1-1-2032**	**3-31-2032**	2.5380	2.5380
46	**4-1-2032**	**6-30-2032**	2.4982	2.4982
47	**7-1-2032**	**9-30-2032**	2.5257	2.5257
48	**10-1-2032**	**12-31-2032**	2.5659	2.5659
49	**1-1-2033**	**3-31-2033**	2.4730	2.4730
50	**4-1-2033**	**6-30-2033**	2.4632	2.4632
51	**7-1-2033**	**9-30-2033**	2.4903	2.4903
52	**10-1-2033**	**12-31-2033**	2.5279	2.5279
53	**1-1-2034**	**3-31-2034**	2.4402	2.4402
54	**4-1-2034**	**6-30-2034**	2.4323	2.4323
55	**7-1-2034**	**9-30-2034**	2.4591	2.4591
56	**10-1-2034**	**12-31-2034**	2.4944	2.4944
57	**1-1-2035**	**3-31-2035**	2.3854	2.3854
58	**4-1-2035**	**6-30-2035**	2.3787	2.3787
59	**7-1-2035**	**9-30-2035**	2.4049	2.4049
60	**10-1-2035**	**12-31-2035**	2.4384	2.4384
61	**1-1-2036**	**3-31-2036**	2.4119	2.4119
62	**4-1-2036**	**6-30-2036**	2.3787	2.3787
63	**7-1-2036**	**9-30-2036**	2.4049	2.4049
64	**10-1-2036**	**12-31-2036**	2.4384	2.4384
65	**1-1-2037**	**3-31-2037**	2.3854	2.3854
66	**4-1-2037**	**6-30-2037**	0.4125	0.4125
67	**7-1-2037**	**9-30-2037**	0.1989	0.1989
68	**10-1-2037**	**12-31-2037**	0.1991	0.1991
69	**1-1-2038**	**3-31-2038**	0.1947	0.1947

70	**4-1-2038**	**6-30-2038**	0.1967	0.1967
71	**7-1-2038**	**9-30-2038**	1.6765	1.6765
72	**10-1-2038**	**12-31-2038**	1.9728	1.9728
73	**1-1-2039**	**3-31-2039**	1.9299	1.9299
74	**4-1-2039**	**6-30-2039**	1.9430	1.9430
75	**7-1-2039**	**9-30-2039**	1.9644	1.9644
		Highest	3.1664	3.1664

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	14.5485	0.3271	28.3740	1.5100e-003		0.1577	0.1577		0.1577	0.1577	0.0000	46.5479	46.5479	0.0447	0.0000	47.6647
Energy	0.3524	3.1111	2.0132	0.0192		0.2435	0.2435		0.2435	0.2435	0.0000	5,996.3714	5,996.3714	0.1720	0.0850	6,025.9900
Mobile	1.4759	7.0277	19.0331	0.0961	11.7332	0.0475	11.7806	3.1423	0.0441	3.1864	0.0000	8,952.4583	8,952.4583	0.3322	0.0000	8,960.7623
Waste						0.0000	0.0000		0.0000	0.0000	526.0491	0.0000	526.0491	31.0886	0.0000	1,303.2643
Water						0.0000	0.0000		0.0000	0.0000	108.4695	303.3689	411.8384	2.8483	0.2384	554.0964
Total	**16.3768**	**10.4659**	**49.4203**	**0.1168**	**11.7332**	**0.4486**	**12.1818**	**3.1423**	**0.4452**	**3.5875**	**634.5186**	**15,298.7465**	**15,933.2651**	**34.4857**	**0.3234**	**16,891.7776**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	14.5485	0.3271	28.3740	1.5100e-003		0.1577	0.1577		0.1577	0.1577	0.0000	46.5479	46.5479	0.0447	0.0000	47.6647
Energy	0.3378	2.9817	1.9262	0.0184		0.2334	0.2334		0.2334	0.2334	0.0000	5,787.8185	5,787.8185	0.1665	0.0818	5,816.3512
Mobile	1.4759	7.0277	19.0331	0.0961	11.7332	0.0475	11.7806	3.1423	0.0441	3.1864	0.0000	8,952.4583	8,952.4583	0.3322	0.0000	8,960.7623
Waste						0.0000	0.0000		0.0000	0.0000	526.0491	0.0000	526.0491	31.0886	0.0000	1,303.2643
Water						0.0000	0.0000		0.0000	0.0000	86.7756	260.1572	346.9328	2.2793	0.1909	460.8011
Total	**16.3622**	**10.3365**	**49.3333**	**0.1160**	**11.7332**	**0.4385**	**12.1717**	**3.1423**	**0.4351**	**3.5775**	**612.8247**	**15,046.9820**	**15,659.8066**	**33.9113**	**0.2727**	**16,588.8435**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.09**	**1.24**	**0.18**	**0.68**	**0.00**	**2.25**	**0.08**	**0.00**	**2.27**	**0.28**	**3.42**	**1.65**	**1.72**	**1.67**	**15.68**	**1.79**

3.0 Construction Detail

Construction Phase

CSUF MPU - Operational Buildout - Orange County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2021	2/24/2022	5	300	
2	Site Preparation	Site Preparation	2/25/2022	11/3/2022	5	180	
3	Grading	Grading	11/4/2022	8/15/2024	5	465	
4	Building Construction	Building Construction	8/16/2024	4/9/2037	5	3300	
5	Paving	Paving	4/10/2037	7/15/2038	5	330	
6	Architectural Coating	Architectural Coating	7/16/2038	10/20/2039	5	330	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 1162.5

Acres of Paving: 38.51

Residential Indoor: 2,719,332; Residential Outdoor: 906,444; Non-Residential Indoor: 3,233,382; Non-Residential Outdoor: 1,077,794; Striped Parking Area: 100,644 (Architectural Coating – sqft)

OffRoad Equipment

CSUF MPU - Operational Buildout - Orange County, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	3,586.00	922.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	717.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.4131	4.1030	2.8142	5.0700e-003		0.2025	0.2025		0.1881	0.1881	0.0000	443.7102	443.7102	0.1249	0.0000	446.8324
Total	**0.4131**	**4.1030**	**2.8142**	**5.0700e-003**	**0.0000**	**0.2025**	**0.2025**	**0.0000**	**0.1881**	**0.1881**	**0.0000**	**443.7102**	**443.7102**	**0.1249**	**0.0000**	**446.8324**

3.2 Demolition - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.1700e-003	4.8200e-003	0.0562	2.0000e-004	0.0215	1.4000e-004	0.0216	5.7100e-003	1.3000e-004	5.8400e-003	0.0000	17.9540	17.9540	3.8000e-004	0.0000	17.9636
Total	**7.1700e-003**	**4.8200e-003**	**0.0562**	**2.0000e-004**	**0.0215**	**1.4000e-004**	**0.0216**	**5.7100e-003**	**1.3000e-004**	**5.8400e-003**	**0.0000**	**17.9540**	**17.9540**	**3.8000e-004**	**0.0000**	**17.9636**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.4131	4.1030	2.8142	5.0700e-003		0.2025	0.2025		0.1881	0.1881	0.0000	443.7097	443.7097	0.1249	0.0000	446.8319
Total	**0.4131**	**4.1030**	**2.8142**	**5.0700e-003**	**0.0000**	**0.2025**	**0.2025**	**0.0000**	**0.1881**	**0.1881**	**0.0000**	**443.7097**	**443.7097**	**0.1249**	**0.0000**	**446.8319**

3.2 Demolition - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.1700e-003	4.8200e-003	0.0562	2.0000e-004	0.0215	1.4000e-004	0.0216	5.7100e-003	1.3000e-004	5.8400e-003	0.0000	17.9540	17.9540	3.8000e-004	0.0000	17.9636
Total	**7.1700e-003**	**4.8200e-003**	**0.0562**	**2.0000e-004**	**0.0215**	**1.4000e-004**	**0.0216**	**5.7100e-003**	**1.3000e-004**	**5.8400e-003**	**0.0000**	**17.9540**	**17.9540**	**3.8000e-004**	**0.0000**	**17.9636**

3.2 Demolition - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0515	0.5015	0.4016	7.6000e-004		0.0242	0.0242		0.0225	0.0225	0.0000	66.2809	66.2809	0.0186	0.0000	66.7464
Total	**0.0515**	**0.5015**	**0.4016**	**7.6000e-004**	**0.0000**	**0.0242**	**0.0242**	**0.0000**	**0.0225**	**0.0225**	**0.0000**	**66.2809**	**66.2809**	**0.0186**	**0.0000**	**66.7464**

3.2 Demolition - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0100e-003	6.5000e-004	7.8300e-003	3.0000e-005	3.2100e-003	2.0000e-005	3.2300e-003	8.5000e-004	2.0000e-005	8.7000e-004	0.0000	2.5835	2.5835	5.0000e-005	0.0000	2.5848
Total	**1.0100e-003**	**6.5000e-004**	**7.8300e-003**	**3.0000e-005**	**3.2100e-003**	**2.0000e-005**	**3.2300e-003**	**8.5000e-004**	**2.0000e-005**	**8.7000e-004**	**0.0000**	**2.5835**	**2.5835**	**5.0000e-005**	**0.0000**	**2.5848**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0515	0.5015	0.4016	7.6000e-004		0.0242	0.0242		0.0225	0.0225	0.0000	66.2809	66.2809	0.0186	0.0000	66.7463
Total	**0.0515**	**0.5015**	**0.4016**	**7.6000e-004**	**0.0000**	**0.0242**	**0.0242**	**0.0000**	**0.0225**	**0.0225**	**0.0000**	**66.2809**	**66.2809**	**0.0186**	**0.0000**	**66.7463**

3.2 Demolition - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0100e-003	6.5000e-004	7.8300e-003	3.0000e-005	3.2100e-003	2.0000e-005	3.2300e-003	8.5000e-004	2.0000e-005	8.7000e-004	0.0000	2.5835	2.5835	5.0000e-005	0.0000	2.5848
Total	**1.0100e-003**	**6.5000e-004**	**7.8300e-003**	**3.0000e-005**	**3.2100e-003**	**2.0000e-005**	**3.2300e-003**	**8.5000e-004**	**2.0000e-005**	**8.7000e-004**	**0.0000**	**2.5835**	**2.5835**	**5.0000e-005**	**0.0000**	**2.5848**

3.3 Site Preparation - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.6260	0.0000	1.6260	0.8938	0.0000	0.8938	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2853	2.9775	1.7728	3.4200e-003		0.1451	0.1451		0.1335	0.1335	0.0000	300.9545	300.9545	0.0973	0.0000	303.3879
Total	**0.2853**	**2.9775**	**1.7728**	**3.4200e-003**	**1.6260**	**0.1451**	**1.7711**	**0.8938**	**0.1335**	**1.0273**	**0.0000**	**300.9545**	**300.9545**	**0.0973**	**0.0000**	**303.3879**

3.3 Site Preparation - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.6200e-003	3.6200e-003	0.0434	1.6000e-004	0.0178	1.1000e-004	0.0179	4.7200e-003	1.1000e-004	4.8300e-003	0.0000	14.3084	14.3084	2.9000e-004	0.0000	14.3156
Total	**5.6200e-003**	**3.6200e-003**	**0.0434**	**1.6000e-004**	**0.0178**	**1.1000e-004**	**0.0179**	**4.7200e-003**	**1.1000e-004**	**4.8300e-003**	**0.0000**	**14.3084**	**14.3084**	**2.9000e-004**	**0.0000**	**14.3156**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.6260	0.0000	1.6260	0.8938	0.0000	0.8938	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2853	2.9775	1.7728	3.4200e-003		0.1451	0.1451		0.1335	0.1335	0.0000	300.9542	300.9542	0.0973	0.0000	303.3875
Total	**0.2853**	**2.9775**	**1.7728**	**3.4200e-003**	**1.6260**	**0.1451**	**1.7711**	**0.8938**	**0.1335**	**1.0273**	**0.0000**	**300.9542**	**300.9542**	**0.0973**	**0.0000**	**303.3875**

3.3 Site Preparation - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.6200e-003	3.6200e-003	0.0434	1.6000e-004	0.0178	1.1000e-004	0.0179	4.7200e-003	1.1000e-004	4.8300e-003	0.0000	14.3084	14.3084	2.9000e-004	0.0000	14.3156
Total	**5.6200e-003**	**3.6200e-003**	**0.0434**	**1.6000e-004**	**0.0178**	**1.1000e-004**	**0.0179**	**4.7200e-003**	**1.1000e-004**	**4.8300e-003**	**0.0000**	**14.3084**	**14.3084**	**2.9000e-004**	**0.0000**	**14.3156**

3.4 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.7399	0.0000	0.7399	0.1344	0.0000	0.1344	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0743	0.7963	0.5954	1.2700e-003		0.0335	0.0335		0.0308	0.0308	0.0000	111.7959	111.7959	0.0362	0.0000	112.6999
Total	**0.0743**	**0.7963**	**0.5954**	**1.2700e-003**	**0.7399**	**0.0335**	**0.7734**	**0.1344**	**0.0308**	**0.1653**	**0.0000**	**111.7959**	**111.7959**	**0.0362**	**0.0000**	**112.6999**

3.4 Grading - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4200e-003	9.1000e-004	0.0110	4.0000e-005	4.5000e-003	3.0000e-005	4.5300e-003	1.2000e-003	3.0000e-005	1.2200e-003	0.0000	3.6213	3.6213	7.0000e-005	0.0000	3.6231
Total	**1.4200e-003**	**9.1000e-004**	**0.0110**	**4.0000e-005**	**4.5000e-003**	**3.0000e-005**	**4.5300e-003**	**1.2000e-003**	**3.0000e-005**	**1.2200e-003**	**0.0000**	**3.6213**	**3.6213**	**7.0000e-005**	**0.0000**	**3.6231**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.7399	0.0000	0.7399	0.1344	0.0000	0.1344	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0743	0.7963	0.5954	1.2700e-003		0.0335	0.0335		0.0308	0.0308	0.0000	111.7958	111.7958	0.0362	0.0000	112.6997
Total	**0.0743**	**0.7963**	**0.5954**	**1.2700e-003**	**0.7399**	**0.0335**	**0.7734**	**0.1344**	**0.0308**	**0.1653**	**0.0000**	**111.7958**	**111.7958**	**0.0362**	**0.0000**	**112.6997**

3.4 Grading - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4200e-003	9.1000e-004	0.0110	4.0000e-005	4.5000e-003	3.0000e-005	4.5300e-003	1.2000e-003	3.0000e-005	1.2200e-003	0.0000	3.6213	3.6213	7.0000e-005	0.0000	3.6231
Total	**1.4200e-003**	**9.1000e-004**	**0.0110**	**4.0000e-005**	**4.5000e-003**	**3.0000e-005**	**4.5300e-003**	**1.2000e-003**	**3.0000e-005**	**1.2200e-003**	**0.0000**	**3.6213**	**3.6213**	**7.0000e-005**	**0.0000**	**3.6231**

3.4 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.3993	0.0000	1.3993	0.4969	0.0000	0.4969	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.4318	4.4870	3.6467	8.0700e-003		0.1852	0.1852		0.1704	0.1704	0.0000	708.9577	708.9577	0.2293	0.0000	714.6900
Total	**0.4318**	**4.4870**	**3.6467**	**8.0700e-003**	**1.3993**	**0.1852**	**1.5845**	**0.4969**	**0.1704**	**0.6673**	**0.0000**	**708.9577**	**708.9577**	**0.2293**	**0.0000**	**714.6900**

3.4 Grading - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.5500e-003	5.2700e-003	0.0649	2.4000e-004	0.0285	1.8000e-004	0.0287	7.5800e-003	1.7000e-004	7.7500e-003	0.0000	22.0820	22.0820	4.2000e-004	0.0000	22.0925
Total	**8.5500e-003**	**5.2700e-003**	**0.0649**	**2.4000e-004**	**0.0285**	**1.8000e-004**	**0.0287**	**7.5800e-003**	**1.7000e-004**	**7.7500e-003**	**0.0000**	**22.0820**	**22.0820**	**4.2000e-004**	**0.0000**	**22.0925**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.3993	0.0000	1.3993	0.4969	0.0000	0.4969	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.4318	4.4870	3.6467	8.0700e-003		0.1852	0.1852		0.1704	0.1704	0.0000	708.9569	708.9569	0.2293	0.0000	714.6891
Total	**0.4318**	**4.4870**	**3.6467**	**8.0700e-003**	**1.3993**	**0.1852**	**1.5845**	**0.4969**	**0.1704**	**0.6673**	**0.0000**	**708.9569**	**708.9569**	**0.2293**	**0.0000**	**714.6891**

3.4 Grading - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.5500e-003	5.2700e-003	0.0649	2.4000e-004	0.0285	1.8000e-004	0.0287	7.5800e-003	1.7000e-004	7.7500e-003	0.0000	22.0820	22.0820	4.2000e-004	0.0000	22.0925
Total	**8.5500e-003**	**5.2700e-003**	**0.0649**	**2.4000e-004**	**0.0285**	**1.8000e-004**	**0.0287**	**7.5800e-003**	**1.7000e-004**	**7.7500e-003**	**0.0000**	**22.0820**	**22.0820**	**4.2000e-004**	**0.0000**	**22.0925**

3.4 Grading - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.1102	0.0000	1.1102	0.3380	0.0000	0.3380	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2639	2.6549	2.2733	5.0900e-003		0.1095	0.1095		0.1007	0.1007	0.0000	447.0601	447.0601	0.1446	0.0000	450.6748
Total	**0.2639**	**2.6549**	**2.2733**	**5.0900e-003**	**1.1102**	**0.1095**	**1.2197**	**0.3380**	**0.1007**	**0.4387**	**0.0000**	**447.0601**	**447.0601**	**0.1446**	**0.0000**	**450.6748**

3.4 Grading - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.1300e-003	3.0300e-003	0.0381	1.5000e-004	0.0180	1.1000e-004	0.0181	4.7800e-003	1.0000e-004	4.8800e-003	0.0000	13.3768	13.3768	2.4000e-004	0.0000	13.3828
Total	**5.1300e-003**	**3.0300e-003**	**0.0381**	**1.5000e-004**	**0.0180**	**1.1000e-004**	**0.0181**	**4.7800e-003**	**1.0000e-004**	**4.8800e-003**	**0.0000**	**13.3768**	**13.3768**	**2.4000e-004**	**0.0000**	**13.3828**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.1102	0.0000	1.1102	0.3380	0.0000	0.3380	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2639	2.6549	2.2733	5.0900e-003		0.1095	0.1095		0.1007	0.1007	0.0000	447.0596	447.0596	0.1446	0.0000	450.6743
Total	**0.2639**	**2.6549**	**2.2733**	**5.0900e-003**	**1.1102**	**0.1095**	**1.2197**	**0.3380**	**0.1007**	**0.4387**	**0.0000**	**447.0596**	**447.0596**	**0.1446**	**0.0000**	**450.6743**

3.4 Grading - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.1300e-003	3.0300e-003	0.0381	1.5000e-004	0.0180	1.1000e-004	0.0181	4.7800e-003	1.0000e-004	4.8800e-003	0.0000	13.3768	13.3768	2.4000e-004	0.0000	13.3828
Total	**5.1300e-003**	**3.0300e-003**	**0.0381**	**1.5000e-004**	**0.0180**	**1.1000e-004**	**0.0181**	**4.7800e-003**	**1.0000e-004**	**4.8800e-003**	**0.0000**	**13.3768**	**13.3768**	**2.4000e-004**	**0.0000**	**13.3828**

3.5 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0721	0.6587	0.7922	1.3200e-003		0.0301	0.0301		0.0283	0.0283	0.0000	113.6061	113.6061	0.0269	0.0000	114.2777
Total	**0.0721**	**0.6587**	**0.7922**	**1.3200e-003**		**0.0301**	**0.0301**		**0.0283**	**0.0283**	**0.0000**	**113.6061**	**113.6061**	**0.0269**	**0.0000**	**114.2777**

3.5 Building Construction - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0852	3.0159	1.0565	0.0105	0.2844	3.6500e-003	0.2881	0.0820	3.4900e-003	0.0855	0.0000	1,038.6466	1,038.6466	0.0780	0.0000	1,040.5958
Worker	0.5497	0.3242	4.0769	0.0158	1.9290	0.0120	1.9410	0.5123	0.0111	0.5234	0.0000	1,433.2287	1,433.2287	0.0258	0.0000	1,433.8727
Total	**0.6349**	**3.3401**	**5.1334**	**0.0263**	**2.2134**	**0.0157**	**2.2291**	**0.5943**	**0.0146**	**0.6089**	**0.0000**	**2,471.8753**	**2,471.8753**	**0.1037**	**0.0000**	**2,474.4685**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0721	0.6587	0.7922	1.3200e-003		0.0301	0.0301		0.0283	0.0283	0.0000	113.6059	113.6059	0.0269	0.0000	114.2775
Total	**0.0721**	**0.6587**	**0.7922**	**1.3200e-003**		**0.0301**	**0.0301**		**0.0283**	**0.0283**	**0.0000**	**113.6059**	**113.6059**	**0.0269**	**0.0000**	**114.2775**

3.5 Building Construction - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0852	3.0159	1.0565	0.0105	0.2844	3.6500e-003	0.2881	0.0820	3.4900e-003	0.0855	0.0000	1,038.6466	1,038.6466	0.0780	0.0000	1,040.5958
Worker	0.5497	0.3242	4.0769	0.0158	1.9290	0.0120	1.9410	0.5123	0.0111	0.5234	0.0000	1,433.2287	1,433.2287	0.0258	0.0000	1,433.8727
Total	**0.6349**	**3.3401**	**5.1334**	**0.0263**	**2.2134**	**0.0157**	**2.2291**	**0.5943**	**0.0146**	**0.6089**	**0.0000**	**2,471.8753**	**2,471.8753**	**0.1037**	**0.0000**	**2,474.4685**

3.5 Building Construction - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335
Total	**0.1785**	**1.6273**	**2.0991**	**3.5200e-003**		**0.0689**	**0.0689**		**0.0648**	**0.0648**	**0.0000**	**302.6549**	**302.6549**	**0.0711**	**0.0000**	**304.4335**

3.5 Building Construction - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.2210	7.9268	2.7795	0.0276	0.7574	9.5000e-003	0.7669	0.2184	9.0900e-003	0.2275	0.0000	2,749.2431	2,749.2431	0.2048	0.0000	2,754.3622
Worker	1.4004	0.7919	10.1305	0.0405	5.1374	0.0317	5.1691	1.3643	0.0292	1.3935	0.0000	3,662.8569	3,662.8569	0.0627	0.0000	3,664.4249
Total	**1.6214**	**8.7187**	**12.9099**	**0.0681**	**5.8948**	**0.0412**	**5.9360**	**1.5827**	**0.0382**	**1.6210**	**0.0000**	**6,412.1000**	**6,412.1000**	**0.2675**	**0.0000**	**6,418.7871**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1784	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331
Total	**0.1784**	**1.6273**	**2.0991**	**3.5200e-003**		**0.0689**	**0.0689**		**0.0648**	**0.0648**	**0.0000**	**302.6545**	**302.6545**	**0.0711**	**0.0000**	**304.4331**

3.5 Building Construction - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.2210	7.9268	2.7795	0.0276	0.7574	9.5000e-003	0.7669	0.2184	9.0900e-003	0.2275	0.0000	2,749.2431	2,749.2431	0.2048	0.0000	2,754.3622
Worker	1.4004	0.7919	10.1305	0.0405	5.1374	0.0317	5.1691	1.3643	0.0292	1.3935	0.0000	3,662.8569	3,662.8569	0.0627	0.0000	3,664.4249
Total	**1.6214**	**8.7187**	**12.9099**	**0.0681**	**5.8948**	**0.0412**	**5.9360**	**1.5827**	**0.0382**	**1.6210**	**0.0000**	**6,412.1000**	**6,412.1000**	**0.2675**	**0.0000**	**6,418.7871**

3.5 Building Construction - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335
Total	**0.1785**	**1.6273**	**2.0991**	**3.5200e-003**		**0.0689**	**0.0689**		**0.0648**	**0.0648**	**0.0000**	**302.6549**	**302.6549**	**0.0711**	**0.0000**	**304.4335**

3.5 Building Construction - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.2158	7.8213	2.7563	0.0274	0.7574	9.2700e-003	0.7667	0.2184	8.8700e-003	0.2273	0.0000	2,732.9723	2,732.9723	0.2020	0.0000	2,738.0213
Worker	1.3454	0.7311	9.5081	0.0390	5.1374	0.0307	5.1681	1.3643	0.0283	1.3926	0.0000	3,530.4347	3,530.4347	0.0576	0.0000	3,531.8756
Total	**1.5612**	**8.5525**	**12.2644**	**0.0664**	**5.8948**	**0.0400**	**5.9348**	**1.5827**	**0.0372**	**1.6199**	**0.0000**	**6,263.4071**	**6,263.4071**	**0.2596**	**0.0000**	**6,269.8969**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1784	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331
Total	**0.1784**	**1.6273**	**2.0991**	**3.5200e-003**		**0.0689**	**0.0689**		**0.0648**	**0.0648**	**0.0000**	**302.6545**	**302.6545**	**0.0711**	**0.0000**	**304.4331**

3.5 Building Construction - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.2158	7.8213	2.7563	0.0274	0.7574	9.2700e-003	0.7667	0.2184	8.8700e-003	0.2273	0.0000	2,732.9723	2,732.9723	0.2020	0.0000	2,738.0213
Worker	1.3454	0.7311	9.5081	0.0390	5.1374	0.0307	5.1681	1.3643	0.0283	1.3926	0.0000	3,530.4347	3,530.4347	0.0576	0.0000	3,531.8756
Total	**1.5612**	**8.5525**	**12.2644**	**0.0664**	**5.8948**	**0.0400**	**5.9348**	**1.5827**	**0.0372**	**1.6199**	**0.0000**	**6,263.4071**	**6,263.4071**	**0.2596**	**0.0000**	**6,269.8969**

3.5 Building Construction - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335
Total	**0.1785**	**1.6273**	**2.0991**	**3.5200e-003**		**0.0689**	**0.0689**		**0.0648**	**0.0648**	**0.0000**	**302.6549**	**302.6549**	**0.0711**	**0.0000**	**304.4335**

3.5 Building Construction - 2027

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.2114	7.7202	2.7379	0.0273	0.7574	9.0700e-003	0.7665	0.2184	8.6700e-003	0.2271	0.0000	2,717.9671	2,717.9671	0.1993	0.0000	2,722.9502
Worker	1.2908	0.6773	8.9624	0.0377	5.1374	0.0291	5.1665	1.3643	0.0268	1.3911	0.0000	3,415.1725	3,415.1725	0.0531	0.0000	3,416.5010
Total	**1.5022**	**8.3976**	**11.7002**	**0.0650**	**5.8948**	**0.0382**	**5.9330**	**1.5828**	**0.0354**	**1.6182**	**0.0000**	**6,133.1396**	**6,133.1396**	**0.2525**	**0.0000**	**6,139.4511**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1784	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331
Total	**0.1784**	**1.6273**	**2.0991**	**3.5200e-003**		**0.0689**	**0.0689**		**0.0648**	**0.0648**	**0.0000**	**302.6545**	**302.6545**	**0.0711**	**0.0000**	**304.4331**

3.5 Building Construction - 2027

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.2114	7.7202	2.7379	0.0273	0.7574	9.0700e-003	0.7665	0.2184	8.6700e-003	0.2271	0.0000	2,717.9671	2,717.9671	0.1993	0.0000	2,722.9502
Worker	1.2908	0.6773	8.9624	0.0377	5.1374	0.0291	5.1665	1.3643	0.0268	1.3911	0.0000	3,415.1725	3,415.1725	0.0531	0.0000	3,416.5010
Total	**1.5022**	**8.3976**	**11.7002**	**0.0650**	**5.8948**	**0.0382**	**5.9330**	**1.5828**	**0.0354**	**1.6182**	**0.0000**	**6,133.1396**	**6,133.1396**	**0.2525**	**0.0000**	**6,139.4511**

3.5 Building Construction - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1778	1.6211	2.0910	3.5000e-003		0.0686	0.0686		0.0645	0.0645	0.0000	301.4953	301.4953	0.0709	0.0000	303.2671
Total	**0.1778**	**1.6211**	**2.0910**	**3.5000e-003**		**0.0686**	**0.0686**		**0.0645**	**0.0645**	**0.0000**	**301.4953**	**301.4953**	**0.0709**	**0.0000**	**303.2671**

3.5 Building Construction - 2028

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.2068	7.6061	2.7169	0.0270	0.7545	8.8500e-003	0.7634	0.2176	8.4600e-003	0.2261	0.0000	2,694.5851	2,694.5851	0.1962	0.0000	2,699.4892
Worker	1.2286	0.6270	8.4483	0.0365	5.1177	0.0268	5.1445	1.3591	0.0246	1.3837	0.0000	3,302.2971	3,302.2971	0.0490	0.0000	3,303.5224
Total	**1.4354**	**8.2331**	**11.1652**	**0.0635**	**5.8722**	**0.0356**	**5.9078**	**1.5767**	**0.0331**	**1.6098**	**0.0000**	**5,996.8823**	**5,996.8823**	**0.2452**	**0.0000**	**6,003.0116**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1778	1.6211	2.0910	3.5000e-003		0.0686	0.0686		0.0645	0.0645	0.0000	301.4949	301.4949	0.0709	0.0000	303.2667
Total	**0.1778**	**1.6211**	**2.0910**	**3.5000e-003**		**0.0686**	**0.0686**		**0.0645**	**0.0645**	**0.0000**	**301.4949**	**301.4949**	**0.0709**	**0.0000**	**303.2667**

3.5 Building Construction - 2028

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.2068	7.6061	2.7169	0.0270	0.7545	8.8500e-003	0.7634	0.2176	8.4600e-003	0.2261	0.0000	2,694.5851	2,694.5851	0.1962	0.0000	2,699.4892
Worker	1.2286	0.6270	8.4483	0.0365	5.1177	0.0268	5.1445	1.3591	0.0246	1.3837	0.0000	3,302.2971	3,302.2971	0.0490	0.0000	3,303.5224
Total	**1.4354**	**8.2331**	**11.1652**	**0.0635**	**5.8722**	**0.0356**	**5.9078**	**1.5767**	**0.0331**	**1.6098**	**0.0000**	**5,996.8823**	**5,996.8823**	**0.2452**	**0.0000**	**6,003.0116**

3.5 Building Construction - 2029

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335
Total	**0.1785**	**1.6273**	**2.0991**	**3.5200e-003**		**0.0689**	**0.0689**		**0.0648**	**0.0648**	**0.0000**	**302.6549**	**302.6549**	**0.0711**	**0.0000**	**304.4335**

3.5 Building Construction - 2029

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.2043	7.5560	2.7169	0.0270	0.7574	8.7200e-003	0.7661	0.2184	8.3300e-003	0.2268	0.0000	2,693.1799	2,693.1799	0.1949	0.0000	2,698.0519
Worker	1.1695	0.5851	8.0242	0.0356	5.1374	0.0249	5.1623	1.3643	0.0229	1.3872	0.0000	3,227.5249	3,227.5249	0.0455	0.0000	3,228.6625
Total	**1.3737**	**8.1411**	**10.7411**	**0.0626**	**5.8948**	**0.0336**	**5.9284**	**1.5828**	**0.0312**	**1.6140**	**0.0000**	**5,920.7048**	**5,920.7048**	**0.2404**	**0.0000**	**5,926.7144**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1784	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331
Total	**0.1784**	**1.6273**	**2.0991**	**3.5200e-003**		**0.0689**	**0.0689**		**0.0648**	**0.0648**	**0.0000**	**302.6545**	**302.6545**	**0.0711**	**0.0000**	**304.4331**

3.5 Building Construction - 2029

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.2043	7.5560	2.7169	0.0270	0.7574	8.7200e-003	0.7661	0.2184	8.3300e-003	0.2268	0.0000	2,693.1799	2,693.1799	0.1949	0.0000	2,698.0519
Worker	1.1695	0.5851	8.0242	0.0356	5.1374	0.0249	5.1623	1.3643	0.0229	1.3872	0.0000	3,227.5249	3,227.5249	0.0455	0.0000	3,228.6625
Total	**1.3737**	**8.1411**	**10.7411**	**0.0626**	**5.8948**	**0.0336**	**5.9284**	**1.5828**	**0.0312**	**1.6140**	**0.0000**	**5,920.7048**	**5,920.7048**	**0.2404**	**0.0000**	**5,926.7144**

3.5 Building Construction - 2030

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1708	1.0355	2.1085	4.0400e-003		0.0193	0.0193		0.0193	0.0193	0.0000	343.0336	343.0336	0.0138	0.0000	343.3777
Total	**0.1708**	**1.0355**	**2.1085**	**4.0400e-003**		**0.0193**	**0.0193**		**0.0193**	**0.0193**	**0.0000**	**343.0336**	**343.0336**	**0.0138**	**0.0000**	**343.3777**

3.5 Building Construction - 2030

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.2011	7.4814	2.7073	0.0269	0.7574	8.5400e-003	0.7660	0.2184	8.1600e-003	0.2266	0.0000	2,682.5646	2,682.5646	0.1930	0.0000	2,687.3887
Worker	1.1028	0.5441	7.6020	0.0348	5.1374	0.0232	5.1605	1.3643	0.0213	1.3856	0.0000	3,151.0521	3,151.0521	0.0421	0.0000	3,152.1054
Total	**1.3039**	**8.0255**	**10.3093**	**0.0617**	**5.8948**	**0.0317**	**5.9265**	**1.5828**	**0.0295**	**1.6122**	**0.0000**	**5,833.6167**	**5,833.6167**	**0.2351**	**0.0000**	**5,839.4942**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1708	1.0355	2.1085	4.0400e-003		0.0193	0.0193		0.0193	0.0193	0.0000	343.0332	343.0332	0.0138	0.0000	343.3773
Total	**0.1708**	**1.0355**	**2.1085**	**4.0400e-003**		**0.0193**	**0.0193**		**0.0193**	**0.0193**	**0.0000**	**343.0332**	**343.0332**	**0.0138**	**0.0000**	**343.3773**

3.5 Building Construction - 2030

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.2011	7.4814	2.7073	0.0269	0.7574	8.5400e-003	0.7660	0.2184	8.1600e-003	0.2266	0.0000	2,682.5646	2,682.5646	0.1930	0.0000	2,687.3887
Worker	1.1028	0.5441	7.6020	0.0348	5.1374	0.0232	5.1605	1.3643	0.0213	1.3856	0.0000	3,151.0521	3,151.0521	0.0421	0.0000	3,152.1054
Total	**1.3039**	**8.0255**	**10.3093**	**0.0617**	**5.8948**	**0.0317**	**5.9265**	**1.5828**	**0.0295**	**1.6122**	**0.0000**	**5,833.6167**	**5,833.6167**	**0.2351**	**0.0000**	**5,839.4942**

3.5 Building Construction - 2031

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1708	1.0355	2.1085	4.0400e-003		0.0193	0.0193		0.0193	0.0193	0.0000	343.0336	343.0336	0.0138	0.0000	343.3777
Total	**0.1708**	**1.0355**	**2.1085**	**4.0400e-003**		**0.0193**	**0.0193**		**0.0193**	**0.0193**	**0.0000**	**343.0336**	**343.0336**	**0.0138**	**0.0000**	**343.3777**

3.5 Building Construction - 2031

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1986	7.3972	2.7038	0.0268	0.7574	8.4000e-003	0.7658	0.2184	8.0300e-003	0.2265	0.0000	2,674.3236	2,674.3236	0.1916	0.0000	2,679.1123
Worker	1.0280	0.5043	7.1996	0.0340	5.1374	0.0215	5.1589	1.3643	0.0198	1.3841	0.0000	3,076.9515	3,076.9515	0.0388	0.0000	3,077.9215
Total	**1.2266**	**7.9015**	**9.9034**	**0.0607**	**5.8948**	**0.0299**	**5.9247**	**1.5828**	**0.0278**	**1.6106**	**0.0000**	**5,751.2751**	**5,751.2751**	**0.2304**	**0.0000**	**5,757.0338**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1708	1.0355	2.1085	4.0400e-003		0.0193	0.0193		0.0193	0.0193	0.0000	343.0332	343.0332	0.0138	0.0000	343.3773
Total	**0.1708**	**1.0355**	**2.1085**	**4.0400e-003**		**0.0193**	**0.0193**		**0.0193**	**0.0193**	**0.0000**	**343.0332**	**343.0332**	**0.0138**	**0.0000**	**343.3773**

3.5 Building Construction - 2031

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1986	7.3972	2.7038	0.0268	0.7574	8.4000e-003	0.7658	0.2184	8.0300e-003	0.2265	0.0000	2,674.3236	2,674.3236	0.1916	0.0000	2,679.1123
Worker	1.0280	0.5043	7.1996	0.0340	5.1374	0.0215	5.1589	1.3643	0.0198	1.3841	0.0000	3,076.9515	3,076.9515	0.0388	0.0000	3,077.9215
Total	**1.2266**	**7.9015**	**9.9034**	**0.0607**	**5.8948**	**0.0299**	**5.9247**	**1.5828**	**0.0278**	**1.6106**	**0.0000**	**5,751.2751**	**5,751.2751**	**0.2304**	**0.0000**	**5,757.0338**

3.5 Building Construction - 2032

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1715	1.0394	2.1166	4.0600e-003		0.0194	0.0194		0.0194	0.0194	0.0000	344.3479	344.3479	0.0138	0.0000	344.6933
Total	**0.1715**	**1.0394**	**2.1166**	**4.0600e-003**		**0.0194**	**0.0194**		**0.0194**	**0.0194**	**0.0000**	**344.3479**	**344.3479**	**0.0138**	**0.0000**	**344.6933**

3.5 Building Construction - 2032

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1973	7.3618	2.7133	0.0268	0.7603	8.3000e-003	0.7686	0.2193	7.9400e-003	0.2272	0.0000	2,677.3507	2,677.3507	0.1910	0.0000	2,682.1260
Worker	0.9656	0.4722	6.8640	0.0335	5.1571	0.0202	5.1772	1.3695	0.0185	1.3881	0.0000	3,030.7491	3,030.7491	0.0362	0.0000	3,031.6531
Total	**1.1628**	**7.8340**	**9.5774**	**0.0602**	**5.9174**	**0.0285**	**5.9459**	**1.5888**	**0.0265**	**1.6153**	**0.0000**	**5,708.0998**	**5,708.0998**	**0.2272**	**0.0000**	**5,713.7791**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1715	1.0394	2.1166	4.0600e-003		0.0194	0.0194		0.0194	0.0194	0.0000	344.3475	344.3475	0.0138	0.0000	344.6929
Total	**0.1715**	**1.0394**	**2.1166**	**4.0600e-003**		**0.0194**	**0.0194**		**0.0194**	**0.0194**	**0.0000**	**344.3475**	**344.3475**	**0.0138**	**0.0000**	**344.6929**

3.5 Building Construction - 2032

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1973	7.3618	2.7133	0.0268	0.7603	8.3000e-003	0.7686	0.2193	7.9400e-003	0.2272	0.0000	2,677.3507	2,677.3507	0.1910	0.0000	2,682.1260
Worker	0.9656	0.4722	6.8640	0.0335	5.1571	0.0202	5.1772	1.3695	0.0185	1.3881	0.0000	3,030.7491	3,030.7491	0.0362	0.0000	3,031.6531
Total	**1.1628**	**7.8340**	**9.5774**	**0.0602**	**5.9174**	**0.0285**	**5.9459**	**1.5888**	**0.0265**	**1.6153**	**0.0000**	**5,708.0998**	**5,708.0998**	**0.2272**	**0.0000**	**5,713.7791**

3.5 Building Construction - 2033

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1702	1.0315	2.1004	4.0200e-003		0.0193	0.0193		0.0193	0.0193	0.0000	341.7193	341.7193	0.0137	0.0000	342.0621
Total	**0.1702**	**1.0315**	**2.1004**	**4.0200e-003**		**0.0193**	**0.0193**		**0.0193**	**0.0193**	**0.0000**	**341.7193**	**341.7193**	**0.0137**	**0.0000**	**342.0621**

3.5 Building Construction - 2033

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1942	7.2465	2.6936	0.0265	0.7545	8.1200e-003	0.7626	0.2176	7.7600e-003	0.2254	0.0000	2,650.7799	2,650.7799	0.1884	0.0000	2,655.4906
Worker	0.9018	0.4400	6.4992	0.0326	5.1177	0.0187	5.1364	1.3591	0.0172	1.3763	0.0000	2,958.0342	2,958.0342	0.0335	0.0000	2,958.8722
Total	**1.0960**	**7.6865**	**9.1928**	**0.0592**	**5.8722**	**0.0269**	**5.8991**	**1.5767**	**0.0250**	**1.6017**	**0.0000**	**5,608.8141**	**5,608.8141**	**0.2220**	**0.0000**	**5,614.3627**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1702	1.0315	2.1004	4.0200e-003		0.0193	0.0193		0.0193	0.0193	0.0000	341.7189	341.7189	0.0137	0.0000	342.0617
Total	**0.1702**	**1.0315**	**2.1004**	**4.0200e-003**		**0.0193**	**0.0193**		**0.0193**	**0.0193**	**0.0000**	**341.7189**	**341.7189**	**0.0137**	**0.0000**	**342.0617**

3.5 Building Construction - 2033

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1942	7.2465	2.6936	0.0265	0.7545	8.1200e-003	0.7626	0.2176	7.7600e-003	0.2254	0.0000	2,650.7799	2,650.7799	0.1884	0.0000	2,655.4906
Worker	0.9018	0.4400	6.4992	0.0326	5.1177	0.0187	5.1364	1.3591	0.0172	1.3763	0.0000	2,958.0342	2,958.0342	0.0335	0.0000	2,958.8722
Total	**1.0960**	**7.6865**	**9.1928**	**0.0592**	**5.8722**	**0.0269**	**5.8991**	**1.5767**	**0.0250**	**1.6017**	**0.0000**	**5,608.8141**	**5,608.8141**	**0.2220**	**0.0000**	**5,614.3627**

3.5 Building Construction - 2034

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1702	1.0315	2.1004	4.0200e-003		0.0193	0.0193		0.0193	0.0193	0.0000	341.7193	341.7193	0.0137	0.0000	342.0621
Total	**0.1702**	**1.0315**	**2.1004**	**4.0200e-003**		**0.0193**	**0.0193**		**0.0193**	**0.0193**	**0.0000**	**341.7193**	**341.7193**	**0.0137**	**0.0000**	**342.0621**

3.5 Building Construction - 2034

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1927	7.1921	2.6917	0.0265	0.7545	7.9900e-003	0.7625	0.2176	7.6400e-003	0.2252	0.0000	2,645.7247	2,645.7247	0.1875	0.0000	2,650.4109
Worker	0.8536	0.4157	6.2029	0.0322	5.1177	0.0176	5.1353	1.3591	0.0162	1.3752	0.0000	2,915.3017	2,915.3017	0.0313	0.0000	2,916.0843
Total	**1.0463**	**7.6078**	**8.8946**	**0.0586**	**5.8722**	**0.0256**	**5.8978**	**1.5767**	**0.0238**	**1.6005**	**0.0000**	**5,561.0264**	**5,561.0264**	**0.2188**	**0.0000**	**5,566.4952**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1702	1.0315	2.1004	4.0200e-003		0.0193	0.0193		0.0193	0.0193	0.0000	341.7189	341.7189	0.0137	0.0000	342.0617
Total	**0.1702**	**1.0315**	**2.1004**	**4.0200e-003**		**0.0193**	**0.0193**		**0.0193**	**0.0193**	**0.0000**	**341.7189**	**341.7189**	**0.0137**	**0.0000**	**342.0617**

3.5 Building Construction - 2034

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1927	7.1921	2.6917	0.0265	0.7545	7.9900e-003	0.7625	0.2176	7.6400e-003	0.2252	0.0000	2,645.7247	2,645.7247	0.1875	0.0000	2,650.4109
Worker	0.8536	0.4157	6.2029	0.0322	5.1177	0.0176	5.1353	1.3591	0.0162	1.3752	0.0000	2,915.3017	2,915.3017	0.0313	0.0000	2,916.0843
Total	**1.0463**	**7.6078**	**8.8946**	**0.0586**	**5.8722**	**0.0256**	**5.8978**	**1.5767**	**0.0238**	**1.6005**	**0.0000**	**5,561.0264**	**5,561.0264**	**0.2188**	**0.0000**	**5,566.4952**

3.5 Building Construction - 2035

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1588	0.9346	2.1034	4.0400e-003		0.0118	0.0118		0.0118	0.0118	0.0000	343.0336	343.0336	0.0128	0.0000	343.3530
Total	**0.1588**	**0.9346**	**2.1034**	**4.0400e-003**		**0.0118**	**0.0118**		**0.0118**	**0.0118**	**0.0000**	**343.0336**	**343.0336**	**0.0128**	**0.0000**	**343.3530**

3.5 Building Construction - 2035

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1921	7.1740	2.6983	0.0265	0.7574	7.9100e-003	0.7653	0.2184	7.5600e-003	0.2260	0.0000	2,651.8743	2,651.8743	0.1873	0.0000	2,656.5556
Worker	0.8163	0.3988	5.9762	0.0319	5.1374	0.0166	5.1540	1.3643	0.0153	1.3796	0.0000	2,890.1740	2,890.1740	0.0296	0.0000	2,890.9135
Total	**1.0084**	**7.5728**	**8.6744**	**0.0584**	**5.8948**	**0.0245**	**5.9193**	**1.5828**	**0.0228**	**1.6056**	**0.0000**	**5,542.0483**	**5,542.0483**	**0.2168**	**0.0000**	**5,547.4691**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1588	0.9346	2.1034	4.0400e-003		0.0118	0.0118		0.0118	0.0118	0.0000	343.0332	343.0332	0.0128	0.0000	343.3526
Total	**0.1588**	**0.9346**	**2.1034**	**4.0400e-003**		**0.0118**	**0.0118**		**0.0118**	**0.0118**	**0.0000**	**343.0332**	**343.0332**	**0.0128**	**0.0000**	**343.3526**

3.5 Building Construction - 2035

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1921	7.1740	2.6983	0.0265	0.7574	7.9100e-003	0.7653	0.2184	7.5600e-003	0.2260	0.0000	2,651.8743	2,651.8743	0.1873	0.0000	2,656.5556
Worker	0.8163	0.3988	5.9762	0.0319	5.1374	0.0166	5.1540	1.3643	0.0153	1.3796	0.0000	2,890.1740	2,890.1740	0.0296	0.0000	2,890.9135
Total	**1.0084**	**7.5728**	**8.6744**	**0.0584**	**5.8948**	**0.0245**	**5.9193**	**1.5828**	**0.0228**	**1.6056**	**0.0000**	**5,542.0483**	**5,542.0483**	**0.2168**	**0.0000**	**5,547.4691**

3.5 Building Construction - 2036

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1594	0.9381	2.1114	4.0600e-003		0.0118	0.0118		0.0118	0.0118	0.0000	344.3479	344.3479	0.0128	0.0000	344.6686
Total	**0.1594**	**0.9381**	**2.1114**	**4.0600e-003**		**0.0118**	**0.0118**		**0.0118**	**0.0118**	**0.0000**	**344.3479**	**344.3479**	**0.0128**	**0.0000**	**344.6686**

3.5 Building Construction - 2036

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1929	7.2015	2.7086	0.0266	0.7603	7.9400e-003	0.7683	0.2193	7.5900e-003	0.2269	0.0000	2,662.0348	2,662.0348	0.1880	0.0000	2,666.7340
Worker	0.8195	0.4003	5.9991	0.0320	5.1571	0.0166	5.1737	1.3695	0.0153	1.3848	0.0000	2,901.2475	2,901.2475	0.0297	0.0000	2,901.9898
Total	**1.0123**	**7.6018**	**8.7077**	**0.0586**	**5.9174**	**0.0246**	**5.9420**	**1.5888**	**0.0229**	**1.6117**	**0.0000**	**5,563.2822**	**5,563.2822**	**0.2177**	**0.0000**	**5,568.7238**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1594	0.9381	2.1114	4.0600e-003		0.0118	0.0118		0.0118	0.0118	0.0000	344.3475	344.3475	0.0128	0.0000	344.6682
Total	**0.1594**	**0.9381**	**2.1114**	**4.0600e-003**		**0.0118**	**0.0118**		**0.0118**	**0.0118**	**0.0000**	**344.3475**	**344.3475**	**0.0128**	**0.0000**	**344.6682**

3.5 Building Construction - 2036

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1929	7.2015	2.7086	0.0266	0.7603	7.9400e-003	0.7683	0.2193	7.5900e-003	0.2269	0.0000	2,662.0348	2,662.0348	0.1880	0.0000	2,666.7340
Worker	0.8195	0.4003	5.9991	0.0320	5.1571	0.0166	5.1737	1.3695	0.0153	1.3848	0.0000	2,901.2475	2,901.2475	0.0297	0.0000	2,901.9898
Total	**1.0123**	**7.6018**	**8.7077**	**0.0586**	**5.9174**	**0.0246**	**5.9420**	**1.5888**	**0.0229**	**1.6117**	**0.0000**	**5,563.2822**	**5,563.2822**	**0.2177**	**0.0000**	**5,568.7238**

3.5 Building Construction - 2037

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0432	0.2542	0.5722	1.1000e-003		3.2100e-003	3.2100e-003		3.2100e-003	3.2100e-003	0.0000	93.3157	93.3157	3.4800e-003	0.0000	93.4026
Total	**0.0432**	**0.2542**	**0.5722**	**1.1000e-003**		**3.2100e-003**	**3.2100e-003**		**3.2100e-003**	**3.2100e-003**	**0.0000**	**93.3157**	**93.3157**	**3.4800e-003**	**0.0000**	**93.4026**

3.5 Building Construction - 2037

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0523	1.9516	0.7340	7.2100e-003	0.2061	2.1500e-003	0.2082	0.0594	2.0600e-003	0.0615	0.0000	721.3911	721.3911	0.0509	0.0000	722.6646
Worker	0.2221	0.1085	1.6257	8.6700e-003	1.3975	4.5100e-003	1.4020	0.3711	4.1500e-003	0.3753	0.0000	786.2159	786.2159	8.0500e-003	0.0000	786.4171
Total	**0.2743**	**2.0600**	**2.3597**	**0.0159**	**1.6036**	**6.6600e-003**	**1.6102**	**0.4306**	**6.2100e-003**	**0.4368**	**0.0000**	**1,507.6070**	**1,507.6070**	**0.0590**	**0.0000**	**1,509.0816**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0432	0.2542	0.5722	1.1000e-003		3.2100e-003	3.2100e-003		3.2100e-003	3.2100e-003	0.0000	93.3156	93.3156	3.4800e-003	0.0000	93.4024
Total	**0.0432**	**0.2542**	**0.5722**	**1.1000e-003**		**3.2100e-003**	**3.2100e-003**		**3.2100e-003**	**3.2100e-003**	**0.0000**	**93.3156**	**93.3156**	**3.4800e-003**	**0.0000**	**93.4024**

3.5 Building Construction - 2037

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0523	1.9516	0.7340	7.2100e-003	0.2061	2.1500e-003	0.2082	0.0594	2.0600e-003	0.0615	0.0000	721.3911	721.3911	0.0509	0.0000	722.6646
Worker	0.2221	0.1085	1.6257	8.6700e-003	1.3975	4.5100e-003	1.4020	0.3711	4.1500e-003	0.3753	0.0000	786.2159	786.2159	8.0500e-003	0.0000	786.4171
Total	**0.2743**	**2.0600**	**2.3597**	**0.0159**	**1.6036**	**6.6600e-003**	**1.6102**	**0.4306**	**6.2100e-003**	**0.4368**	**0.0000**	**1,507.6070**	**1,507.6070**	**0.0590**	**0.0000**	**1,509.0816**

3.6 Paving - 2037

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1084	0.4632	1.5029	2.6600e-003		0.0178	0.0178		0.0178	0.0178	0.0000	228.9454	228.9454	8.8100e-003	0.0000	229.1657
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.1084**	**0.4632**	**1.5029**	**2.6600e-003**		**0.0178**	**0.0178**		**0.0178**	**0.0178**	**0.0000**	**228.9454**	**228.9454**	**8.8100e-003**	**0.0000**	**229.1657**

3.6 Paving - 2037

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.4900e-003	1.2100e-003	0.0182	1.0000e-004	0.0156	5.0000e-005	0.0157	4.1500e-003	5.0000e-005	4.2000e-003	0.0000	8.8007	8.8007	9.0000e-005	0.0000	8.8030
Total	**2.4900e-003**	**1.2100e-003**	**0.0182**	**1.0000e-004**	**0.0156**	**5.0000e-005**	**0.0157**	**4.1500e-003**	**5.0000e-005**	**4.2000e-003**	**0.0000**	**8.8007**	**8.8007**	**9.0000e-005**	**0.0000**	**8.8030**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1084	0.4632	1.5029	2.6600e-003		0.0178	0.0178		0.0178	0.0178	0.0000	228.9451	228.9451	8.8100e-003	0.0000	229.1654
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.1084**	**0.4632**	**1.5029**	**2.6600e-003**		**0.0178**	**0.0178**		**0.0178**	**0.0178**	**0.0000**	**228.9451**	**228.9451**	**8.8100e-003**	**0.0000**	**229.1654**

3.6 Paving - 2037

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.4900e-003	1.2100e-003	0.0182	1.0000e-004	0.0156	5.0000e-005	0.0157	4.1500e-003	5.0000e-005	4.2000e-003	0.0000	8.8007	8.8007	9.0000e-005	0.0000	8.8030
Total	**2.4900e-003**	**1.2100e-003**	**0.0182**	**1.0000e-004**	**0.0156**	**5.0000e-005**	**0.0157**	**4.1500e-003**	**5.0000e-005**	**4.2000e-003**	**0.0000**	**8.8007**	**8.8007**	**9.0000e-005**	**0.0000**	**8.8030**

3.6 Paving - 2038

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0798	0.3413	1.1074	1.9600e-003		0.0131	0.0131		0.0131	0.0131	0.0000	168.6966	168.6966	6.4900e-003	0.0000	168.8589
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0798**	**0.3413**	**1.1074**	**1.9600e-003**		**0.0131**	**0.0131**		**0.0131**	**0.0131**	**0.0000**	**168.6966**	**168.6966**	**6.4900e-003**	**0.0000**	**168.8589**

3.6 Paving - 2038

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.8300e-003	8.9000e-004	0.0134	7.0000e-005	0.0115	4.0000e-005	0.0116	3.0600e-003	3.0000e-005	3.1000e-003	0.0000	6.4847	6.4847	7.0000e-005	0.0000	6.4864
Total	**1.8300e-003**	**8.9000e-004**	**0.0134**	**7.0000e-005**	**0.0115**	**4.0000e-005**	**0.0116**	**3.0600e-003**	**3.0000e-005**	**3.1000e-003**	**0.0000**	**6.4847**	**6.4847**	**7.0000e-005**	**0.0000**	**6.4864**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0798	0.3413	1.1074	1.9600e-003		0.0131	0.0131		0.0131	0.0131	0.0000	168.6964	168.6964	6.4900e-003	0.0000	168.8587
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0798**	**0.3413**	**1.1074**	**1.9600e-003**		**0.0131**	**0.0131**		**0.0131**	**0.0131**	**0.0000**	**168.6964**	**168.6964**	**6.4900e-003**	**0.0000**	**168.8587**

3.6 Paving - 2038

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.8300e-003	8.9000e-004	0.0134	7.0000e-005	0.0115	4.0000e-005	0.0116	3.0600e-003	3.0000e-005	3.1000e-003	0.0000	6.4847	6.4847	7.0000e-005	0.0000	6.4864
Total	**1.8300e-003**	**8.9000e-004**	**0.0134**	**7.0000e-005**	**0.0115**	**4.0000e-005**	**0.0116**	**3.0600e-003**	**3.0000e-005**	**3.1000e-003**	**0.0000**	**6.4847**	**6.4847**	**7.0000e-005**	**0.0000**	**6.4864**

3.7 Architectural Coating - 2038

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	3.4577					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.1300e-003	0.0458	0.1086	1.8000e-004		6.0000e-004	6.0000e-004		6.0000e-004	6.0000e-004	0.0000	15.4472	15.4472	5.7000e-004	0.0000	15.4615
Total	**3.4649**	**0.0458**	**0.1086**	**1.8000e-004**		**6.0000e-004**	**6.0000e-004**		**6.0000e-004**	**6.0000e-004**	**0.0000**	**15.4472**	**15.4472**	**5.7000e-004**	**0.0000**	**15.4615**

3.7 Architectural Coating - 2038

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0757	0.0370	0.5540	2.9600e-003	0.4762	1.5400e-003	0.4777	0.1265	1.4100e-003	0.1279	0.0000	267.9031	267.9031	2.7400e-003	0.0000	267.9716
Total	**0.0757**	**0.0370**	**0.5540**	**2.9600e-003**	**0.4762**	**1.5400e-003**	**0.4777**	**0.1265**	**1.4100e-003**	**0.1279**	**0.0000**	**267.9031**	**267.9031**	**2.7400e-003**	**0.0000**	**267.9716**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	3.4577					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.1300e-003	0.0458	0.1086	1.8000e-004		6.0000e-004	6.0000e-004		6.0000e-004	6.0000e-004	0.0000	15.4472	15.4472	5.7000e-004	0.0000	15.4614
Total	**3.4649**	**0.0458**	**0.1086**	**1.8000e-004**		**6.0000e-004**	**6.0000e-004**		**6.0000e-004**	**6.0000e-004**	**0.0000**	**15.4472**	**15.4472**	**5.7000e-004**	**0.0000**	**15.4614**

3.7 Architectural Coating - 2038

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0757	0.0370	0.5540	2.9600e-003	0.4762	1.5400e-003	0.4777	0.1265	1.4100e-003	0.1279	0.0000	267.9031	267.9031	2.7400e-003	0.0000	267.9716
Total	**0.0757**	**0.0370**	**0.5540**	**2.9600e-003**	**0.4762**	**1.5400e-003**	**0.4777**	**0.1265**	**1.4100e-003**	**0.1279**	**0.0000**	**267.9031**	**267.9031**	**2.7400e-003**	**0.0000**	**267.9716**

3.7 Architectural Coating - 2039

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	5.9725					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0123	0.0792	0.1875	3.1000e-004		1.0400e-003	1.0400e-003		1.0400e-003	1.0400e-003	0.0000	26.6815	26.6815	9.9000e-004	0.0000	26.7062
Total	**5.9848**	**0.0792**	**0.1875**	**3.1000e-004**		**1.0400e-003**	**1.0400e-003**		**1.0400e-003**	**1.0400e-003**	**0.0000**	**26.6815**	**26.6815**	**9.9000e-004**	**0.0000**	**26.7062**

3.7 Architectural Coating - 2039

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1307	0.0638	0.9568	5.1100e-003	0.8225	2.6500e-003	0.8252	0.2184	2.4400e-003	0.2209	0.0000	462.7417	462.7417	4.7400e-003	0.0000	462.8601
Total	**0.1307**	**0.0638**	**0.9568**	**5.1100e-003**	**0.8225**	**2.6500e-003**	**0.8252**	**0.2184**	**2.4400e-003**	**0.2209**	**0.0000**	**462.7417**	**462.7417**	**4.7400e-003**	**0.0000**	**462.8601**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	5.9725					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0123	0.0792	0.1875	3.1000e-004		1.0400e-003	1.0400e-003		1.0400e-003	1.0400e-003	0.0000	26.6815	26.6815	9.9000e-004	0.0000	26.7061
Total	**5.9848**	**0.0792**	**0.1875**	**3.1000e-004**		**1.0400e-003**	**1.0400e-003**		**1.0400e-003**	**1.0400e-003**	**0.0000**	**26.6815**	**26.6815**	**9.9000e-004**	**0.0000**	**26.7061**

3.7 Architectural Coating - 2039

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1307	0.0638	0.9568	5.1100e-003	0.8225	2.6500e-003	0.8252	0.2184	2.4400e-003	0.2209	0.0000	462.7417	462.7417	4.7400e-003	0.0000	462.8601
Total	**0.1307**	**0.0638**	**0.9568**	**5.1100e-003**	**0.8225**	**2.6500e-003**	**0.8252**	**0.2184**	**2.4400e-003**	**0.2209**	**0.0000**	**462.7417**	**462.7417**	**4.7400e-003**	**0.0000**	**462.8601**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.4759	7.0277	19.0331	0.0961	11.7332	0.0475	11.7806	3.1423	0.0441	3.1864	0.0000	8,952.4583	8,952.4583	0.3322	0.0000	8,960.7623
Unmitigated	1.4759	7.0277	19.0331	0.0961	11.7332	0.0475	11.7806	3.1423	0.0441	3.1864	0.0000	8,952.4583	8,952.4583	0.3322	0.0000	8,960.7623

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	549.50	525.00	479.50	1,831,593	1,831,593
Apartments Mid Rise	3,768.00	3,600.00	3288.00	12,559,498	12,559,498
Arena	2,721.41	2,721.41	2721.41	5,874,171	5,874,171
Enclosed Parking with Elevator	0.00	0.00	0.00		
Regional Shopping Center	1,708.00	1,998.80	1009.60	3,568,198	3,568,198
University/College (4Yr)	2,870.00	2,170.00	0.00	7,089,175	7,089,175
Total	11,616.91	11,015.21	7,498.51	30,922,635	30,922,635

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Arena	16.60	8.40	6.90	0.00	81.00	19.00	66	28	6
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Regional Shopping Center	16.60	8.40	6.90	16.30	64.70	19.00	54	35	11
University/College (4Yr)	16.60	8.40	6.90	6.40	88.60	5.00	91	9	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Regional Shopping Center	0.570257	0.042258	0.208917	0.102527	0.012284	0.005810	0.027501	0.020703	0.001922	0.001419	0.005012	0.000641	0.000749
Apartments Mid Rise	0.570257	0.042258	0.208917	0.102527	0.012284	0.005810	0.027501	0.020703	0.001922	0.001419	0.005012	0.000641	0.000749
Arena	0.570257	0.042258	0.208917	0.102527	0.012284	0.005810	0.027501	0.020703	0.001922	0.001419	0.005012	0.000641	0.000749
Enclosed Parking with Elevator	0.570257	0.042258	0.208917	0.102527	0.012284	0.005810	0.027501	0.020703	0.001922	0.001419	0.005012	0.000641	0.000749
University/College (4Yr)	0.570257	0.042258	0.208917	0.102527	0.012284	0.005810	0.027501	0.020703	0.001922	0.001419	0.005012	0.000641	0.000749

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

CSUF MPU - Operational Buildout - Orange County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	2,444.9072	2,444.9072	0.1025	0.0205	2,453.5746
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	2,508.8962	2,508.8962	0.1051	0.0210	2,517.7905
NaturalGas Mitigated	0.3378	2.9817	1.9262	0.0184		0.2334	0.2334		0.2334	0.2334	0.0000	3,342.9113	3,342.9113	0.0641	0.0613	3,362.7766
NaturalGas Unmitigated	0.3524	3.1111	2.0132	0.0192		0.2435	0.2435		0.2435	0.2435	0.0000	3,487.4751	3,487.4751	0.0668	0.0639	3,508.1995

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	2.74259e+007	0.1479	1.2637	0.5378	8.0700e-003		0.1022	0.1022		0.1022	0.1022	0.0000	1,463.5507	1,463.5507	0.0281	0.0268	1,472.2478
Apartments Mid Rise	3.99961e+006	0.0216	0.1843	0.0784	1.1800e-003		0.0149	0.0149		0.0149	0.0149	0.0000	213.4345	213.4345	4.0900e-003	3.9100e-003	214.7028
Arena	5.31069e+006	0.0286	0.2603	0.2187	1.5600e-003		0.0198	0.0198		0.0198	0.0198	0.0000	283.3986	283.3986	5.4300e-003	5.2000e-003	285.0827
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	80000	4.3000e-004	3.9200e-003	3.2900e-003	2.0000e-005		3.0000e-004	3.0000e-004		3.0000e-004	3.0000e-004	0.0000	4.2691	4.2691	8.0000e-005	8.0000e-005	4.2945
University/College (4Yr)	2.85366e+007	0.1539	1.3989	1.1750	8.3900e-003		0.1063	0.1063		0.1063	0.1063	0.0000	1,522.8222	1,522.8222	0.0292	0.0279	1,531.8716
Total		**0.3524**	**3.1111**	**2.0132**	**0.0192**		**0.2435**	**0.2435**		**0.2435**	**0.2435**	**0.0000**	**3,487.4751**	**3,487.4751**	**0.0668**	**0.0639**	**3,508.1995**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	2.64328e+007	0.1425	1.2180	0.5183	7.7700e-003		0.0985	0.0985		0.0985	0.0985	0.0000	1,410.5537	1,410.5537	0.0270	0.0259	1,418.9360
Apartments Mid Rise	3.85478e+006	0.0208	0.1776	0.0756	1.1300e-003		0.0144	0.0144		0.0144	0.0144	0.0000	205.7058	205.7058	3.9400e-003	3.7700e-003	206.9282
Arena	5.06096e+006	0.0273	0.2481	0.2084	1.4900e-003		0.0189	0.0189		0.0189	0.0189	0.0000	270.0721	270.0721	5.1800e-003	4.9500e-003	271.6770
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	77340	4.2000e-004	3.7900e-003	3.1800e-003	2.0000e-005		2.9000e-004	2.9000e-004		2.9000e-004	2.9000e-004	0.0000	4.1272	4.1272	8.0000e-005	8.0000e-005	4.1517
University/College (4Yr)	2.72179e+007	0.1468	1.3342	1.1207	8.0100e-003		0.1014	0.1014		0.1014	0.1014	0.0000	1,452.4526	1,452.4526	0.0278	0.0266	1,461.0838
Total		**0.3378**	**2.9817**	**1.9262**	**0.0184**		**0.2334**	**0.2334**		**0.2334**	**0.2334**	**0.0000**	**3,342.9113**	**3,342.9113**	**0.0641**	**0.0613**	**3,362.7766**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	1.39136e+006	75.3038	3.1600e-003	6.3000e-004	75.5708
Apartments Mid Rise	9.54072e+006	516.3690	0.0216	4.3300e-003	518.1995
Arena	2.14715e+006	116.2092	4.8700e-003	9.7000e-004	116.6211
Enclosed Parking with Elevator	9.82956e+006	532.0020	0.0223	4.4600e-003	533.8880
Regional Shopping Center	457600	24.7665	1.0400e-003	2.1000e-004	24.8543
University/College (4Yr)	2.29894e+007	1,244.2458	0.0521	0.0104	1,248.6568
Total		**2,508.8962**	**0.1051**	**0.0210**	**2,517.7905**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	1.38695e+006	75.0655	3.1500e-003	6.3000e-004	75.3316
Apartments Mid Rise	9.51052e+006	514.7345	0.0216	4.3100e-003	516.5593
Arena	2.11815e+006	114.6400	4.8000e-003	9.6000e-004	115.0464
Enclosed Parking with Elevator	9.36929e+006	507.0905	0.0213	4.2500e-003	508.8882
Regional Shopping Center	449396	24.3225	1.0200e-003	2.0000e-004	24.4087
University/College (4Yr)	2.23392e+007	1,209.0543	0.0507	0.0101	1,213.3405
Total		**2,444.9072**	**0.1025**	**0.0205**	**2,453.5746**

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	14.5485	0.3271	28.3740	1.5100e-003		0.1577	0.1577		0.1577	0.1577	0.0000	46.5479	46.5479	0.0447	0.0000	47.6647
Unmitigated	14.5485	0.3271	28.3740	1.5100e-003		0.1577	0.1577		0.1577	0.1577	0.0000	46.5479	46.5479	0.0447	0.0000	47.6647

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.9430					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	12.7501					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.8554	0.3271	28.3740	1.5100e-003		0.1577	0.1577		0.1577	0.1577	0.0000	46.5479	46.5479	0.0447	0.0000	47.6647
Total	**14.5485**	**0.3271**	**28.3740**	**1.5100e-003**		**0.1577**	**0.1577**		**0.1577**	**0.1577**	**0.0000**	**46.5479**	**46.5479**	**0.0447**	**0.0000**	**47.6647**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.9430					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	12.7501					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.8554	0.3271	28.3740	1.5100e-003		0.1577	0.1577		0.1577	0.1577	0.0000	46.5479	46.5479	0.0447	0.0000	47.6647
Total	**14.5485**	**0.3271**	**28.3740**	**1.5100e-003**		**0.1577**	**0.1577**		**0.1577**	**0.1577**	**0.0000**	**46.5479**	**46.5479**	**0.0447**	**0.0000**	**47.6647**

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	346.9328	2.2793	0.1909	460.8011
Unmitigated	411.8384	2.8483	0.2384	554.0964

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	179.174 / 112.957	257.5825	1.6653	0.1395	340.7810
Arena	109.459 / 6.98672	120.0667	1.0158	0.0849	170.7612
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	2.9629 / 1.81597	4.2283	0.0275	2.3100e-003	5.6040
University/College (4Yr)	14.9877 / 23.4423	29.9609	0.1397	0.0117	36.9502
Total		**411.8384**	**2.8483**	**0.2384**	**554.0964**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	143.339 / 112.957	219.6503	1.3328	0.1117	286.2573
Arena	87.5669 / 6.98672	96.8936	0.8127	0.0679	137.4522
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	2.37032 / 1.81597	3.6010	0.0220	1.8500e-003	4.7023
University/College (4Yr)	11.9902 / 23.4423	26.7879	0.1118	9.4100e-003	32.3893
Total		**346.9328**	**2.2793**	**0.1909**	**460.8011**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	526.0491	31.0886	0.0000	1,303.2643
Unmitigated	526.0491	31.0886	0.0000	1,303.2643

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	1265	256.7836	15.1755	0.0000	636.1704
Arena	6.99	1.4189	0.0839	0.0000	3.5153
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	42	8.5256	0.5039	0.0000	21.1219
University/College (4Yr)	1277.5	259.3210	15.3254	0.0000	642.4567
Total		**526.0491**	**31.0886**	**0.0000**	**1,303.2643**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	1265	256.7836	15.1755	0.0000	636.1704
Arena	6.99	1.4189	0.0839	0.0000	3.5153
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	42	8.5256	0.5039	0.0000	21.1219
University/College (4Yr)	1277.5	259.3210	15.3254	0.0000	642.4567
Total		**526.0491**	**31.0886**	**0.0000**	**1,303.2643**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

CSUF MPU - Operational Buildout

Orange County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
University/College (4Yr)	7,000.00	Student	29.54	1,861,488.00	0
Enclosed Parking with Elevator	1,677.40	1000sqft	38.51	1,677,400.00	0
Arena	254.10	1000sqft	81.67	254,100.00	0
Apartments Mid Rise	350.00	Dwelling Unit	9.21	539,000.00	1001
Apartments Mid Rise	2,400.00	Dwelling Unit	63.16	803,880.00	2400
Regional Shopping Center	40.00	1000sqft	0.92	40,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	30
Climate Zone	8			**Operational Year**	2035
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	119.32	**CH4 Intensity (lb/MWhr)**	0.005	**N2O Intensity (lb/MWhr)**	0.001

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CalEEMod operational years jump from 2035 to 2040, therefore earlier (more conservative) year of 2035 used for project buildout of 2039; energy intensity reduced per SB 100

Land Use - Arena used for event center; innovation center, campus amenities, academic space, and arboretum uses included as educational

Construction Phase - Operational run

Off-road Equipment -
Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Trips and VMT -

Demolition - Operational run

Grading - Operational run

Architectural Coating - 50 g/L in compliance with SCAQMD Rule 1113

Vehicle Trips - Trips adjusted for VMT per Fehr&Peers TIA (2019); 8,000 service population with 14.38 VMT per day on weekdays, reduced proportionally on weekends per CalEEMod proportions per land use

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Woodstoves - No fireplaces/woodstoves assumed

Consumer Products -

Area Coating - 50 g/L in compliance with SCAQMD Rule 1113

Energy Use -

Water And Wastewater - No septic systems

Solid Waste -

Construction Off-road Equipment Mitigation - Operational Run

Mobile Commute Mitigation -

Area Mitigation - 50 g/L in compliance with SCAQMD Rule 1113

Energy Mitigation -

Water Mitigation -

Fleet Mix -

CSUF MPU - Operational Buildout - Orange County, Winter

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	50
tblAreaCoating	Area_EF_Nonresidential_Interior	100	50
tblConstructionPhase	NumDays	4,650.00	3,300.00
tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	2,337.50	0.00
tblFireplaces	NumberNoFireplace	275.00	2,750.00
tblFireplaces	NumberWood	137.50	0.00
tblLandUse	LandUseSquareFeet	1,286,582.28	1,861,488.00
tblLandUse	LandUseSquareFeet	2,400,000.00	803,880.00
tblLandUse	LandUseSquareFeet	350,000.00	539,000.00
tblLandUse	Population	6,864.00	2,400.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.005
tblProjectCharacteristics	CO2IntensityFactor	702.44	119.32
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.001
tblVehicleTrips	ST_TR	6.39	1.50
tblVehicleTrips	ST_TR	1.30	0.31
tblVehicleTrips	SU_TR	5.86	1.37
tblVehicleTrips	WD_TR	6.65	1.57
tblVehicleTrips	WD_TR	1.71	0.41
tblWater	AerobicPercent	87.46	97.79
tblWater	AerobicPercent	87.46	97.79
tblWater	AerobicPercent	87.46	97.79

tblWater	AerobicPercent	87.46	97.79
tblWater	AerobicPercent	87.46	97.79
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWoodstoves	NumberCatalytic	137.50	0.00
tblWoodstoves	NumberNoncatalytic	137.50	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	3.2264	31.4767	21.9854	0.0403	0.1677	1.5524	1.7201	0.0445	1.4421	1.4866	0.0000	3,897.3198	3,897.3198	1.0581	0.0000	3,923.7721
2022	3.7023	38.8870	29.5639	0.0640	18.2675	1.6363	19.8813	9.9840	1.5054	11.4688	0.0000	6,203.2063	6,203.2063	1.9481	0.0000	6,251.9084
2023	3.3953	34.5551	28.5376	0.0639	8.8969	1.4259	10.3228	3.6558	1.3118	4.9676	0.0000	6,195.9094	6,195.9094	1.9477	0.0000	6,244.6029
2024	15.8335	80.5345	119.5759	0.5556	45.9735	1.3368	46.9093	12.3253	1.2298	13.2018	0.0000	57,349.4927	57,349.4927	2.9665	0.0000	57,423.6550

CSUF MPU - Operational Buildout - Orange County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2025	15.1576	78.2443	113.7686	0.5412	45.9734	0.8452	46.8186	12.3253	0.7912	13.1165	0.0000	55,928.8159	55,928.8159	2.8877	0.0000	56,001.0086
2026	14.6623	77.0068	108.9145	0.5287	45.9734	0.8360	46.8093	12.3253	0.7826	13.1079	0.0000	54,693.9400	54,693.9400	2.8198	0.0000	54,764.4358
2027	14.1736	75.8527	104.6728	0.5178	45.9734	0.8215	46.7949	12.3253	0.7693	13.0945	0.0000	53,611.7769	53,611.7769	2.7585	0.0000	53,680.7388
2028	13.6610	74.8637	100.9729	0.5083	45.9734	0.8028	46.7762	12.3253	0.7520	13.0773	0.0000	52,671.7225	52,671.7225	2.7039	0.0000	52,739.3196
2029	13.0946	73.9416	97.4604	0.4999	45.9734	0.7864	46.7598	12.3253	0.7368	13.0621	0.0000	51,847.2152	51,847.2152	2.6547	0.0000	51,913.5812
2030	12.4445	68.5443	94.2857	0.4966	45.9735	0.3921	46.3655	12.3253	0.3749	12.7002	0.0000	51,464.3166	51,464.3166	2.1247	0.0000	51,517.4329
2031	11.7850	67.6175	91.2310	0.4897	45.9735	0.3783	46.3517	12.3253	0.3622	12.6874	0.0000	50,779.2798	50,779.2798	2.0841	0.0000	50,831.3813
2032	11.2022	66.8897	88.5059	0.4842	45.9735	0.3663	46.3398	12.3253	0.3511	12.6764	0.0000	50,238.6123	50,238.6123	2.0495	0.0000	50,289.8494
2033	10.7044	66.2319	86.1575	0.4795	45.9735	0.3555	46.3290	12.3253	0.3412	12.6664	0.0000	49,772.8228	49,772.8228	2.0195	0.0000	49,823.3100
2034	10.2762	65.6409	83.9086	0.4755	45.9735	0.3454	46.3189	12.3253	0.3318	12.6571	0.0000	49,372.9754	49,372.9754	1.9922	0.0000	49,422.7794
2035	9.8254	64.3870	81.9595	0.4721	45.9735	0.2787	46.2522	12.3253	0.2658	12.5911	0.0000	49,036.3892	49,036.3892	1.9603	0.0000	49,085.3969
2036	9.8254	64.3870	81.9595	0.4721	45.9735	0.2787	46.2522	12.3253	0.2658	12.5911	0.0000	49,036.3892	49,036.3892	1.9603	0.0000	49,085.3969
2037	9.8254	64.3870	81.9595	0.4721	45.9735	0.2787	46.2522	12.3253	0.2658	12.5911	0.0000	49,036.3892	49,036.3892	1.9603	0.0000	49,085.3969
2038	58.6899	4.8886	16.0065	0.0511	8.0144	0.1879	8.0497	2.1255	0.1879	2.1587	0.0000	5,089.0003	5,089.0003	0.1033	0.0000	5,090.4878
2039	58.6899	1.3516	10.6951	0.0511	8.0144	0.0353	8.0497	2.1255	0.0333	2.1587	0.0000	5,089.0003	5,089.0003	0.0595	0.0000	5,090.4878
Maximum	**58.6899**	**80.5345**	**119.5759**	**0.5556**	**45.9735**	**1.6363**	**46.9093**	**12.3253**	**1.5054**	**13.2018**	**0.0000**	**57,349.4927**	**57,349.4927**	**2.9665**	**0.0000**	**57,423.6550**

2.1 Overall Construction (Maximum Daily Emission)

Mitigated Construction

CSUF MPU - Operational Buildout - Orange County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	3.2264	31.4767	21.9854	0.0403	0.1677	1.5524	1.7201	0.0445	1.4421	1.4866	0.0000	3,897.3198	3,897.3198	1.0581	0.0000	3,923.7721
2022	3.7023	38.8870	29.5639	0.0640	18.2675	1.6363	19.8813	9.9840	1.5054	11.4688	0.0000	6,203.2063	6,203.2063	1.9481	0.0000	6,251.9084
2023	3.3953	34.5551	28.5376	0.0639	8.8969	1.4259	10.3228	3.6558	1.3118	4.9676	0.0000	6,195.9094	6,195.9094	1.9477	0.0000	6,244.6029
2024	15.8335	80.5345	119.5759	0.5556	45.9735	1.3368	46.9093	12.3253	1.2298	13.2018	0.0000	57,349.4927	57,349.4927	2.9665	0.0000	57,423.6550
2025	15.1576	78.2443	113.7686	0.5412	45.9734	0.8452	46.8186	12.3253	0.7912	13.1165	0.0000	55,928.8159	55,928.8159	2.8877	0.0000	56,001.0086
2026	14.6623	77.0068	108.9145	0.5287	45.9734	0.8360	46.8093	12.3253	0.7826	13.1079	0.0000	54,693.9400	54,693.9400	2.8198	0.0000	54,764.4358
2027	14.1736	75.8527	104.6728	0.5178	45.9734	0.8215	46.7949	12.3253	0.7693	13.0945	0.0000	53,611.7769	53,611.7769	2.7585	0.0000	53,680.7388
2028	13.6610	74.8637	100.9729	0.5083	45.9734	0.8028	46.7762	12.3253	0.7520	13.0773	0.0000	52,671.7225	52,671.7225	2.7039	0.0000	52,739.3196
2029	13.0946	73.9416	97.4604	0.4999	45.9734	0.7864	46.7598	12.3253	0.7368	13.0621	0.0000	51,847.2152	51,847.2152	2.6547	0.0000	51,913.5812
2030	12.4445	68.5443	94.2857	0.4966	45.9735	0.3921	46.3655	12.3253	0.3749	12.7002	0.0000	51,464.3166	51,464.3166	2.1247	0.0000	51,517.4329
2031	11.7850	67.6175	91.2310	0.4897	45.9735	0.3783	46.3517	12.3253	0.3622	12.6874	0.0000	50,779.2798	50,779.2798	2.0841	0.0000	50,831.3813
2032	11.2022	66.8897	88.5059	0.4842	45.9735	0.3663	46.3398	12.3253	0.3511	12.6764	0.0000	50,238.6123	50,238.6123	2.0495	0.0000	50,289.8494
2033	10.7044	66.2319	86.1575	0.4795	45.9735	0.3555	46.3290	12.3253	0.3412	12.6664	0.0000	49,772.8228	49,772.8228	2.0195	0.0000	49,823.3100
2034	10.2762	65.6409	83.9086	0.4755	45.9735	0.3454	46.3189	12.3253	0.3318	12.6571	0.0000	49,372.9754	49,372.9754	1.9922	0.0000	49,422.7794
2035	9.8254	64.3870	81.9595	0.4721	45.9735	0.2787	46.2522	12.3253	0.2658	12.5911	0.0000	49,036.3892	49,036.3892	1.9603	0.0000	49,085.3969
2036	9.8254	64.3870	81.9595	0.4721	45.9735	0.2787	46.2522	12.3253	0.2658	12.5911	0.0000	49,036.3892	49,036.3892	1.9603	0.0000	49,085.3969
2037	9.8254	64.3870	81.9595	0.4721	45.9735	0.2787	46.2522	12.3253	0.2658	12.5911	0.0000	49,036.3892	49,036.3892	1.9603	0.0000	49,085.3969

CSUF MPU - Operational Buildout - Orange County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2038	58.6899	4.8886	16.0065	0.0511	8.0144	0.1879	8.0497	2.1255	0.1879	2.1587	0.0000	5,089.0003	5,089.0003	0.1033	0.0000	5,090.4878
2039	58.6899	1.3516	10.6951	0.0511	8.0144	0.0353	8.0497	2.1255	0.0333	2.1587	0.0000	5,089.0003	5,089.0003	0.0595	0.0000	5,090.4878
Maximum	**58.6899**	**80.5345**	**119.5759**	**0.5556**	**45.9735**	**1.6363**	**46.9093**	**12.3253**	**1.5054**	**13.2018**	**0.0000**	**57,349.4927**	**57,349.4927**	**2.9665**	**0.0000**	**57,423.6550**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**CO2e**
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	81.8741	2.6165	226.9918	0.0121		1.2614	1.2614		1.2614	1.2614	0.0000	410.4823	410.4823	0.3939	0.0000	420.3309
Energy	1.9309	17.0474	11.0312	0.1053		1.3341	1.3341		1.3341	1.3341		21,064.5660	21,064.5660	0.4037	0.3862	21,189.7422
Mobile	9.0925	41.4284	112.3010	0.5665	71.2441	0.2840	71.5281	19.0524	0.2636	19.3159		58,171.1723	58,171.1723	2.1964		58,226.0833
Total	**92.8975**	**61.0923**	**350.3240**	**0.6839**	**71.2441**	**2.8795**	**74.1236**	**19.0524**	**2.8591**	**21.9114**	**0.0000**	**79,646.2206**	**79,646.2206**	**2.9941**	**0.3862**	**79,836.1563**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	81.8741	2.6165	226.9918	0.0121		1.2614	1.2614		1.2614	1.2614	0.0000	410.4823	410.4823	0.3939	0.0000	420.3309
Energy	1.8509	16.3380	10.5545	0.1010		1.2788	1.2788		1.2788	1.2788		20,191.3916	20,191.3916	0.3870	0.3702	20,311.3789
Mobile	9.0925	41.4284	112.3010	0.5665	71.2441	0.2840	71.5281	19.0524	0.2636	19.3159		58,171.1723	58,171.1723	2.1964		58,226.0833
Total	**92.8174**	**60.3830**	**349.8473**	**0.6795**	**71.2441**	**2.8242**	**74.0683**	**19.0524**	**2.8038**	**21.8561**	**0.0000**	**78,773.0462**	**78,773.0462**	**2.9774**	**0.3702**	**78,957.7931**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.09**	**1.16**	**0.14**	**0.64**	**0.00**	**1.92**	**0.07**	**0.00**	**1.93**	**0.25**	**0.00**	**1.10**	**1.10**	**0.56**	**4.14**	**1.10**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2021	2/24/2022	5	300	
2	Site Preparation	Site Preparation	2/25/2022	11/3/2022	5	180	
3	Grading	Grading	11/4/2022	8/15/2024	5	465	
4	Building Construction	Building Construction	8/16/2024	4/9/2037	5	3300	
5	Paving	Paving	4/10/2037	7/15/2038	5	330	
6	Architectural Coating	Architectural Coating	7/16/2038	10/20/2039	5	330	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 1162.5

Acres of Paving: 38.51

Residential Indoor: 2,719,332; Residential Outdoor: 906,444; Non-Residential Indoor: 3,233,382; Non-Residential Outdoor: 1,077,794; Striped Parking Area: 100,644 (Architectural Coating – sqft)

OffRoad Equipment

CSUF MPU - Operational Buildout - Orange County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	3,586.00	922.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	717.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411		3,747.9449	3,747.9449	1.0549		3,774.3174
Total	**3.1651**	**31.4407**	**21.5650**	**0.0388**	**0.0000**	**1.5513**	**1.5513**	**0.0000**	**1.4411**	**1.4411**		**3,747.9449**	**3,747.9449**	**1.0549**		**3,774.3174**

3.2 Demolition - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0613	0.0360	0.4204	1.5000e-003	0.1677	1.0900e-003	0.1688	0.0445	1.0000e-003	0.0455		149.3748	149.3748	3.2000e-003		149.4548
Total	**0.0613**	**0.0360**	**0.4204**	**1.5000e-003**	**0.1677**	**1.0900e-003**	**0.1688**	**0.0445**	**1.0000e-003**	**0.0455**		**149.3748**	**149.3748**	**3.2000e-003**		**149.4548**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411	0.0000	3,747.9449	3,747.9449	1.0549		3,774.3174
Total	**3.1651**	**31.4407**	**21.5650**	**0.0388**	**0.0000**	**1.5513**	**1.5513**	**0.0000**	**1.4411**	**1.4411**	**0.0000**	**3,747.9449**	**3,747.9449**	**1.0549**		**3,774.3174**

3.2 Demolition - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0613	0.0360	0.4204	1.5000e-003	0.1677	1.0900e-003	0.1688	0.0445	1.0000e-003	0.0455		149.3748	149.3748	3.2000e-003		149.4548
Total	**0.0613**	**0.0360**	**0.4204**	**1.5000e-003**	**0.1677**	**1.0900e-003**	**0.1688**	**0.0445**	**1.0000e-003**	**0.0455**		**149.3748**	**149.3748**	**3.2000e-003**		**149.4548**

3.2 Demolition - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	2.6392	25.7194	20.5941	0.0388		1.2427	1.2427		1.1553	1.1553		3,746.7812	3,746.7812	1.0524		3,773.0920
Total	**2.6392**	**25.7194**	**20.5941**	**0.0388**	**0.0000**	**1.2427**	**1.2427**	**0.0000**	**1.1553**	**1.1553**		**3,746.7812**	**3,746.7812**	**1.0524**		**3,773.0920**

3.2 Demolition - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0581	0.0326	0.3918	1.4400e-003	0.1677	1.0600e-003	0.1687	0.0445	9.8000e-004	0.0455		143.8468	143.8468	2.9000e-003		143.9194
Total	**0.0581**	**0.0326**	**0.3918**	**1.4400e-003**	**0.1677**	**1.0600e-003**	**0.1687**	**0.0445**	**9.8000e-004**	**0.0455**		**143.8468**	**143.8468**	**2.9000e-003**		**143.9194**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	2.6392	25.7194	20.5941	0.0388		1.2427	1.2427		1.1553	1.1553	0.0000	3,746.7812	3,746.7812	1.0524		3,773.0920
Total	**2.6392**	**25.7194**	**20.5941**	**0.0388**	**0.0000**	**1.2427**	**1.2427**	**0.0000**	**1.1553**	**1.1553**	**0.0000**	**3,746.7812**	**3,746.7812**	**1.0524**		**3,773.0920**

3.2 Demolition - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0581	0.0326	0.3918	1.4400e-003	0.1677	1.0600e-003	0.1687	0.0445	9.8000e-004	0.0455		143.8468	143.8468	2.9000e-003		143.9194
Total	**0.0581**	**0.0326**	**0.3918**	**1.4400e-003**	**0.1677**	**1.0600e-003**	**0.1687**	**0.0445**	**9.8000e-004**	**0.0455**		**143.8468**	**143.8468**	**2.9000e-003**		**143.9194**

3.3 Site Preparation - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836		3,686.0619	3,686.0619	1.1922		3,715.8655
Total	**3.1701**	**33.0835**	**19.6978**	**0.0380**	**18.0663**	**1.6126**	**19.6788**	**9.9307**	**1.4836**	**11.4143**		**3,686.0619**	**3,686.0619**	**1.1922**		**3,715.8655**

3.3 Site Preparation - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0697	0.0391	0.4701	1.7300e-003	0.2012	1.2800e-003	0.2025	0.0534	1.1800e-003	0.0545		172.6162	172.6162	3.4800e-003		172.7033
Total	**0.0697**	**0.0391**	**0.4701**	**1.7300e-003**	**0.2012**	**1.2800e-003**	**0.2025**	**0.0534**	**1.1800e-003**	**0.0545**		**172.6162**	**172.6162**	**3.4800e-003**		**172.7033**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836	0.0000	3,686.0619	3,686.0619	1.1922		3,715.8655
Total	**3.1701**	**33.0835**	**19.6978**	**0.0380**	**18.0663**	**1.6126**	**19.6788**	**9.9307**	**1.4836**	**11.4143**	**0.0000**	**3,686.0619**	**3,686.0619**	**1.1922**		**3,715.8655**

3.3 Site Preparation - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0697	0.0391	0.4701	1.7300e-003	0.2012	1.2800e-003	0.2025	0.0534	1.1800e-003	0.0545		172.6162	172.6162	3.4800e-003		172.7033
Total	**0.0697**	**0.0391**	**0.4701**	**1.7300e-003**	**0.2012**	**1.2800e-003**	**0.2025**	**0.0534**	**1.1800e-003**	**0.0545**		**172.6162**	**172.6162**	**3.4800e-003**		**172.7033**

3.4 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	3.6248	38.8435	29.0415	0.0621		1.6349	1.6349		1.5041	1.5041		6,011.4105	6,011.4105	1.9442		6,060.0158
Total	**3.6248**	**38.8435**	**29.0415**	**0.0621**	**8.6733**	**1.6349**	**10.3082**	**3.5965**	**1.5041**	**5.1006**		**6,011.4105**	**6,011.4105**	**1.9442**		**6,060.0158**

3.4 Grading - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0774	0.0435	0.5224	1.9200e-003	0.2236	1.4200e-003	0.2250	0.0593	1.3100e-003	0.0606		191.7958	191.7958	3.8700e-003		191.8925
Total	**0.0774**	**0.0435**	**0.5224**	**1.9200e-003**	**0.2236**	**1.4200e-003**	**0.2250**	**0.0593**	**1.3100e-003**	**0.0606**		**191.7958**	**191.7958**	**3.8700e-003**		**191.8925**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	3.6248	38.8435	29.0415	0.0621		1.6349	1.6349		1.5041	1.5041	0.0000	6,011.4105	6,011.4105	1.9442		6,060.0158
Total	**3.6248**	**38.8435**	**29.0415**	**0.0621**	**8.6733**	**1.6349**	**10.3082**	**3.5965**	**1.5041**	**5.1006**	**0.0000**	**6,011.4105**	**6,011.4105**	**1.9442**		**6,060.0158**

3.4 Grading - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0774	0.0435	0.5224	1.9200e-003	0.2236	1.4200e-003	0.2250	0.0593	1.3100e-003	0.0606		191.7958	191.7958	3.8700e-003		191.8925
Total	**0.0774**	**0.0435**	**0.5224**	**1.9200e-003**	**0.2236**	**1.4200e-003**	**0.2250**	**0.0593**	**1.3100e-003**	**0.0606**		**191.7958**	**191.7958**	**3.8700e-003**		**191.8925**

3.4 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	3.3217	34.5156	28.0512	0.0621		1.4245	1.4245		1.3105	1.3105		6,011.4777	6,011.4777	1.9442		6,060.0836
Total	**3.3217**	**34.5156**	**28.0512**	**0.0621**	**8.6733**	**1.4245**	**10.0978**	**3.5965**	**1.3105**	**4.9070**		**6,011.4777**	**6,011.4777**	**1.9442**		**6,060.0836**

3.4 Grading - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0736	0.0395	0.4864	1.8500e-003	0.2236	1.3900e-003	0.2250	0.0593	1.2800e-003	0.0606		184.4317	184.4317	3.5100e-003		184.5194
Total	**0.0736**	**0.0395**	**0.4864**	**1.8500e-003**	**0.2236**	**1.3900e-003**	**0.2250**	**0.0593**	**1.2800e-003**	**0.0606**		**184.4317**	**184.4317**	**3.5100e-003**		**184.5194**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	3.3217	34.5156	28.0512	0.0621		1.4245	1.4245		1.3105	1.3105	0.0000	6,011.4777	6,011.4777	1.9442		6,060.0836
Total	**3.3217**	**34.5156**	**28.0512**	**0.0621**	**8.6733**	**1.4245**	**10.0978**	**3.5965**	**1.3105**	**4.9070**	**0.0000**	**6,011.4777**	**6,011.4777**	**1.9442**		**6,060.0836**

3.4 Grading - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0736	0.0395	0.4864	1.8500e-003	0.2236	1.3900e-003	0.2250	0.0593	1.2800e-003	0.0606		184.4317	184.4317	3.5100e-003		184.5194
Total	**0.0736**	**0.0395**	**0.4864**	**1.8500e-003**	**0.2236**	**1.3900e-003**	**0.2250**	**0.0593**	**1.2800e-003**	**0.0606**		**184.4317**	**184.4317**	**3.5100e-003**		**184.5194**

3.4 Grading - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	3.2181	32.3770	27.7228	0.0621		1.3354	1.3354		1.2286	1.2286		6,009.7487	6,009.7487	1.9437		6,058.3405
Total	**3.2181**	**32.3770**	**27.7228**	**0.0621**	**8.6733**	**1.3354**	**10.0087**	**3.5965**	**1.2286**	**4.8251**		**6,009.7487**	**6,009.7487**	**1.9437**		**6,058.3405**

3.4 Grading - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0701	0.0359	0.4523	1.7800e-003	0.2236	1.3700e-003	0.2249	0.0593	1.2600e-003	0.0606		177.1252	177.1252	3.1800e-003		177.2048
Total	**0.0701**	**0.0359**	**0.4523**	**1.7800e-003**	**0.2236**	**1.3700e-003**	**0.2249**	**0.0593**	**1.2600e-003**	**0.0606**		**177.1252**	**177.1252**	**3.1800e-003**		**177.2048**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	3.2181	32.3770	27.7228	0.0621		1.3354	1.3354		1.2286	1.2286	0.0000	6,009.7487	6,009.7487	1.9437		6,058.3405
Total	**3.2181**	**32.3770**	**27.7228**	**0.0621**	**8.6733**	**1.3354**	**10.0087**	**3.5965**	**1.2286**	**4.8251**	**0.0000**	**6,009.7487**	**6,009.7487**	**1.9437**		**6,058.3405**

3.4 Grading - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0701	0.0359	0.4523	1.7800e-003	0.2236	1.3700e-003	0.2249	0.0593	1.2600e-003	0.0606		177.1252	177.1252	3.1800e-003		177.2048
Total	**0.0701**	**0.0359**	**0.4523**	**1.7800e-003**	**0.2236**	**1.3700e-003**	**0.2249**	**0.0593**	**1.2600e-003**	**0.0606**		**177.1252**	**177.1252**	**3.1800e-003**		**177.2048**

3.5 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769		2,555.6989	2,555.6989	0.6044		2,570.8077
Total	**1.4716**	**13.4438**	**16.1668**	**0.0270**		**0.6133**	**0.6133**		**0.5769**	**0.5769**		**2,555.6989**	**2,555.6989**	**0.6044**		**2,570.8077**

3.5 Building Construction - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.7862	60.6480	22.3131	0.2104	5.8904	0.0769	5.9673	1.6951	0.0735	1.7685		23,035.2428	23,035.2428	1.7917		23,080.0342
Worker	12.5758	6.4427	81.0959	0.3183	40.0830	0.2457	40.3288	10.6302	0.2262	10.8564		31,758.5510	31,758.5510	0.5705		31,772.8132
Total	**14.3619**	**67.0908**	**103.4091**	**0.5287**	**45.9735**	**0.3226**	**46.2960**	**12.3253**	**0.2996**	**12.6249**		**54,793.7938**	**54,793.7938**	**2.3621**		**54,852.8474**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769	0.0000	2,555.6989	2,555.6989	0.6044		2,570.8077
Total	**1.4716**	**13.4438**	**16.1668**	**0.0270**		**0.6133**	**0.6133**		**0.5769**	**0.5769**	**0.0000**	**2,555.6989**	**2,555.6989**	**0.6044**		**2,570.8077**

3.5 Building Construction - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.7862	60.6480	22.3131	0.2104	5.8904	0.0769	5.9673	1.6951	0.0735	1.7685		23,035.2428	23,035.2428	1.7917		23,080.0342
Worker	12.5758	6.4427	81.0959	0.3183	40.0830	0.2457	40.3288	10.6302	0.2262	10.8564		31,758.5510	31,758.5510	0.5705		31,772.8132
Total	**14.3619**	**67.0908**	**103.4091**	**0.5287**	**45.9735**	**0.3226**	**46.2960**	**12.3253**	**0.2996**	**12.6249**		**54,793.7938**	**54,793.7938**	**2.3621**		**54,852.8474**

3.5 Building Construction - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981
Total	**1.3674**	**12.4697**	**16.0847**	**0.0270**		**0.5276**	**0.5276**		**0.4963**	**0.4963**		**2,556.4744**	**2,556.4744**	**0.6010**		**2,571.4981**

3.5 Building Construction - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.7396	59.8657	22.0316	0.2089	5.8903	0.0749	5.9653	1.6950	0.0716	1.7667		22,896.4260	22,896.4260	1.7653		22,940.5577
Worker	12.0506	5.9088	75.6523	0.3054	40.0830	0.2427	40.3258	10.6302	0.2234	10.8536		30,475.9155	30,475.9155	0.5215		30,488.9528
Total	**13.7902**	**65.7746**	**97.6839**	**0.5143**	**45.9734**	**0.3176**	**46.2910**	**12.3253**	**0.2950**	**12.6202**		**53,372.3416**	**53,372.3416**	**2.2868**		**53,429.5105**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981
Total	**1.3674**	**12.4697**	**16.0847**	**0.0270**		**0.5276**	**0.5276**		**0.4963**	**0.4963**	**0.0000**	**2,556.4744**	**2,556.4744**	**0.6010**		**2,571.4981**

3.5 Building Construction - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.7396	59.8657	22.0316	0.2089	5.8903	0.0749	5.9653	1.6950	0.0716	1.7667		22,896.4260	22,896.4260	1.7653		22,940.5577
Worker	12.0506	5.9088	75.6523	0.3054	40.0830	0.2427	40.3258	10.6302	0.2234	10.8536		30,475.9155	30,475.9155	0.5215		30,488.9528
Total	**13.7902**	**65.7746**	**97.6839**	**0.5143**	**45.9734**	**0.3176**	**46.2910**	**12.3253**	**0.2950**	**12.6202**		**53,372.3416**	**53,372.3416**	**2.2868**		**53,429.5105**

3.5 Building Construction - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981
Total	**1.3674**	**12.4697**	**16.0847**	**0.0270**		**0.5276**	**0.5276**		**0.4963**	**0.4963**		**2,556.4744**	**2,556.4744**	**0.6010**		**2,571.4981**

3.5 Building Construction - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.6981	59.0824	21.8377	0.2075	5.8903	0.0729	5.9632	1.6950	0.0697	1.7647		22,763.1484	22,763.1484	1.7397		22,806.6414
Worker	11.5969	5.4547	70.9922	0.2943	40.0830	0.2355	40.3185	10.6302	0.2167	10.8469		29,374.3173	29,374.3173	0.4792		29,386.2964
Total	**13.2949**	**64.5371**	**92.8298**	**0.5018**	**45.9734**	**0.3084**	**46.2817**	**12.3253**	**0.2864**	**12.6116**		**52,137.4657**	**52,137.4657**	**2.2189**		**52,192.9377**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981
Total	**1.3674**	**12.4697**	**16.0847**	**0.0270**		**0.5276**	**0.5276**		**0.4963**	**0.4963**	**0.0000**	**2,556.4744**	**2,556.4744**	**0.6010**		**2,571.4981**

3.5 Building Construction - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.6981	59.0824	21.8377	0.2075	5.8903	0.0729	5.9632	1.6950	0.0697	1.7647		22,763.1484	22,763.1484	1.7397		22,806.6414
Worker	11.5969	5.4547	70.9922	0.2943	40.0830	0.2355	40.3185	10.6302	0.2167	10.8469		29,374.3173	29,374.3173	0.4792		29,386.2964
Total	**13.2949**	**64.5371**	**92.8298**	**0.5018**	**45.9734**	**0.3084**	**46.2817**	**12.3253**	**0.2864**	**12.6116**		**52,137.4657**	**52,137.4657**	**2.2189**		**52,192.9377**

3.5 Building Construction - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981
Total	**1.3674**	**12.4697**	**16.0847**	**0.0270**		**0.5276**	**0.5276**		**0.4963**	**0.4963**		**2,556.4744**	**2,556.4744**	**0.6010**		**2,571.4981**

3.5 Building Construction - 2027

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.6629	58.3304	21.6825	0.2062	5.8903	0.0711	5.9615	1.6950	0.0680	1.7631		22,640.0418	22,640.0418	1.7158		22,682.9372
Worker	11.1433	5.0527	66.9056	0.2847	40.0830	0.2229	40.3059	10.6302	0.2050	10.8352		28,415.2608	28,415.2608	0.4417		28,426.3036
Total	**12.8062**	**63.3831**	**88.5882**	**0.4908**	**45.9734**	**0.2940**	**46.2674**	**12.3253**	**0.2730**	**12.5983**		**51,055.3026**	**51,055.3026**	**2.1575**		**51,109.2408**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981
Total	**1.3674**	**12.4697**	**16.0847**	**0.0270**		**0.5276**	**0.5276**		**0.4963**	**0.4963**	**0.0000**	**2,556.4744**	**2,556.4744**	**0.6010**		**2,571.4981**

3.5 Building Construction - 2027

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.6629	58.3304	21.6825	0.2062	5.8903	0.0711	5.9615	1.6950	0.0680	1.7631		22,640.0418	22,640.0418	1.7158		22,682.9372
Worker	11.1433	5.0527	66.9056	0.2847	40.0830	0.2229	40.3059	10.6302	0.2050	10.8352		28,415.2608	28,415.2608	0.4417		28,426.3036
Total	**12.8062**	**63.3831**	**88.5882**	**0.4908**	**45.9734**	**0.2940**	**46.2674**	**12.3253**	**0.2730**	**12.5983**		**51,055.3026**	**51,055.3026**	**2.1575**		**51,109.2408**

3.5 Building Construction - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981
Total	**1.3674**	**12.4697**	**16.0847**	**0.0270**		**0.5276**	**0.5276**		**0.4963**	**0.4963**		**2,556.4744**	**2,556.4744**	**0.6010**		**2,571.4981**

3.5 Building Construction - 2028

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.6328	57.6993	21.5897	0.2050	5.8904	0.0695	5.9599	1.6951	0.0664	1.7615		22,533.6492	22,533.6492	1.6940		22,575.9988
Worker	10.6608	4.6947	63.2986	0.2763	40.0830	0.2058	40.2888	10.6302	0.1893	10.8195		27,581.5990	27,581.5990	0.4090		27,591.8227
Total	**12.2936**	**62.3940**	**84.8883**	**0.4813**	**45.9734**	**0.2753**	**46.2487**	**12.3253**	**0.2558**	**12.5810**		**50,115.2481**	**50,115.2481**	**2.1029**		**50,167.8215**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981
Total	**1.3674**	**12.4697**	**16.0847**	**0.0270**		**0.5276**	**0.5276**		**0.4963**	**0.4963**	**0.0000**	**2,556.4744**	**2,556.4744**	**0.6010**		**2,571.4981**

3.5 Building Construction - 2028

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.6328	57.6993	21.5897	0.2050	5.8904	0.0695	5.9599	1.6951	0.0664	1.7615		22,533.6492	22,533.6492	1.6940		22,575.9988
Worker	10.6608	4.6947	63.2986	0.2763	40.0830	0.2058	40.2888	10.6302	0.1893	10.8195		27,581.5990	27,581.5990	0.4090		27,591.8227
Total	**12.2936**	**62.3940**	**84.8883**	**0.4813**	**45.9734**	**0.2753**	**46.2487**	**12.3253**	**0.2558**	**12.5810**		**50,115.2481**	**50,115.2481**	**2.1029**		**50,167.8215**

3.5 Building Construction - 2029

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981
Total	**1.3674**	**12.4697**	**16.0847**	**0.0270**		**0.5276**	**0.5276**		**0.4963**	**0.4963**		**2,556.4744**	**2,556.4744**	**0.6010**		**2,571.4981**

3.5 Building Construction - 2029

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.6064	57.1085	21.4984	0.2040	5.8904	0.0681	5.9585	1.6951	0.0651	1.7601		22,437.2439	22,437.2439	1.6755		22,479.1319
Worker	10.1208	4.3634	59.8773	0.2690	40.0830	0.1907	40.2738	10.6302	0.1755	10.8057		26,853.4969	26,853.4969	0.3782		26,862.9513
Total	**11.7272**	**61.4719**	**81.3757**	**0.4730**	**45.9734**	**0.2588**	**46.2322**	**12.3253**	**0.2405**	**12.5658**		**49,290.7408**	**49,290.7408**	**2.0537**		**49,342.0832**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981
Total	**1.3674**	**12.4697**	**16.0847**	**0.0270**		**0.5276**	**0.5276**		**0.4963**	**0.4963**	**0.0000**	**2,556.4744**	**2,556.4744**	**0.6010**		**2,571.4981**

3.5 Building Construction - 2029

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.6064	57.1085	21.4984	0.2040	5.8904	0.0681	5.9585	1.6951	0.0651	1.7601		22,437.2439	22,437.2439	1.6755		22,479.1319
Worker	10.1208	4.3634	59.8773	0.2690	40.0830	0.1907	40.2738	10.6302	0.1755	10.8057		26,853.4969	26,853.4969	0.3782		26,862.9513
Total	**11.7272**	**61.4719**	**81.3757**	**0.4730**	**45.9734**	**0.2588**	**46.2322**	**12.3253**	**0.2405**	**12.5658**		**49,290.7408**	**49,290.7408**	**2.0537**		**49,342.0832**

3.5 Building Construction - 2030

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
Total	**1.3091**	**7.9346**	**16.1570**	**0.0310**		**0.1481**	**0.1481**		**0.1481**	**0.1481**		**2,897.5468**	**2,897.5468**	**0.1162**		**2,900.4529**

3.5 Building Construction - 2030

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.5813	56.5529	21.4164	0.2031	5.8904	0.0666	5.9570	1.6951	0.0636	1.7587		22,349.9099	22,349.9099	1.6583		22,391.3678
Worker	9.5540	4.0568	56.7123	0.2626	40.0830	0.1774	40.2604	10.6302	0.1631	10.7934		26,216.8600	26,216.8600	0.3501		26,225.6122
Total	**11.1353**	**60.6097**	**78.1287**	**0.4657**	**45.9735**	**0.2439**	**46.2174**	**12.3253**	**0.2268**	**12.5521**		**48,566.7699**	**48,566.7699**	**2.0084**		**48,616.9800**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
Total	**1.3091**	**7.9346**	**16.1570**	**0.0310**		**0.1481**	**0.1481**		**0.1481**	**0.1481**	**0.0000**	**2,897.5468**	**2,897.5468**	**0.1162**		**2,900.4529**

3.5 Building Construction - 2030

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.5813	56.5529	21.4164	0.2031	5.8904	0.0666	5.9570	1.6951	0.0636	1.7587		22,349.9099	22,349.9099	1.6583		22,391.3678
Worker	9.5540	4.0568	56.7123	0.2626	40.0830	0.1774	40.2604	10.6302	0.1631	10.7934		26,216.8600	26,216.8600	0.3501		26,225.6122
Total	**11.1353**	**60.6097**	**78.1287**	**0.4657**	**45.9735**	**0.2439**	**46.2174**	**12.3253**	**0.2268**	**12.5521**		**48,566.7699**	**48,566.7699**	**2.0084**		**48,616.9800**

3.5 Building Construction - 2031

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
Total	**1.3091**	**7.9346**	**16.1570**	**0.0310**		**0.1481**	**0.1481**		**0.1481**	**0.1481**		**2,897.5468**	**2,897.5468**	**0.1162**		**2,900.4529**

3.5 Building Construction - 2031

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.5612	55.9236	21.3824	0.2024	5.8904	0.0654	5.9558	1.6951	0.0625	1.7576		22,282.0024	22,282.0024	1.6455		22,323.1396
Worker	8.9147	3.7592	53.6916	0.2563	40.0830	0.1648	40.2478	10.6302	0.1515	10.7818		25,599.7307	25,599.7307	0.3223		25,607.7889
Total	**10.4759**	**59.6828**	**75.0740**	**0.4587**	**45.9735**	**0.2301**	**46.2036**	**12.3253**	**0.2140**	**12.5393**		**47,881.7330**	**47,881.7330**	**1.9678**		**47,930.9284**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
Total	**1.3091**	**7.9346**	**16.1570**	**0.0310**		**0.1481**	**0.1481**		**0.1481**	**0.1481**	**0.0000**	**2,897.5468**	**2,897.5468**	**0.1162**		**2,900.4529**

3.5 Building Construction - 2031

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.5612	55.9236	21.3824	0.2024	5.8904	0.0654	5.9558	1.6951	0.0625	1.7576		22,282.0024	22,282.0024	1.6455		22,323.1396
Worker	8.9147	3.7592	53.6916	0.2563	40.0830	0.1648	40.2478	10.6302	0.1515	10.7818		25,599.7307	25,599.7307	0.3223		25,607.7889
Total	**10.4759**	**59.6828**	**75.0740**	**0.4587**	**45.9735**	**0.2301**	**46.2036**	**12.3253**	**0.2140**	**12.5393**		**47,881.7330**	**47,881.7330**	**1.9678**		**47,930.9284**

3.5 Building Construction - 2032

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
Total	**1.3091**	**7.9346**	**16.1570**	**0.0310**		**0.1481**	**0.1481**		**0.1481**	**0.1481**		**2,897.5468**	**2,897.5468**	**0.1162**		**2,900.4529**

3.5 Building Construction - 2032

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.5448	55.4492	21.3709	0.2018	5.8905	0.0643	5.9547	1.6951	0.0614	1.7565		22,222.3761	22,222.3761	1.6340		22,263.2268
Worker	8.3484	3.5058	50.9779	0.2515	40.0830	0.1539	40.2369	10.6302	0.1415	10.7717		25,118.6894	25,118.6894	0.2992		25,126.1697
Total	**9.8931**	**58.9550**	**72.3489**	**0.4533**	**45.9735**	**0.2182**	**46.1916**	**12.3253**	**0.2030**	**12.5283**		**47,341.0655**	**47,341.0655**	**1.9332**		**47,389.3966**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
Total	**1.3091**	**7.9346**	**16.1570**	**0.0310**		**0.1481**	**0.1481**		**0.1481**	**0.1481**	**0.0000**	**2,897.5468**	**2,897.5468**	**0.1162**		**2,900.4529**

3.5 Building Construction - 2032

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.5448	55.4492	21.3709	0.2018	5.8905	0.0643	5.9547	1.6951	0.0614	1.7565		22,222.3761	22,222.3761	1.6340		22,263.2268
Worker	8.3484	3.5058	50.9779	0.2515	40.0830	0.1539	40.2369	10.6302	0.1415	10.7717		25,118.6894	25,118.6894	0.2992		25,126.1697
Total	**9.8931**	**58.9550**	**72.3489**	**0.4533**	**45.9735**	**0.2182**	**46.1916**	**12.3253**	**0.2030**	**12.5283**		**47,341.0655**	**47,341.0655**	**1.9332**		**47,389.3966**

3.5 Building Construction - 2033

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
Total	**1.3091**	**7.9346**	**16.1570**	**0.0310**		**0.1481**	**0.1481**		**0.1481**	**0.1481**		**2,897.5468**	**2,897.5468**	**0.1162**		**2,900.4529**

3.5 Building Construction - 2033

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.5319	55.0061	21.3749	0.2012	5.8905	0.0633	5.9537	1.6951	0.0605	1.7555		22,171.0150	22,171.0150	1.6238		22,211.6106
Worker	7.8633	3.2912	48.6257	0.2473	40.0830	0.1441	40.2271	10.6302	0.1326	10.7628		24,704.2610	24,704.2610	0.2794		24,711.2465
Total	**9.3952**	**58.2973**	**70.0006**	**0.4486**	**45.9735**	**0.2074**	**46.1809**	**12.3253**	**0.1930**	**12.5183**		**46,875.2760**	**46,875.2760**	**1.9032**		**46,922.8571**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
Total	**1.3091**	**7.9346**	**16.1570**	**0.0310**		**0.1481**	**0.1481**		**0.1481**	**0.1481**	**0.0000**	**2,897.5468**	**2,897.5468**	**0.1162**		**2,900.4529**

3.5 Building Construction - 2033

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.5319	55.0061	21.3749	0.2012	5.8905	0.0633	5.9537	1.6951	0.0605	1.7555		22,171.0150	22,171.0150	1.6238		22,211.6106
Worker	7.8633	3.2912	48.6257	0.2473	40.0830	0.1441	40.2271	10.6302	0.1326	10.7628		24,704.2610	24,704.2610	0.2794		24,711.2465
Total	**9.3952**	**58.2973**	**70.0006**	**0.4486**	**45.9735**	**0.2074**	**46.1809**	**12.3253**	**0.1930**	**12.5183**		**46,875.2760**	**46,875.2760**	**1.9032**		**46,922.8571**

3.5 Building Construction - 2034

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481		2,897.5468	2,897.5468	0.1162		2,900.4529
Total	**1.3091**	**7.9346**	**16.1570**	**0.0310**		**0.1481**	**0.1481**		**0.1481**	**0.1481**		**2,897.5468**	**2,897.5468**	**0.1162**		**2,900.4529**

3.5 Building Construction - 2034

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.5200	54.5973	21.3568	0.2008	5.8905	0.0622	5.9526	1.6951	0.0594	1.7545		22,128.3703	22,128.3703	1.6150		22,168.7453
Worker	7.4472	3.1089	46.3949	0.2437	40.0830	0.1351	40.2181	10.6302	0.1243	10.7545		24,347.0584	24,347.0584	0.2609		24,353.5813
Total	**8.9671**	**57.7062**	**67.7517**	**0.4445**	**45.9735**	**0.1972**	**46.1707**	**12.3253**	**0.1837**	**12.5090**		**46,475.4287**	**46,475.4287**	**1.8759**		**46,522.3266**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3091	7.9346	16.1570	0.0310		0.1481	0.1481		0.1481	0.1481	0.0000	2,897.5468	2,897.5468	0.1162		2,900.4529
Total	**1.3091**	**7.9346**	**16.1570**	**0.0310**		**0.1481**	**0.1481**		**0.1481**	**0.1481**	**0.0000**	**2,897.5468**	**2,897.5468**	**0.1162**		**2,900.4529**

3.5 Building Construction - 2034

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.5200	54.5973	21.3568	0.2008	5.8905	0.0622	5.9526	1.6951	0.0594	1.7545		22,128.3703	22,128.3703	1.6150		22,168.7453
Worker	7.4472	3.1089	46.3949	0.2437	40.0830	0.1351	40.2181	10.6302	0.1243	10.7545		24,347.0584	24,347.0584	0.2609		24,353.5813
Total	**8.9671**	**57.7062**	**67.7517**	**0.4445**	**45.9735**	**0.1972**	**46.1707**	**12.3253**	**0.1837**	**12.5090**		**46,475.4287**	**46,475.4287**	**1.8759**		**46,522.3266**

3.5 Building Construction - 2035

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904		2,897.5468	2,897.5468	0.1079		2,900.2448
Total	**1.2168**	**7.1613**	**16.1178**	**0.0310**		**0.0904**	**0.0904**		**0.0904**	**0.0904**		**2,897.5468**	**2,897.5468**	**0.1079**		**2,900.2448**

3.5 Building Construction - 2035

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.5096	54.2557	21.3250	0.2004	5.8905	0.0612	5.9517	1.6951	0.0585	1.7536		22,094.3761	22,094.3761	1.6068		22,134.5467
Worker	7.0990	2.9700	44.5167	0.2407	40.0830	0.1271	40.2101	10.6302	0.1169	10.7471		24,044.4664	24,044.4664	0.2456		24,050.6054
Total	**8.6085**	**57.2257**	**65.8417**	**0.4411**	**45.9735**	**0.1883**	**46.1618**	**12.3253**	**0.1754**	**12.5007**		**46,138.8425**	**46,138.8425**	**1.8524**		**46,185.1521**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904	0.0000	2,897.5468	2,897.5468	0.1079		2,900.2448
Total	**1.2168**	**7.1613**	**16.1178**	**0.0310**		**0.0904**	**0.0904**		**0.0904**	**0.0904**	**0.0000**	**2,897.5468**	**2,897.5468**	**0.1079**		**2,900.2448**

3.5 Building Construction - 2035

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.5096	54.2557	21.3250	0.2004	5.8905	0.0612	5.9517	1.6951	0.0585	1.7536		22,094.3761	22,094.3761	1.6068		22,134.5467
Worker	7.0990	2.9700	44.5167	0.2407	40.0830	0.1271	40.2101	10.6302	0.1169	10.7471		24,044.4664	24,044.4664	0.2456		24,050.6054
Total	**8.6085**	**57.2257**	**65.8417**	**0.4411**	**45.9735**	**0.1883**	**46.1618**	**12.3253**	**0.1754**	**12.5007**		**46,138.8425**	**46,138.8425**	**1.8524**		**46,185.1521**

3.5 Building Construction - 2036

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904		2,897.5468	2,897.5468	0.1079		2,900.2448
Total	**1.2168**	**7.1613**	**16.1178**	**0.0310**		**0.0904**	**0.0904**		**0.0904**	**0.0904**		**2,897.5468**	**2,897.5468**	**0.1079**		**2,900.2448**

3.5 Building Construction - 2036

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.5096	54.2557	21.3250	0.2004	5.8905	0.0612	5.9517	1.6951	0.0585	1.7536		22,094.3761	22,094.3761	1.6068		22,134.5467
Worker	7.0990	2.9700	44.5167	0.2407	40.0830	0.1271	40.2101	10.6302	0.1169	10.7471		24,044.4664	24,044.4664	0.2456		24,050.6054
Total	**8.6085**	**57.2257**	**65.8417**	**0.4411**	**45.9735**	**0.1883**	**46.1618**	**12.3253**	**0.1754**	**12.5007**		**46,138.8425**	**46,138.8425**	**1.8524**		**46,185.1521**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904	0.0000	2,897.5468	2,897.5468	0.1079		2,900.2448
Total	**1.2168**	**7.1613**	**16.1178**	**0.0310**		**0.0904**	**0.0904**		**0.0904**	**0.0904**	**0.0000**	**2,897.5468**	**2,897.5468**	**0.1079**		**2,900.2448**

3.5 Building Construction - 2036

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.5096	54.2557	21.3250	0.2004	5.8905	0.0612	5.9517	1.6951	0.0585	1.7536		22,094.3761	22,094.3761	1.6068		22,134.5467
Worker	7.0990	2.9700	44.5167	0.2407	40.0830	0.1271	40.2101	10.6302	0.1169	10.7471		24,044.4664	24,044.4664	0.2456		24,050.6054
Total	**8.6085**	**57.2257**	**65.8417**	**0.4411**	**45.9735**	**0.1883**	**46.1618**	**12.3253**	**0.1754**	**12.5007**		**46,138.8425**	**46,138.8425**	**1.8524**		**46,185.1521**

3.5 Building Construction - 2037

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904		2,897.5468	2,897.5468	0.1079		2,900.2448
Total	**1.2168**	**7.1613**	**16.1178**	**0.0310**		**0.0904**	**0.0904**		**0.0904**	**0.0904**		**2,897.5468**	**2,897.5468**	**0.1079**		**2,900.2448**

3.5 Building Construction - 2037

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.5096	54.2557	21.3250	0.2004	5.8905	0.0612	5.9517	1.6951	0.0585	1.7536		22,094.3761	22,094.3761	1.6068		22,134.5467
Worker	7.0990	2.9700	44.5167	0.2407	40.0830	0.1271	40.2101	10.6302	0.1169	10.7471		24,044.4664	24,044.4664	0.2456		24,050.6054
Total	**8.6085**	**57.2257**	**65.8417**	**0.4411**	**45.9735**	**0.1883**	**46.1618**	**12.3253**	**0.1754**	**12.5007**		**46,138.8425**	**46,138.8425**	**1.8524**		**46,185.1521**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2168	7.1613	16.1178	0.0310		0.0904	0.0904		0.0904	0.0904	0.0000	2,897.5468	2,897.5468	0.1079		2,900.2448
Total	**1.2168**	**7.1613**	**16.1178**	**0.0310**		**0.0904**	**0.0904**		**0.0904**	**0.0904**	**0.0000**	**2,897.5468**	**2,897.5468**	**0.1079**		**2,900.2448**

3.5 Building Construction - 2037

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.5096	54.2557	21.3250	0.2004	5.8905	0.0612	5.9517	1.6951	0.0585	1.7536		22,094.3761	22,094.3761	1.6068		22,134.5467
Worker	7.0990	2.9700	44.5167	0.2407	40.0830	0.1271	40.2101	10.6302	0.1169	10.7471		24,044.4664	24,044.4664	0.2456		24,050.6054
Total	**8.6085**	**57.2257**	**65.8417**	**0.4411**	**45.9735**	**0.1883**	**46.1618**	**12.3253**	**0.1754**	**12.5007**		**46,138.8425**	**46,138.8425**	**1.8524**		**46,185.1521**

3.6 Paving - 2037

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1405	4.8761	15.8203	0.0281		0.1874	0.1874		0.1874	0.1874		2,656.5168	2,656.5168	0.1022		2,659.0727
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.1405**	**4.8761**	**15.8203**	**0.0281**		**0.1874**	**0.1874**		**0.1874**	**0.1874**		**2,656.5168**	**2,656.5168**	**0.1022**		**2,659.0727**

3.6 Paving - 2037

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0297	0.0124	0.1862	1.0100e-003	0.1677	5.3000e-004	0.1682	0.0445	4.9000e-004	0.0450		100.5764	100.5764	1.0300e-003		100.6021
Total	**0.0297**	**0.0124**	**0.1862**	**1.0100e-003**	**0.1677**	**5.3000e-004**	**0.1682**	**0.0445**	**4.9000e-004**	**0.0450**		**100.5764**	**100.5764**	**1.0300e-003**		**100.6021**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1405	4.8761	15.8203	0.0281		0.1874	0.1874		0.1874	0.1874	0.0000	2,656.5168	2,656.5168	0.1022		2,659.0726
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.1405**	**4.8761**	**15.8203**	**0.0281**		**0.1874**	**0.1874**		**0.1874**	**0.1874**	**0.0000**	**2,656.5168**	**2,656.5168**	**0.1022**		**2,659.0726**

3.6 Paving - 2037

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0297	0.0124	0.1862	1.0100e-003	0.1677	5.3000e-004	0.1682	0.0445	4.9000e-004	0.0450		100.5764	100.5764	1.0300e-003		100.6021
Total	**0.0297**	**0.0124**	**0.1862**	**1.0100e-003**	**0.1677**	**5.3000e-004**	**0.1682**	**0.0445**	**4.9000e-004**	**0.0450**		**100.5764**	**100.5764**	**1.0300e-003**		**100.6021**

3.6 Paving - 2038

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1405	4.8761	15.8203	0.0281		0.1874	0.1874		0.1874	0.1874		2,656.5168	2,656.5168	0.1022		2,659.0727
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.1405**	**4.8761**	**15.8203**	**0.0281**		**0.1874**	**0.1874**		**0.1874**	**0.1874**		**2,656.5168**	**2,656.5168**	**0.1022**		**2,659.0727**

3.6 Paving - 2038

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0297	0.0124	0.1862	1.0100e-003	0.1677	5.3000e-004	0.1682	0.0445	4.9000e-004	0.0450		100.5764	100.5764	1.0300e-003		100.6021
Total	**0.0297**	**0.0124**	**0.1862**	**1.0100e-003**	**0.1677**	**5.3000e-004**	**0.1682**	**0.0445**	**4.9000e-004**	**0.0450**		**100.5764**	**100.5764**	**1.0300e-003**		**100.6021**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1405	4.8761	15.8203	0.0281		0.1874	0.1874		0.1874	0.1874	0.0000	2,656.5168	2,656.5168	0.1022		2,659.0726
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.1405**	**4.8761**	**15.8203**	**0.0281**		**0.1874**	**0.1874**		**0.1874**	**0.1874**	**0.0000**	**2,656.5168**	**2,656.5168**	**0.1022**		**2,659.0726**

3.6 Paving - 2038

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0297	0.0124	0.1862	1.0100e-003	0.1677	5.3000e-004	0.1682	0.0445	4.9000e-004	0.0450		100.5764	100.5764	1.0300e-003		100.6021
Total	**0.0297**	**0.0124**	**0.1862**	**1.0100e-003**	**0.1677**	**5.3000e-004**	**0.1682**	**0.0445**	**4.9000e-004**	**0.0450**		**100.5764**	**100.5764**	**1.0300e-003**		**100.6021**

3.7 Architectural Coating - 2038

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	57.1526					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1179	0.7577	1.7943	2.9700e-003		9.9000e-003	9.9000e-003		9.9000e-003	9.9000e-003		281.4481	281.4481	0.0104		281.7081
Total	**57.2705**	**0.7577**	**1.7943**	**2.9700e-003**		**9.9000e-003**	**9.9000e-003**		**9.9000e-003**	**9.9000e-003**		**281.4481**	**281.4481**	**0.0104**		**281.7081**

3.7 Architectural Coating - 2038

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	1.4194	0.5938	8.9009	0.0481	8.0144	0.0254	8.0398	2.1255	0.0234	2.1488		4,807.5523	4,807.5523	0.0491		4,808.7797
Total	**1.4194**	**0.5938**	**8.9009**	**0.0481**	**8.0144**	**0.0254**	**8.0398**	**2.1255**	**0.0234**	**2.1488**		**4,807.5523**	**4,807.5523**	**0.0491**		**4,808.7797**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	57.1526					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1179	0.7577	1.7943	2.9700e-003		9.9000e-003	9.9000e-003		9.9000e-003	9.9000e-003	0.0000	281.4481	281.4481	0.0104		281.7081
Total	**57.2705**	**0.7577**	**1.7943**	**2.9700e-003**		**9.9000e-003**	**9.9000e-003**		**9.9000e-003**	**9.9000e-003**	**0.0000**	**281.4481**	**281.4481**	**0.0104**		**281.7081**

3.7 Architectural Coating - 2038

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	1.4194	0.5938	8.9009	0.0481	8.0144	0.0254	8.0398	2.1255	0.0234	2.1488		4,807.5523	4,807.5523	0.0491		4,808.7797
Total	**1.4194**	**0.5938**	**8.9009**	**0.0481**	**8.0144**	**0.0254**	**8.0398**	**2.1255**	**0.0234**	**2.1488**		**4,807.5523**	**4,807.5523**	**0.0491**		**4,808.7797**

3.7 Architectural Coating - 2039

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	57.1526					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1179	0.7577	1.7943	2.9700e-003		9.9000e-003	9.9000e-003		9.9000e-003	9.9000e-003		281.4481	281.4481	0.0104		281.7081
Total	**57.2705**	**0.7577**	**1.7943**	**2.9700e-003**		**9.9000e-003**	**9.9000e-003**		**9.9000e-003**	**9.9000e-003**		**281.4481**	**281.4481**	**0.0104**		**281.7081**

3.7 Architectural Coating - 2039

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	1.4194	0.5938	8.9009	0.0481	8.0144	0.0254	8.0398	2.1255	0.0234	2.1488		4,807.5523	4,807.5523	0.0491		4,808.7797
Total	**1.4194**	**0.5938**	**8.9009**	**0.0481**	**8.0144**	**0.0254**	**8.0398**	**2.1255**	**0.0234**	**2.1488**		**4,807.5523**	**4,807.5523**	**0.0491**		**4,808.7797**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	57.1526					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1179	0.7577	1.7943	2.9700e-003		9.9000e-003	9.9000e-003		9.9000e-003	9.9000e-003	0.0000	281.4481	281.4481	0.0104		281.7081
Total	**57.2705**	**0.7577**	**1.7943**	**2.9700e-003**		**9.9000e-003**	**9.9000e-003**		**9.9000e-003**	**9.9000e-003**	**0.0000**	**281.4481**	**281.4481**	**0.0104**		**281.7081**

3.7 Architectural Coating - 2039

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	1.4194	0.5938	8.9009	0.0481	8.0144	0.0254	8.0398	2.1255	0.0234	2.1488		4,807.5523	4,807.5523	0.0491		4,808.7797
Total	**1.4194**	**0.5938**	**8.9009**	**0.0481**	**8.0144**	**0.0254**	**8.0398**	**2.1255**	**0.0234**	**2.1488**		**4,807.5523**	**4,807.5523**	**0.0491**		**4,808.7797**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	9.0925	41.4284	112.3010	0.5665	71.2441	0.2840	71.5281	19.0524	0.2636	19.3159		58,171.1723	58,171.1723	2.1964		58,226.0833
Unmitigated	9.0925	41.4284	112.3010	0.5665	71.2441	0.2840	71.5281	19.0524	0.2636	19.3159		58,171.1723	58,171.1723	2.1964		58,226.0833

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	549.50	525.00	479.50	1,831,593	1,831,593
Apartments Mid Rise	3,768.00	3,600.00	3288.00	12,559,498	12,559,498
Arena	2,721.41	2,721.41	2721.41	5,874,171	5,874,171
Enclosed Parking with Elevator	0.00	0.00	0.00		
Regional Shopping Center	1,708.00	1,998.80	1009.60	3,568,198	3,568,198
University/College (4Yr)	2,870.00	2,170.00	0.00	7,089,175	7,089,175
Total	11,616.91	11,015.21	7,498.51	30,922,635	30,922,635

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Arena	16.60	8.40	6.90	0.00	81.00	19.00	66	28	6
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Regional Shopping Center	16.60	8.40	6.90	16.30	64.70	19.00	54	35	11
University/College (4Yr)	16.60	8.40	6.90	6.40	88.60	5.00	91	9	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Regional Shopping Center	0.570257	0.042258	0.208917	0.102527	0.012284	0.005810	0.027501	0.020703	0.001922	0.001419	0.005012	0.000641	0.000749
Apartments Mid Rise	0.570257	0.042258	0.208917	0.102527	0.012284	0.005810	0.027501	0.020703	0.001922	0.001419	0.005012	0.000641	0.000749
Arena	0.570257	0.042258	0.208917	0.102527	0.012284	0.005810	0.027501	0.020703	0.001922	0.001419	0.005012	0.000641	0.000749
Enclosed Parking with Elevator	0.570257	0.042258	0.208917	0.102527	0.012284	0.005810	0.027501	0.020703	0.001922	0.001419	0.005012	0.000641	0.000749
University/College (4Yr)	0.570257	0.042258	0.208917	0.102527	0.012284	0.005810	0.027501	0.020703	0.001922	0.001419	0.005012	0.000641	0.000749

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

CSUF MPU - Operational Buildout - Orange County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	1.8509	16.3380	10.5545	0.1010		1.2788	1.2788		1.2788	1.2788		20,191.3916	20,191.3916	0.3870	0.3702	20,311.3789
NaturalGas Unmitigated	1.9309	17.0474	11.0312	0.1053		1.3341	1.3341		1.3341	1.3341		21,064.5660	21,064.5660	0.4037	0.3862	21,189.7422

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	10957.8	0.1182	1.0098	0.4297	6.4500e-003		0.0817	0.0817		0.0817	0.0817		1,289.1575	1,289.1575	0.0247	0.0236	1,296.8183
Apartments Mid Rise	75139.5	0.8103	6.9246	2.9467	0.0442		0.5599	0.5599		0.5599	0.5599		8,839.9368	8,839.9368	0.1694	0.1621	8,892.4682
Arena	14549.8	0.1569	1.4265	1.1982	8.5600e-003		0.1084	0.1084		0.1084	0.1084		1,711.7454	1,711.7454	0.0328	0.0314	1,721.9174
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	219.178	2.3600e-003	0.0215	0.0181	1.3000e-004		1.6300e-003	1.6300e-003		1.6300e-003	1.6300e-003		25.7857	25.7857	4.9000e-004	4.7000e-004	25.9389
University/College (4Yr)	78182.5	0.8431	7.6650	6.4386	0.0460		0.5825	0.5825		0.5825	0.5825		9,197.9407	9,197.9407	0.1763	0.1686	9,252.5995
Total		**1.9309**	**17.0474**	**11.0312**	**0.1053**		**1.3341**	**1.3341**		**1.3341**	**1.3341**		**21,064.5660**	**21,064.5660**	**0.4037**	**0.3862**	**21,189.7422**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	10.561	0.1139	0.9733	0.4142	6.2100e-003		0.0787	0.0787		0.0787	0.0787		1,242.4755	1,242.4755	0.0238	0.0228	1,249.8589
Apartments Mid Rise	72.4186	0.7810	6.6739	2.8399	0.0426		0.5396	0.5396		0.5396	0.5396		8,519.8320	8,519.8320	0.1633	0.1562	8,570.4611
Arena	13.8656	0.1495	1.3594	1.1419	8.1600e-003		0.1033	0.1033		0.1033	0.1033		1,631.2524	1,631.2524	0.0313	0.0299	1,640.9461
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	0.21189	2.2900e-003	0.0208	0.0175	1.2000e-004		1.5800e-003	1.5800e-003		1.5800e-003	1.5800e-003		24.9283	24.9283	4.8000e-004	4.6000e-004	25.0764
University/College (4Yr)	74.5697	0.8042	7.3108	6.1410	0.0439		0.5556	0.5556		0.5556	0.5556		8,772.9035	8,772.9035	0.1682	0.1608	8,825.0364
Total		**1.8509**	**16.3380**	**10.5545**	**0.1010**		**1.2788**	**1.2788**		**1.2788**	**1.2788**		**20,191.3916**	**20,191.3916**	**0.3870**	**0.3702**	**20,311.3789**

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	81.8741	2.6165	226.9918	0.0121		1.2614	1.2614		1.2614	1.2614	0.0000	410.4823	410.4823	0.3939	0.0000	420.3309
Unmitigated	81.8741	2.6165	226.9918	0.0121		1.2614	1.2614		1.2614	1.2614	0.0000	410.4823	410.4823	0.3939	0.0000	420.3309

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	5.1672					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	69.8638					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	6.8430	2.6165	226.9918	0.0121		1.2614	1.2614		1.2614	1.2614		410.4823	410.4823	0.3939		420.3309
Total	**81.8741**	**2.6165**	**226.9918**	**0.0121**		**1.2614**	**1.2614**		**1.2614**	**1.2614**	**0.0000**	**410.4823**	**410.4823**	**0.3939**	**0.0000**	**420.3309**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	5.1672					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	69.8638					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	6.8430	2.6165	226.9918	0.0121		1.2614	1.2614		1.2614	1.2614		410.4823	410.4823	0.3939		420.3309
Total	**81.8741**	**2.6165**	**226.9918**	**0.0121**		**1.2614**	**1.2614**		**1.2614**	**1.2614**	**0.0000**	**410.4823**	**410.4823**	**0.3939**	**0.0000**	**420.3309**

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

S219783

IN THE SUPREME COURT OF C ALIFORNIA

SIERRA CLUB, REVIVE THE SAN JOAQUIN, and
LEAGUE OF WOMEN VOTERS OF FRESNO,

Plaintiffs and Appellants,

v.

COUNTY OF FRESNO,

Defendant and Respondent,

and,

FRIANT RANCH, L.P.,

Real Party in Interest and Respondent.

SUPREME COURT
FILED

APR 13 2015

Frank A. McGuire Clerk

Deputy

After a Published Decision by the Court of Appeal, filed May 27, 2014
Fifth Appellate District Case No. F066798

Appeal from the Superior Court of California, County of Fresno
Case No. 11CECG00726
Honorable Rosendo A. Pena, Jr.

APPLICATION OF THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT FOR LEAVE TO FILE BRIEF OF *AMICUS CURIAE* IN SUPPORT OF NEITHER PARTY AND *[PROPOSED]* BRIEF OF *AMICUS CURIAE*

Kurt R. Wiese, General Counsel (SBN 127251)
*Barbara Baird, Chief Deputy Counsel (SBN 81507)
SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT
21865 Copley Drive, Diamond Bar, CA 91765
Telephone: 909-396-2302; Facsimile: 909-396-2961
Email: bbaird@aqmd.gov
Counsel for [Proposed] Amicus Curiae,
SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT

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TO THE HONORABLE CHIEF JUSTICE AND JUSTICES OF THE SUPREME COURT:

APPLICATION FOR LEAVE TO FILE *AMICUS CURIAE* BRIEF

Pursuant to Rule 8.520(f) of the California Rules of Court, the South Coast Air Quality Management District (SCAQMD) respectfully requests leave to file the attached *amicus curiae* brief. Because SCAQMD's position differs from that of either party, we request leave to submit this amicus brief in support of neither party.

HOW THIS BRIEF WILL ASSIST THE COURT

SCAQMD's proposed amicus brief takes a position on two of the issues in this case. In both instances, its position differs from that of either party. The issues are:

1) Does the California Environmental Quality Act (CEQA) require an environmental impact report (EIR) to correlate a project's air pollution emissions with specific levels of health impacts?
2) What is the proper standard of review for determining whether an EIR provides sufficient information on the health impacts caused by a project's emission of air pollutants?

This brief will assist the Court by discussing the practical realities of correlating identified air quality impacts with specific health outcomes. In short, CEQA requires agencies to provide detailed information about a project's air quality impacts that is sufficient for the public and decisionmakers to adequately evaluate the project and meaningfully understand its impacts. However, the level of analysis is governed by a rule of reason; CEQA only requires agencies to conduct analysis if it is reasonably feasible to do so.

With regard to health-related air quality impacts, an analysis that correlates a project's air pollution emissions with specific levels of health impacts will be feasible in some cases but not others. Whether it is feasible depends on a variety of factors, including the nature of the project and the nature of the analysis under consideration. The feasibility of analysis may also change over time as air districts and others develop new tools for measuring projects' air quality related health impacts. Because SCAQMD has among the most sophisticated air quality modeling and health impact evaluation capability of any of the air districts in the State, it is uniquely situated to express an opinion on the extent to which the Court should hold that CEQA requires lead agencies to correlate air quality impacts with specific health outcomes.

SCAQMD can also offer a unique perspective on the question of the appropriate standard of review. SCAQMD submits that the proper standard of review for determining whether an EIR is sufficient as an informational document is more nuanced than argued by either party. In our view, this is a mixed question of fact and law. It includes determining whether additional analysis is feasible, which is primarily a factual question that should be reviewed under the substantial evidence standard. However, it also involves determining whether the omission of a particular analysis renders an EIR insufficient to serve CEQA's purpose as a meaningful, informational document. If a lead agency has not determined that a requested analysis is infeasible, it is the court's role to determine whether the EIR nevertheless meets CEQA's purposes, and courts should not defer to the lead agency's conclusions regarding the legal sufficiency of an EIR's analysis. The ultimate question of whether an EIR's analysis is "sufficient" to serve CEQA's informational purposes is predominately a question of law that courts should review de novo.

This brief will explain the rationale for these arguments and may assist the Court in reaching a conclusion that accords proper respect to a lead agency's factual conclusions while maintaining judicial authority over the ultimate question of what level of analysis CEQA requires.

STATEMENT OF INTEREST OF *AMICUS CURIAE*

The SCAQMD is the regional agency primarily responsible for air pollution control in the South Coast Air Basin, which consists of all of Orange County and the non-desert portions of the Los Angeles, Riverside, and San Bernardino Counties. (Health & Saf. Code § 40410; Cal. Code Regs., tit. 17, § 60104.) The SCAQMD participates in the CEQA process in several ways. Sometimes it acts as a lead agency that prepares CEQA documents for projects. Other times it acts as a responsible agency when it has permit authority over some part of a project that is undergoing CEQA review by a different lead agency. Finally, SCAQMD also acts as a commenting agency for CEQA documents that it receives because it is a public agency with jurisdiction by law over natural resources affected by the project.

In all of these capacities, SCAQMD will be affected by the decision in this case. SCAQMD sometimes submits comments requesting that a lead agency perform an additional type of air quality or health impacts analysis. On the other hand, SCAQMD sometimes determines that a particular type of health impact analysis is not feasible or would not produce reliable and informative results. Thus, SCAQMD will be affected by the Court's resolution of the extent to which CEQA requires EIRs to correlate emissions and health impacts, and its resolution of the proper standard of review.

CERTIFICATION REGARDING AUTHORSHIP AND FUNDING

No party or counsel in the pending case authored the proposed amicus curiae brief in whole or in part, or made any monetary contribution intended to fund the preparation or submission of the brief. No person or entity other than the proposed *Amicus Curiae* made any monetary contribution intended to fund the preparation or submission of the brief.

Respectfully submitted,

DATED: April 3, 2015

SOUTH COAST AIR QUALITY
MANAGEMENT DISTRICT
KURT R. WIESE, GENERAL COUNSEL
BARBARA BAIRD, CHIEF DEPUTY COUNSEL

By: Barbara Baird
Barbara Baird
Attorneys for [proposed] Amicus Curiae
SOUTH COAST AIR QUALITY
MANAGEMENT DISTICT

BRIEF OF AMICUS CURIAE

SUMMARY OF ARGUMENT

The South Coast Air Quality Management District (SCAQMD) submits that this Court should not try to establish a hard-and-fast rule concerning whether lead agencies are required to correlate emissions of air pollutants with specific health consequences in their environmental impact reports (EIR). The level of detail required in EIRs is governed by a few, core CEQA (California Environmental Quality Act) principles. As this Court has stated, "[a]n EIR must include detail sufficient to enable those who did not participate in its preparation to understand and to consider meaningfully the issues raised by the proposed project." (*Laurel Heights Improvement Assn. v. Regents of the Univ of Cal.* (1988) 47 Cal.3d 376, 405 ["*Laurel Heights I*"]) Accordingly, "an agency must use its best efforts to find out and disclose all that it reasonably can." (*Vineyard Area Citizens for Responsible Growth, Inc. v. City of Rancho Cordova* (2007) 40 Cal.4th 412, 428 (quoting CEQA Guidelines § 15144)[1].). However, "[a]nalysis of environmental effects need not be exhaustive, but will be judged in light of what is reasonably feasible." (*Association of Irritated Residents v. County of Madera* (2003) 107 Cal.App.4th 1383, 1390; CEQA Guidelines §§ 15151, 15204(a).)

With regard to analysis of air quality related health impacts, EIRs must generally quantify a project's pollutant emissions, but in some cases it is not feasible to correlate these emissions to specific, quantifiable health impacts (e.g., premature mortality; hospital admissions). In such cases, a general description of the adverse health impacts resulting from the pollutants at issue may be sufficient. In other cases, due to the magnitude

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[1] The CEQA Guidelines are found at Cal. Code Regs., tit. 14 §§ 15000, *et seq*.

or nature of the pollution emissions, as well as the specificity of the project involved, it may be feasible to quantify health impacts. Or there may be a less exacting, but still meaningful analysis of health impacts that can feasibly be performed. In these instances, agencies should disclose those impacts.

SCAQMD also submits that whether or not an EIR complies with CEQA's informational mandates by providing sufficient, feasible analysis is a mixed question of fact and law. Pertinent here, the question of whether an EIR's discussion of health impacts from air pollution is sufficient to allow the public to understand and consider meaningfully the issues involves two inquiries: (1) Is it feasible to provide the information or analysis that a commenter is requesting or a petitioner is arguing should be required?; and (2) Even if it is feasible, is the agency relying on other policy or legal considerations to justify not preparing the requested analysis? The first question of whether an analysis is feasible is primarily a question of fact that should be judged by the substantial evidence standard. The second inquiry involves evaluating CEQA's information disclosure purposes against the asserted reasons to not perform the requested analysis. For example, an agency might believe that its EIR meets CEQA's informational disclosure standards even without a particular analysis, and therefore choose not to conduct that analysis. SCAQMD submits that this is more of a legal question, which should be reviewed de novo as a question of law.

ARGUMENT

I. RELEVANT FACTUAL AND LEGAL FRAMEWORK.

A. Air Quality Regulatory Background

The South Coast Air Quality Management District (SCAQMD) is one of the local and regional air pollution control districts and air quality

management districts in California. The SCAQMD is the regional air pollution agency for the South Coast Air Basin, which consists of all of Orange County and the non-desert portions of Los Angeles, Riverside, and San Bernardino Counties. (Health & Saf. Code § 40410, 17 Cal. Code Reg. § 60104.) The SCAQMD also includes the Coachella Valley in Riverside County (Palm Springs area to the Salton Sea). (SCAQMD, *Final 2012 AQMP (Feb. 2013)*, http://www.aqmd.gov/home/library/clean-air-plans/air-quality-mgt-plan/final-2012-air-quality-management-plan; then follow "chapter 7" hyperlink; pp 7-1, 7-3 (last visited Apr. 1, 2015).) The SCAQMD's jurisdiction includes over 16 million residents and has the worst or nearly the worst air pollution levels in the country for ozone and fine particulate matter. (SCAQMD, *Final 2012 AQMP (Feb. 2013)*, http://www.aqmd.gov/home/library/clean-air-plans/air-quality-mgt-plan/final-2012-air-quality-management-plan; then follow "Executive Summary" hyperlink p. ES-1 (last visited Apr. 1, 2015).)

Under California law, the local and regional districts are primarily responsible for controlling air pollution from all sources except motor vehicles. (Health & Saf. Code § 40000.) The California Air Resources Board (CARB), part of the California Environmental Protection Agency, is primarily responsible for controlling pollution from motor vehicles. (*Id.*) The air districts must adopt rules to achieve and maintain the state and federal ambient air quality standards within their jurisdictions. (Health & Saf. Code § 40001.)

The federal Clean Air Act (CAA) requires the United States Environmental Protection Agency (EPA) to identify pollutants that are widely distributed and pose a threat to human health, developing a so-called "criteria" document. (42 U.S.C. § 7408; CAA § 108.) These pollutants are frequently called "criteria pollutants." EPA must then establish "national ambient air quality standards" at levels "requisite to protect public health",

allowing "an adequate margin of safety." (42 U.S.C. § 7409; CAA § 109.) EPA has set standards for six identified pollutants: ozone, nitrogen dioxide, sulfur dioxide, carbon monoxide, particulate matter (PM), and lead. (U.S. EPA, National Ambient Air Quality Standards (NAAQS), http://www.epa.gov/air/criteria.html (last updated Oct. 21, 2014).)[2]

Under the Clean Air Act, EPA sets emission standards for motor vehicles and "nonroad engines" (mobile farm and construction equipment, marine vessels, locomotives, aircraft, etc.). (42 U.S.C. §§ 7521, 7547; CAA §§ 202, 213.) California is the only state allowed to establish emission standards for motor vehicles and most nonroad sources; however, it may only do so with EPA's approval. (42 U.S.C. §§ 7543(b), 7543(e); CAA §§ 209(b), 209(c).) Sources such as manufacturing facilities, power plants and refineries that are not mobile are often referred to as "stationary sources." The Clean Air Act charges state and local agencies with the primary responsibility to attain the national ambient air quality standards. (42 U.S.C. § 7401(a)(3); CAA § 101(a)(3).) Each state must adopt and implement a plan including enforceable measures to achieve and maintain the national ambient air quality standards. (42 U.S.C. § 7410; CAA § 110.) The SCAQMD and CARB jointly prepare portion of the plan for the South Coast Air Basin and submit it for approval by EPA. (Health & Saf. Code §§ 40460, et seq.)

The Clean Air Act also requires state and local agencies to adopt a permit program requiring, among other things, that new or modified "major" stationary sources use technology to achieve the "lowest achievable emission rate," and to control minor stationary sources as

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[2] Particulate matter (PM) is further divided into two categories: fine particulate or $PM_{2.5}$ (particles with a diameter of less than or equal to 2.5 microns) and coarse particulate (PM_{10}) (particles with a diameter of 10 microns or less). (U.S. EPA, Particulate Matter (PM), http://www.epa.gov/airquality/particlepollution/ (last visited Apr. 1, 2015).)

needed to help attain the standards. (42 U.S.C. §§ 7502(c)(5), 7503(a)(2), 7410(a)(2)(C); CAA §§ 172(c)(5), 173(a)(2), 110(a)(2)(C).) The air districts implement these permit programs in California. (Health & Saf. Code §§ 42300, et seq.)

The Clean Air Act also sets out a regulatory structure for over 100 so-called "hazardous air pollutants" calling for EPA to establish "maximum achievable control technology" (MACT) for sources of these pollutants. (42 U.S.C. § 7412(d)(2); CAA § 112(d)(2).) California refers to these pollutants as "toxic air contaminants" (TACs) which are subject to two state-required programs. The first program requires "air toxics control measures" for specific categories of sources. (Health & Saf. Code § 39666.) The other program requires larger stationary sources and sources identified by air districts to prepare "health risk assessments" for impacts of toxic air contaminants. (Health & Saf. Code §§ 44320(b), 44322, 44360.) If the health risk exceeds levels identified by the district as "significant," the facility must implement a "risk reduction plan" to bring its risk levels below "significant" levels. Air districts may adopt additional more stringent requirements than those required by state law, including requirements for toxic air contaminants. (Health & Saf. Code § 41508; *Western Oil & Gas Assn. v. Monterey Bay Unified APCD* (1989) 49 Cal.3d 408, 414.) For example, SCAQMD has adopted a rule requiring new or modified sources to keep their risks below specified levels and use best available control technology (BACT) for toxics. (SCAQMD, *Rule 1401-New Source Review of Toxic Air Contaminants*, http://www.aqmd.gov/home/regulations/rules/scaqmd-rule-book/regulation-xiv; then follow "Rule 1401" hyperlink (last visited Apr. 1, 2015).)

B. The SCAQMD's Role Under CEQA

The California Environmental Quality Act (CEQA) requires public agencies to perform an environmental review and appropriate analysis for projects that they implement or approve. (Pub. Resources Code § 21080(a).) The agency with primary approval authority for a particular project is generally the "lead agency" that prepares the appropriate CEQA document. (CEQA Guidelines §§ 15050, 15051.) Other agencies having a subsequent approval authority over all or part of a project are called "responsible" agencies that must determine whether the CEQA document is adequate for their use. (CEQA Guidelines §§ 15096(c), 15381.) Lead agencies must also consult with and circulate their environmental impact reports to "trustee agencies" and agencies "with jurisdiction by law" including "authority over resources which may be affected by the project." (Pub. Resources Code §§ 21104(a), 21153; CEQA Guidelines §§ 15086(a)(3), 15073(c).) The SCAQMD has a role in all these aspects of CEQA.

Fulfilling its responsibilities to implement its air quality plan and adopt rules to attain the national ambient air quality standards, SCAQMD adopts a dozen or more rules each year to require pollution reductions from a wide variety of sources. The SCAQMD staff evaluates each rule for any adverse environmental impact and prepares the appropriate CEQA document. Although most rules reduce air emissions, they may have secondary environmental impacts such as use of water or energy or disposal of waste—e.g., spent catalyst from control equipment.[3]

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[3] The SCAQMD's CEQA program for its rules is a "Certified Regulatory Program" under which it prepares a "functionally equivalent" document in lieu of a negative declaration or EIR. (Pub. Resources Code § 21080.5, CEQA Guidelines § 15251(l).)

The SCAQMD also approves a large number of permits every year to construct new, modified, or replacement facilities that emit regulated air pollutants. The majority of these air pollutant sources have already been included in an earlier CEQA evaluation for a larger project, are currently being evaluated by a local government as lead agency, or qualify for an exemption. However, the SCAQMD sometimes acts as lead agency for major projects where the local government does not have a discretionary approval. In such cases, SCAQMD prepares and certifies a negative declaration or environmental impact report (EIR) as appropriate.[4] SCAQMD evaluates perhaps a dozen such permit projects under CEQA each year. SCAQMD is often also a "responsible agency" for many projects since it must issue a permit for part of the projects (e.g., a boiler used to provide heat in a commercial building). For permit projects evaluated by another lead agency under CEQA, SCAQMD has the right to determine that the CEQA document is inadequate for its purposes as a responsible agency, but it may not do so because its permit program already requires all permitted sources to use the best available air pollution control technology. (SCAQMD, *Rule 1303(a)(1) – Requirements*, http://www.aqmd.gov/home/regulations/rules/scaqmd-rule-book/regulation-xiii; then follow "Rule 1303" hyperlink (last visited Apr. 1, 2015).)

Finally, SCAQMD receives as many as 60 or more CEQA documents each month (around 500 per year) in its role as commenting agency or an agency with "jurisdiction by law" over air quality—a natural resource affected by the project. (Pub. Resources Code §§ 21104(a), 21153; CEQA Guidelines § 15366(a)(3).) The SCAQMD staff provides comments on as many as 25 or 30 such documents each month.

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[4] The SCAQMD's permit projects are not included in its Certified Regulatory Program, and are evaluated under the traditional local government CEQA analysis. (Pub. Resources Code §§ 21150-21154.)

(SCAQMD Governing Board Agenda, Apr. 3, 2015, Agenda Item 16, Attachment A, http://www.aqmd.gov/home/library/meeting-agendas-minutes/agenda?title=governing-board-meeting-agenda-april-3-2015; then follow "16. Lead Agency Projects and Environmental Documents Received by SCAQMD" hyperlink (last visited Apr. 1, 2015).) Of course, SCAQMD focuses its commenting efforts on the more significant projects.

Typically, SCAQMD comments on the adequacy of air quality analysis, appropriateness of assumptions and methodology, and completeness of the recommended air quality mitigation measures. Staff may comment on the need to prepare a health risk assessment detailing the projected cancer and noncancer risks from toxic air contaminants resulting from the project, particularly the impacts of diesel particulate matter, which CARB has identified as a toxic air contaminant based on its carcinogenic effects. (California Air Resources Board, Resolution 98-35, Aug. 27, 1998, http://www.arb.ca.gov/regact/diesltac/diesltac.htm; then follow Resolution 98-35 hyperlink (last visited Apr. 1, 2015).) Because SCAQMD already requires new or modified stationary sources of toxic air contaminants to use the best available control technology for toxics and to keep their risks below specified levels, (SCAQMD Rule 1401, supra, note 15), the greatest opportunity to further mitigate toxic impacts through the CEQA process is by reducing emissions—particularly diesel emissions—from vehicles.

II. THIS COURT SHOULD NOT SET A HARD-AND-FAST RULE CONCERNING THE EXTENT TO WHICH AN EIR MUST CORRELATE A PROJECT'S EMISSION OF POLLUTANTS WITH RESULTING HEALTH IMPACTS.

Numerous cases hold that courts do not review the correctness of an EIR's conclusions but rather its sufficiency as an informative document. (*Laurel Heights 1*, *supra*, 47 Cal.3d at p. 392; *Citizens of Goleta Valley v.*

Bd. of Supervisors (1990) 52 Cal.3d 553, 569; *Bakersfield Citizens for Local Control v. City of Bakersfield* (2004) 124 Cal.App.4th 1184, 1197.)

As stated by the Court of Appeal in this case, where an EIR has addressed a topic, but the petitioner claims that the information provided about that topic is insufficient, courts must "draw[] a line that divides *sufficient* discussions from those that are *insufficient*." (*Sierra Club v. County of Fresno* (2014) 226 Cal.App.4th 704 (superseded by grant of review) 172 Cal.Rptr.3d 271, 290.) The Court of Appeal readily admitted that "[t]he terms themselves – sufficient and insufficient – provide little, if any, guidance as to where the line should be drawn. They are simply labels applied once the court has completed its analysis." (*Id.*)

The CEQA Guidelines, however, provide guidance regarding what constitutes a sufficient discussion of impacts. Section 15151 states that "the sufficiency of an EIR is to be reviewed in light of what is reasonably feasible." Case law reflects this: "Analysis of environmental effects need not be exhaustive, but will be judged in light of what was reasonably feasible." (*Association of Irritated Residents v. County of Madera, supra,* 107 Cal.App.4th at p. 1390; see also CEQA Guidelines § 15204(a).)

Applying this test, this Court cannot realistically establish a hard-and-fast rule that an analysis correlating air pollution impacts of a project to quantified resulting health impacts is always required, or indeed that it is never required. Simply put, in some cases such an analysis will be "feasible"; in some cases it will not.

For example, air pollution control districts often require a proposed new source of toxic air contaminants to prepare a "health risk assessment" before issuing a permit to construct. District rules often limit the allowable cancer risk the new source may cause to the "maximally exposed individual" (worker and residence exposures). (*See, e.g.*, SCAQMD Rule 1401(c)(8); 1401(d)(1), *supra* note 15.) In order to perform this analysis, it

is necessary to have data regarding the sources and types of air toxic contaminants, location of emission points, velocity of emissions, the meteorology and topography of the area, and the location of receptors (worker and residence). (SCAQMD, *Supplemental Guidelines for Preparing Risk Assessments for the Air Toxics "Hot Spots" Information and Assessment Act (AB2588), pp. 11-16*; (last visited Apr. 1, 2015) http://www.aqmd.gov/home/library/documents-support-material; "Guidelines" hyperlink; AB2588; then follow AB2588 Risk Assessment Guidelines hyperlink.)

Thus, it is feasible to determine the health risk posed by a new gas station locating at an intersection in a mixed use area, where receptor locations are known. On the other hand, it may not be feasible to perform a health risk assessment for airborne toxics that will be emitted by a generic industrial building that was built on "speculation" (i.e., without knowing the future tenant(s)). Even where a health risk assessment can be prepared, however, the resulting maximum health risk value is only a calculation of risk—it does not necessarily mean anyone will contract cancer as a result of the project.

In order to find the "cancer burden" or expected additional cases of cancer resulting from the project, it is also necessary to know the numbers and location of individuals living within the "zone of impact" of the project: i.e., those living in areas where the projected cancer risk from the project exceeds one in a million. (SCAQMD, Health Risk Assessment Summary form, http://www.aqmd.gov/home/forms ; filter by "AB2588" category; then "Health Risk Assessment" hyperlink (last visited Apr. 1, 2015).) The affected population is divided into bands of those exposed to at least 1 in a million risk, those exposed to at least 10 in a million risk, etc. up to those exposed at the highest levels. (*Id.*) This data allows agencies to calculate an approximate number of additional cancer cases expected from

the project. However, it is not possible to predict which particular individuals will be affected.

For the so-called criteria pollutants[5], such as ozone, it may be more difficult to quantify health impacts. Ozone is formed in the atmosphere from the chemical reaction of the nitrogen oxides (NO_x) and volatile organic compounds (VOC) in the presence of sunlight. (U.S. EPA, Ground Level Ozone, http://www.epa.gov/airquality/ozonepollution/ (last updated Mar. 25, 2015).) It takes time and the influence of meteorological conditions for these reactions to occur, so ozone may be formed at a distance downwind from the sources. (U.S. EPA, *Guideline on Ozone Monitoring Site Selection* (Aug. 1998) EPA-454/R-98-002 § 5.1.2, http://www.epa.gov/ttnamti1/archive/cpreldoc.html (last visited Apr. 1, 2015).) NO_x and VOC are known as "precursors" of ozone.

Scientifically, health effects from ozone are correlated with increases in the ambient level of ozone in the air a person breathes. (U.S. EPA, *Health Effects of Ozone in the General Population,* Figure 9, http://www.epa.gov/apti/ozonehealth/population.html#levels (last visited Apr. 1, 2015).) However, it takes a large amount of additional precursor emissions to cause a modeled increase in ambient ozone levels over an entire region. For example, the SCAQMD's 2012 AQMP showed that reducing NO_x by 432 tons per day (157,680 tons/year) and reducing VOC by 187 tons per day (68,255 tons/year) would reduce ozone levels at the SCAQMD's monitor site with the highest levels by only 9 parts per billion. (South Coast Air Quality Management District, *Final 2012 AQMP (February 2013)*, http://www.aqmd.gov/home/library/clean-air-plans/air-quality-mgt-plan/final-2012-air-quality-management-plan; then follow "Appendix V: Modeling & Attainment Demonstrations" hyperlink,

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[5] See discussion of types of pollutants, supra, Part I.A.

pp. v-4-2, v-7-4, v-7-24.) SCAQMD staff does not currently know of a way to accurately quantify ozone-related health impacts caused by NO_x or VOC emissions from relatively small projects.

On the other hand, this type of analysis may be feasible for projects on a regional scale with very high emissions of NO_x and VOCs, where impacts are regional. For example, in 2011 the SCAQMD performed a health impact analysis in its CEQA document for proposed Rule 1315, which authorized various newly-permitted sources to use offsets from the districts "internal bank" of emission reductions. This CEQA analysis accounted for essentially *all* the increases in emissions due to new or modified sources in the District between 2010 and 2030.[6] The SCAQMD was able to correlate this very large emissions increase (e.g., 6,620 pounds per day NO_x (1,208 tons per year), 89,180 pounds per day VOC (16,275 tons per year)) to expected health outcomes from ozone and particulate matter (e.g., 20 premature deaths per year and 89,947 school absences in the year 2030 due to ozone).[7] (SCAQMD Governing Board Agenda, February 4, 2011, Agenda Item 26, *Assessment for: Re-adoption of Proposed Rule 1315 – Federal New Source Review Tracking System* (see hyperlink in fn 6) at p. 4.1-35, Table 4.1-29.)

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[6] (SCAQMD Governing Board Agenda, February 4, 2011, Agenda Item 26, Attachment G, *Assessment for: Re-adoption of Proposed Rule 1315 – Federal New Source Review Tracking System, Vol. 1, p.4.0-6*, http://www.aqmd.gov/home/library/meeting-agendas-minutes/agenda?title=governing-board-meeting-agenda-february-4-2011; the follow "26. Adopt Proposed Rule 1315 – Federal New Source Review Tracking System" (last visited April 1, 2015).)

[7] The SCAQMD was able to establish the location of future NO_x and VOC emissions by assuming that new projects would be built in the same locations and proportions as existing stationary sources. This CEQA document was upheld by the Los Angeles County Superior Court in *Natural Res. Def. Council v SCAQMD*, Los Angeles Superior Court No. BS110792).

However, a project emitting only 10 tons per year of NO_x or VOC is small enough that its regional impact on ambient ozone levels may not be detected in the regional air quality models that are currently used to determine ozone levels. Thus, in this case it would not be feasible to directly correlate project emissions of VOC or NO_x with specific health impacts from ozone. This is in part because ozone formation is not linearly related to emissions. Ozone impacts vary depending on the location of the emissions, the location of other precursor emissions, meteorology and seasonal impacts, and because ozone is formed some time later and downwind from the actual emission. (EPA Guideline on Ozone Monitoring Site Selection (Aug. 1998) EPA-454/R-98-002, § 5.1.2; https://www.epa.gov/ttnamti1/archive/cpreldoc.html; then search "Guideline on Ozone Monitoring Site Selection" click on pdf) (last viewed Apr. 1, 2015).)

SCAQMD has set its CEQA "significance" threshold for NO_x and VOC at 10 tons per year (expressed as 55 lb/day). (SCAQMD, *Air Quality Analysis Handbook*, http://www.aqmd.gov/home/regulations/ceqa/air-quality-analysis-handbook; then follow "SCAQMD Air Quality Significance Thresholds" hyperlink (last visited Apr. 1, 2015).) This is because the federal Clean Air Act defines a "major" stationary source for "extreme" ozone nonattainment areas such as SCAQMD as one emitting 10 tons/year. (42 U.S.C. §§ 7511a(e), 7511a(f); CAA §§ 182(e), 182(f).) Under the Clean Air Act, such sources are subject to enhanced control requirements (42 U.S.C. §§ 7502(c)(5), 7503; CAA §§ 172(c)(5), 173), so SCAQMD decided this was an appropriate threshold for making a CEQA "significance" finding and requiring feasible mitigation. Essentially, SCAQMD takes the position that a source that emits 10 tons/year of NO_x or VOC would contribute cumulatively to ozone formation. Therefore, lead agencies that use SCAQMD's thresholds of significance may determine

that many projects have "significant" air quality impacts and must apply all feasible mitigation measures, yet will not be able to precisely correlate the project to quantifiable health impacts, unless the emissions are sufficiently high to use a regional modeling program.

In the case of particulate matter ($PM_{2.5}$)[8], another "criteria" pollutant, SCAQMD staff is aware of two possible methods of analysis. SCAQMD used regional modeling to predict expected health impacts from its proposed Rule 1315, as mentioned above. Also, the California Air Resources Board (CARB) has developed a methodology that can predict expected mortality (premature deaths) from large amounts of $PM_{2.5}$. (California Air Resources Board, *Health Impacts Analysis: PM Premature Death Relationship*, http://www.arb.ca.gov/research/health/pm-mort/pm-mort_arch.htm (last reviewed Jan. 19, 2012).) SCAQMD used the CARB methodology to predict impacts from three very large power plants (e.g., 731-1837 lbs/day). (Final Environmental Assessment for Rule 1315, *supra*, pp 4.0-12, 4.1-13, 4.1-37 (e.g., 125 premature deaths in the entire SCAQMD in 2030), 4.1-39 (0.05 to 1.77 annual premature deaths from power plants.) Again, this project involved large amounts of additional $PM_{2.5}$ in the District, up to 2.82 tons/day (5,650 lbs/day of $PM_{2.5}$, or, or 1029 tons/year. (*Id.* at table 4.1-4, p. 4.1-10.)

However, the primary author of the CARB methodology has reported that this $PM_{2.5}$ health impact methodology is not suited for small projects and may yield unreliable results due to various uncertainties.[9] (SCAQMD, *Final Subsequent Mitigated Negative Declaration for: Warren*

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[8] SCAQMD has not attained the latest annual or 24-hour national ambient air quality standards for "$PM_{2.5}$" or particulate matter less than 2.5 microns in diameter.

[9] Among these uncertainties are the representativeness of the population used in the methodology, and the specific source of PM and the corresponding health impacts. (*Id.* at p. 2-24.)

E&P, Inc. WTU Central Facility, New Equipment Project (certified July 19, 2011), http://www.aqmd.gov/home/library/documents-support-material/lead-agency-permit-projects/permit-project-documents---year-2011; then follow "Final Subsequent Mitigated Negative Declaration for Warren E&P Inc. WTU Central Facility, New Equipment Project" hyperlink, pp. 2-22, 2-23 (last visited Apr. 1, 2015).) Therefore, when SCAQMD prepared a CEQA document for the expansion of an existing oil production facility, with very small $PM_{2.5}$ increases (3.8 lb/day) and a very small affected population, staff elected not to use the CARB methodology for using estimated $PM_{2.5}$ emissions to derive a projected premature mortality number and explained why it would be inappropriate to do so. (*Id.* at pp 2-22 to 2-24.) SCAQMD staff concluded that use of this methodology for such a small source could result in unreliable findings and would not provide meaningful information. (*Id.* at pp. 2-23, 2-25.) This CEQA document was not challenged in court.

In the above case, while it may have been technically possible to plug the data into the methodology, the results would not have been reliable or meaningful. SCAQMD believes that an agency should not be required to perform analyses that do not produce reliable or meaningful results. This Court has already held that an agency may decline to use even the "normal" "existing conditions" CEQA baseline where to do so would be misleading or without informational value. (*Neighbors for Smart Rail v. Exposition Metro Line* (2013) 57 Cal.4th 439, 448, 457.) The same should be true for a decision that a particular study or analysis would not provide reliable or meaningful results.[10]

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[10] Whether a particular study would result in "informational value" is a part of deciding whether it is "feasible." CEQA defines "feasible" as "capable of being accomplished in a successful manner within a reasonable period of time, taking into account economic, environmental, social, and

Therefore, it is not possible to set a hard-and-fast rule on whether a correlation of air quality impacts with specific quantifiable health impacts is required in all cases. Instead, the result turns on whether such an analysis is reasonably feasible in the particular case.[11] Moreover, what is reasonably feasible may change over time as scientists and regulatory agencies continually seek to improve their ability to predict health impacts. For example, CARB staff has been directed by its Governing Board to reassess and improve the methodology for estimating premature deaths. (California Air Resources Board, *Health Impacts Analysis: PM Mortality Relationship*, http://www.arb.ca.gov/research/health/pm-mort/pm-mort.htm (last reviewed Dec. 29, 2010).) This factor also counsels against setting any hard-and-fast rule in this case.

III. THE QUESTION OF WHETHER AN EIR CONTAINS SUFFICIENT ANALYSIS TO MEET CEQA'S REQUIREMENTS IS A MIXED QUESTION OF FACT AND LAW GOVERNED BY TWO DIFFERENT STANDARDS OF REVIEW.

A. Standard of Review for Feasibility Determination and Sufficiency as an Informative Document

A second issue in this case is whether courts should review an EIR's informational sufficiency under the "substantial evidence" test as argued by Friant Ranch or the "independent judgment" test as argued by Sierra Club.

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technological factors." (Pub. Resources Code § 21061.1.) A study cannot be "accomplished in a *successful* manner" if it produces unreliable or misleading results.

[11] In this case, the lead agency did not have an opportunity to determine whether the requested analysis was feasible because the comment was non-specific. Therefore, SCAQMD suggests that this Court, after resolving the legal issues in the case, direct the Court of Appeal to remand the case to the lead agency for a determination of whether the requested analysis is feasible. Because Fresno County, the lead agency, did not seek review in this Court, it seems likely that the County has concluded that at least some level of correlation of air pollution with health impacts is feasible.

As this Court has explained, "a reviewing court must adjust its scrutiny to the nature of the alleged defect, depending on whether the claim is predominantly one of improper procedure or a dispute over the facts." (*Vineyard Area Citizens v. City of Rancho Cordova, supra,* 40 Cal.4th at 435.) For questions regarding compliance with proper procedure or other legal questions, courts review an agency's action de novo under the "independent judgment" test. (*Id.*) On the other hand, courts review factual disputes only for substantial evidence, thereby "accord[ing] greater deference to the agency's substantive factual conclusions." (*Id.*)

Here, Friant Ranch and Sierra Club agree that the case involves the question of whether an EIR includes sufficient information regarding a project's impacts. However, they disagree on the proper standard of review for answering this question: Sierra Club contends that courts use the independent judgment standard to determine whether an EIR's analysis is sufficient to meet CEQA's informational purposes,[12] while Friant Ranch contends that the substantial evidence standard applies to this question.

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[12] Sierra Club acknowledges that courts use the substantial evidence standard when reviewing predicate factual issues, but argues that courts ultimately decide as a matter of law what CEQA requires. (Answering Brief, pp. 14, 23.)

SCAQMD submits that the issue is more nuanced than either party contends. We submit that, whether a CEQA document includes sufficient analysis to satisfy CEQA's informational mandates is a mixed question of fact and law,[13] containing two levels of inquiry that should be judged by different standards.[14]

The state CEQA Guidelines set forth standards for the adequacy of environmental analysis. Guidelines Section 15151 states:

> An EIR should be prepared with a sufficient degree of analysis to provide decision makers with information which enables them to make a decision which intelligently takes account of environmental consequences. An evaluation of the environmental effects of a proposed project need not be exhaustive, but the sufficiency of an EIR is to be reviewed in light of what is reasonably feasible. Disagreement among experts does not make an EIR inadequate, but the EIR should summarize the main points of disagreement among the experts. The courts have looked not for perfection, but for adequacy, completeness, and a good-faith effort at full disclosure.

In this case, the basic question is whether the underlying analysis of air quality impacts made the EIR "sufficient" as an informative document. However, whether the EIR's analysis was sufficient is judged in light of what was reasonably feasible. This represents a mixed question of fact and law that is governed by two different standards of review.

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[13] Friant Ranch actually states that the claim that an EIR lacks sufficient relevant information is, "most properly thought of as raising mixed questions of fact and law." (Opening Brief, p. 27.) However, the remainder of its argument claims that the court should apply the substantial evidence standard of review to all aspects of the issue.

[14] Mixed questions of fact and law issues may implicate predominantly factual subordinate questions that are reviewed under the substantial evidence test even though the ultimate question may be reviewed by the independent judgment test. *Crocker National Bank v. City and County of San Francisco* (1989) 49 Cal.3d 881, 888-889.

SCAQMD submits that an EIR's sufficiency as an informational document is ultimately a legal question that courts should determine using their independent judgment. This Court's language in *Laurel Heights I* supports this position. As this Court explained: "The court does not pass upon the correctness of the EIR's environmental conclusions, but only upon its *sufficiency as an informative document*." (*Laurel Heights I, supra*, 47 Cal.3d at 392-393) (emphasis added.) As described above, the Court in *Vineyard Area Citizens v. City of Rancho Cordova, supra,* 40 Cal.4th at 431, also used its independent judgment to determine what level of analysis CEQA requires for water supply impacts. The Court did not defer to the lead agency's opinion regarding the law's requirements; rather, it determined for itself what level of analysis was necessary to meet "[t]he law's informational demands." (*Id.* at p. 432.) Further, existing case law also holds that where an agency fails to comply with CEQA's information disclosure requirements, the agency has "failed to proceed in the manner required by law." (*Save Our Peninsula Comm. v. Monterey County Bd. of Supervisors* (2001) 87 Cal.App.4th 99, 118.)

However, whether an EIR satisfies CEQA's requirements depends in part on whether it was reasonably feasible for an agency to conduct additional or more thorough analysis. EIRs must contain "a detailed statement" of a project's impacts (Pub. Res. Code § 21061), and an agency must "use its best efforts to find out and disclose all that it reasonably can." (CEQA Guidelines § 15144.) Nevertheless, "the sufficiency of an EIR is to be reviewed in light of what is reasonably feasible." (CEQA Guidelines § 15151.)

SCAQMD submits that the question of whether additional analysis or a particular study suggested by a commenter is "feasible" is generally a question of fact. Courts have already held that whether a particular alternative is "feasible" is reviewed by the substantial evidence test.

(*Uphold Our Heritage v. Town of Woodside* (2007) 147 Cal.App.4th 587, 598-99; *Center for Biological Diversity v. County of San Bernardino* (2010) 185 Cal.App.4th 866, 883.) Thus, if a lead agency determines that a particular study or analysis is infeasible, that decision should generally be judged by the substantial evidence standard. However, SCAQMD urges this Court to hold that lead agencies must explain the basis of any determination that a particular analysis is infeasible in the EIR itself. An EIR must discuss information, including issues related to the feasibility of particular analyses "in sufficient detail to enable meaningful participation and criticism by the public. '[W]hatever is required to be considered in an EIR must be in that formal report; what any official might have known from other writings or oral presentations cannot supply what is lacking in the report.'" (*Laurel Heights I*, *supra*, 47 Cal.3d at p. 405 (quoting *Santiago County Water District v. County of Orange* (1981) 118 Cal.App.3d 818, 831) (discussing analysis of alternatives).) The evidence on which the determination is based should also be summarized in the EIR itself, with appropriate citations to reference materials if necessary. Otherwise commenting agencies such as SCAQMD would be forced to guess where the lead agency's evidence might be located, thus thwarting effective public participation.

Moreover, if a lead agency determines that a particular study or analysis would not result in reliable or useful information and for that reason is not feasible, that determination should be judged by the substantial evidence test. (See *Neighbors for Smart Rail v. Exposition Metro Line Construction Authority*, *supra*, 57 Cal.4th 439, 448, 457:

whether "existing conditions" baseline would be misleading or uninformative judged by substantial evidence standard.[15])

If the lead agency's determination that a particular analysis or study is not feasible is supported by substantial evidence, then the agency has not violated CEQA's information disclosure provisions, since it would be infeasible to provide additional information. This Court's decisions provide precedent for such a result. For example, this Court determined that the issue of whether the EIR should have included a more detailed discussion of future herbicide use was resolved because substantial evidence supported the agency's finding that "the precise parameters of future herbicide use could not be predicted." *Ebbetts Pass Forest Watch v. California Dept. of Forestry & Fire Protection* (2008) 43 Cal.4th 936, 955.

Of course, SCAQMD expects that courts will continue to hold lead agencies to their obligations to consult with, and not to ignore or misrepresent, the views of sister agencies having special expertise in the area of air quality. (*Berkeley Keep Jets Over the Bay v. Board of Port Commissioners* (2007) 91 Cal.App.4th 1344, 1364 n.11.) In some cases, information provided by such expert agencies may establish that the purported evidence relied on by the lead agency is not in fact "substantial". (*Id.* at pp. 1369-1371.)

In sum, courts retain ultimate responsibility to determine what CEQA requires. However, the law does not require exhaustive analysis, but only what is reasonably feasible. Agencies deserve deference for their factual determinations regarding what type of analysis is reasonably feasible. On the other hand, if a commenter requests more information, and the lead agency declines to provide it but does *not* determine that the

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[15] The substantial evidence standard recognizes that the courts "have neither the resources nor the scientific expertise" to weigh conflicting evidence on technical issues. (*Laurel Heights I, supra,* 47 Cal.3d 376, 393.)

requested study or analysis would be infeasible, misleading or uninformative, the question becomes whether the omission of that analysis renders the EIR inadequate to satisfy CEQA's informational purposes. (*Id.* at pp. 1370-71.) Again, this is predominantly a question of law and should be judged by the de novo or independent judgment standard of review. Of course, this Court has recognized that a "project opponent or reviewing court can always imagine some additional study or analysis that might provide helpful information. It is not for them to design the EIR. That further study...might be helpful does not make it necessary." (*Laurel Heights I, supra,* 47 Cal.3d 376, 415 – see also CEQA Guidelines § 15204(a) [CEQA "does not require a lead agency to conduct every test. . . recommended or demanded by commenters."].) Courts, then, must adjudicate whether an omission of particular information renders an EIR inadequate to serve CEQA's informational purposes.[16]

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[16] We recognize that there is case law stating that the substantial evidence standard applies to "challenges to the scope of an EIR's analysis of a topic" as well as the methodology used and the accuracy of the data relied on in the document "because these types of challenges involve factual questions." (*Bakersfield Citizens for Local Control v. City of Bakersfield*, *supra*, 124 Cal.App.4th 1184, 1198, and cases relied on therein.) However, we interpret this language to refer to situations where the question of the scope of the analysis really is factual—that is, where it involves whether further analysis is feasible, as discussed above. This interpretation is supported by the fact that the *Bakersfield* court expressly rejected an argument that a claimed "omission of information from the EIR should be treated as inquiries whether there is substantial evidence supporting the decision approving the project. " *Bakersfield, supra,* 124 Cal.App.4th at p. 1208. And the *Bakersfield* court ultimately decided that the lead agency must analyze the connection between the identified air pollution impacts and resulting health impacts, even though the EIR already included some discussion of air-pollution-related respiratory illnesses. *Bakersfield, supra,* 124 Cal.App.4th at p. 1220. Therefore, the court must not have interpreted this question as one of the "scope of the analysis" to be judged by the substantial evidence standard.

B. Friant Ranch's Rationale for Rejecting the Independent Judgment Standard of Review is Unsupported by Case Law.

In its brief, Friant Ranch makes a distinction between cases where a required CEQA topic is not discussed at all (to be reviewed by independent judgment as a failure to proceed in the manner required by law) and cases where a topic is discussed, but the commenter claims the information provided is insufficient (to be judged by the substantial evidence test). (Opening Brief, pp. 13-17.) The Court of Appeal recognized these two types of cases, but concluded that both raised questions of law. (*Sierra Club v. County of Fresno* (2014) 226 Cal.App.4th 704 (superseded by grant of review) 172 Cal.Rptr.3d 271, 290.) We believe the distinction drawn by Friant Ranch is unduly narrow, and inconsistent with cases which have concluded that CEQA documents are insufficient. In many instances, CEQA's requirements are stated broadly, and the courts must interpret the law to determine what level of analysis satisfies CEQA's mandate for providing meaningful information, even though the EIR discusses the issue to some extent.

For example, the CEQA Guidelines require discussion of the existing environmental baseline. In *County of Amador v. El Dorado County Water Agency* (1999) 76 Cal.App.4th 931, 954-955, the lead agency had discussed the environmental baseline by describing historic month-end water levels in the affected lakes. However, the court held that this was not an adequate baseline discussion because it failed to discuss the timing and amounts of past actual water releases, to allow comparison with the proposed project. The court evidently applied the independent judgment test to its decision, even though the agency discussed the issue to some extent.

Likewise, in *Vineyard Area Citizens* (2007) 40 Cal.4th 412, this Court addressed the question of whether an EIR's analysis of water supply impacts complied with CEQA. The parties agreed that the EIR was required to analyze the effects of providing water to the development project, "and that in order to do so the EIR had, in some manner, to identify the planned sources of that water." (*Vineyard Area Citizens, supra,* at p. 428.) However, the parties disagreed as to the level of detail required for this analysis and "what level of uncertainty regarding the availability of water supplies can be tolerated in an EIR . . . ." (*Id.*) In other words, the EIR had analyzed water supply impacts for the project, but the petitioner claimed that the analysis was insufficient.

This Court noted that neither CEQA's statutory language or the CEQA Guidelines specifically addressed the question of how precisely an EIR must discuss water supply impacts. (*Id.*) However, it explained that CEQA "states that '[w]hile foreseeing the unforeseeable is not possible, an agency must use its best efforts to find out and disclose all that it reasonably can.'" (*Id.*, [Guidelines § 15144].) The Court used this general principle, along with prior precedent, to elucidate four "principles for analytical adequacy" that are necessary in order to satisfy "CEQA's informational purposes." (*Vineyard Area Citizens, supra,* at p. 430.) The Court did not defer to the agency's determination that the EIR's analysis of water supply impacts was sufficient. Rather, this Court used its independent judgment to determine for itself the level of analysis required to satisfy CEQA's fundamental purposes. (*Vineyard Area Citizens, supra*, at p. 441: an EIR does not serve its purposes where it neglects to explain likely sources of water and "... leaves long term water supply considerations to later stages of the project.")

Similarly, the CEQA Guidelines require an analysis of noise impacts of the project. (Appendix G, "Environmental Checklist Form."[17]) In *Gray v. County of Madera* (2008) 167 Cal.App.4th 1099, 1123, the court held that the lead agency's noise impact analysis was inadequate even though it had addressed the issue and concluded that the increase would not be noticeable. If the court had been using the substantial evidence standard, it likely would have upheld this discussion.

Therefore, we do not agree that the issue can be resolved on the basis suggested by Friant Ranch, which would apply the substantial evidence standard to *every* challenge to an analysis that addresses a required CEQA topic. This interpretation would subvert the courts' proper role in interpreting CEQA and determining what the law requires.

Nor do we agree that the Court of Appeal in this case violated CEQA's prohibition on courts interpreting its provisions "in a manner which imposes procedural or substantive requirements beyond those explicitly stated in this division or in the state guidelines." (Pub. Resources Code § 21083.1.) CEQA requires an EIR to describe *all* significant impacts of the project on the environment. (Pub. Resources Code § 21100(b)(2); *Vineyard Area Citizens, supra,* at p. 428.) Human beings are part of the environment, so CEQA requires EIRs to discuss a project's significant impacts on human health. However, except in certain particular circumstances,[18] neither the CEQA statute nor Guidelines specify the precise level of analysis that agencies must undertake to satisfy the law's requirements. (see, e.g., CEQA Guidelines § 15126.2(a) [EIRs must describe "health and safety problems caused by {a project's} physical changes"].) Accordingly, courts must interpret CEQA as a whole to

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[17] Association of Environmental Professionals, 2015 CEQA Statute and Guidelines (2015) p.287.

[18] E.g., Pub. Resources Code § 21151.8(C)(3)(B)(iii) (requiring specific type of health risk analysis for siting schools).

determine whether a particular EIR is sufficient as an informational document. A court determining whether an EIR's discussion of human health impacts is legally sufficient does not constitute imposing a new substantive requirement.[19] Under Friant Ranch's theory, the above-referenced cases holding a CEQA analysis inadequate would have violated the law. This is not a reasonable interpretation.

IV. COURTS MUST SCRUPULOUSLY ENFORCE THE REQUIREMENTS THAT LEAD AGENCIES CONSULT WITH AND OBTAIN COMMENTS FROM AIR DISTRICTS

Courts must "scrupulously enforce" CEQA's legislatively mandated requirements. (*Vineyard Area Citizens, supra*, 40 Cal.4th 412, 435.) Case law has firmly established that lead agencies must consult with the relevant air pollution control district before conducting an initial study, and must provide the districts with notice of the intention to adopt a negative declaration (or EIR). (*Schenck v. County of Sonoma* (2011) 198 Cal.App.4th 949, 958.) As *Schenck* held, neither publishing the notice nor providing it to the State Clearinghouse was a sufficient substitute for sending notice directly to the air district. (*Id.*) Rather, courts "must be satisfied that [administrative] agencies have fully complied with the procedural requirements of CEQA, since only in this way can the important public purposes of CEQA be protected from subversion." *Schenck,* 198 Cal.App.4th at p. 959 (citations omitted).[20]

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[19] We submit that Public Resources Code Section 21083.1 was intended to prevent courts from, for example, holding that an agency must analyze economic impacts of a project where there are no resulting environmental impacts (see CEQA Guidelines § 15131) , or imposing new procedural requirements, such as imposing additional public notice requirements not set forth in CEQA or the Guidelines.

[20] Lead agencies must consult air districts, as public agencies with jurisdiction by law over resources affected by the project, *before* releasing an EIR. (Pub. Resources Code §§ 21104(a); 21153.) Moreover, air

Lead agencies should be aware, therefore, that failure to properly seek and consider input from the relevant air district constitutes legal error which may jeopardize their project approvals. For example, the court in *Fall River Wild Trout Foundation v. County of Shasta,* (1999) 70 Cal.App.4th 482, 492 held that the failure to give notice to a trustee agency (Department of Fish and Game) was prejudicial error requiring reversal. The court explained that the lack of notice prevented the Department from providing any response to the CEQA document. (*Id.* at p. 492.) It therefore prevented relevant information from being presented to the lead agency, which was prejudicial error because it precluded informed decision-making. (*Id.*)[21]

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districts should be considered "state agencies" for purposes of the requirement to consult with "trustee agencies" as set forth in Public Resources Code § 20180.3(a). This Court has long ago held that the districts are not mere "local agencies" whose regulations are superseded by those of a state agency regarding matters of statewide concern, but rather have concurrent jurisdiction over such issues. (*Orange County Air Pollution Control District v. Public Util. Com.* (1971) 4 Cal.3d 945, 951, 954.) Since air pollution is a matter of statewide concern, *Id* at 952, air districts should be entitled to trustee agency status in order to ensure that this vital concern is adequately protected during the CEQA process.

[21] In *Schenck,* the court concluded that failure to give notice to the air district was not prejudicial, but this was partly because the trial court had already corrected the error before the case arrived at the Court of Appeal. The trial court issued a writ of mandate requiring the lead agency to give notice to the air district. The air district responded by concurring with the lead agency that air impacts were not significant. (*Schenck,* 198 Cal.App.4th 949, 960.) We disagree with the *Schenck* court that the failure to give notice to the air district would not have been prejudicial (even in the absence of the trial court writ) merely because the lead agency purported to follow the air district's published CEQA guidelines for significance. (*Id.*, 198 Cal.App.4th at p. 960.) In the first place, absent notice to the air district, it is uncertain whether the lead agency properly followed those guidelines. Moreover, it is not realistic to expect that an air district's published guidelines would necessarily fully address all possible air-quality related issues that can arise with a CEQA project, or that those

Similarly, lead agencies must obtain additional information requested by expert agencies, including those with jurisdiction by law, if that information is necessary to determine a project's impacts. (*Sierra Club v. State Bd. Of Forestry* (1994) 7 Cal.4th 1215, 1236-37.) Approving a project without obtaining that information constitutes a failure to proceed in the manner prescribed by CEQA. (*Id.* at p. 1236.)

Moreover, a lead agency can save significant time and money by consulting with the air district early in the process. For example, the lead agency can learn what the air district recommends as an appropriate analysis on the facts of its case, including what kinds of health impacts analysis may be available, and what models are appropriate for use. This saves the lead agency from the need to do its analysis all over again and possibly needing to recirculate the document after errors are corrected, if new significant impacts are identified. (CEQA Guidelines § 15088.5(a).) At the same time, the air district's expert input can help the lead agency properly determine whether another commenter's request for additional analysis or studies is reasonable or feasible. Finally, the air district can provide input on what mitigation measures would be feasible and effective.

Therefore, we suggest that this Court provide guidance to lead agencies reminding them of the importance of consulting with the relevant air districts regarding these issues. Otherwise, their feasibility decisions may be vulnerable to air district evidence that establishes that there is no substantial evidence to support the lead agency decision not to provide specific analysis. (*See Berkeley Keep Jets Over the Bay, supra,* 91 Cal.App.4th 1344, 1369-1371.)

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guidelines would necessarily be continually modified to reflect new developments. Therefore we believe that, had the trial court not already ordered the lead agency to obtain the air district's views, the failure to give notice would have been prejudicial, as in *Fall River, supra,* 70 Cal.App.4th 482, 492.

CONCLUSION

The SCAQMD respectfully requests this Court *not* to establish a hard-and-fast rule concerning whether CEQA requires a lead agency to correlate identified air quality impacts of a project with resulting health outcomes. Moreover, the question of whether an EIR is "sufficient as an informational document" is a mixed question of fact and law containing two levels of inquiry. Whether a particular proposed analysis is feasible is predominantly a question of fact to be judged by the substantial evidence standard of review. Where the requested analysis is feasible, but the lead agency relies on legal or policy reasons not to provide it, the question of whether the EIR is nevertheless sufficient as an informational document is predominantly a question of law to be judged by the independent judgment standard of review.

Respectfully submitted,

DATED: April 3, 2015

SOUTH COAST AIR QUALITY
MANAGEMENT DISTRICT
KURT R. WIESE, GENERAL COUNSEL
BARBARA BAIRD, CHIEF DEPUTY COUNSEL

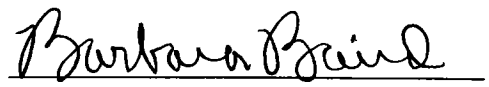
By: Barbara Baird

Barbara Baird
Attorneys for Amicus Curiae
SOUTH COAST AIR QUALITY MANAGEMENT DISTICT

CERTIFICATE OF WORD COUNT

Pursuant to Rule 8.520(c)(1) of the California Rules of Court, I hereby certify that this brief contains 8,476 words, including footnotes, but excluding the Application, Table of Contents, Table of Authorities, Certificate of Service, this Certificate of Word Count, and signature blocks. I have relied on the word count of the Microsoft Word Vista program used to prepare this Certificate.

DATED: April 3, 2015 Respectfully submitted,



Barbara Baird

PROOF OF SERVICE

I am employed in the County of Los Angeles, California. I am over the age of 18 years and not a party to the within action. My business address is 21865 Copley Drive, Diamond Bar, California 91765.

On April 3, 2015 I served true copies of the following document(s) described as **APPLICATION OF THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT FOR LEAVE TO FILE BRIEF OF *AMICUS CURIAE* IN SUPPORT OF NEITHER PARTY AND *[PROPOSED]* BRIEF OF *AMICUS CURIAE*** by placing a true copy of the foregoing document(s) in a sealed envelope addressed as set forth on the attached service list as follows:

BY MAIL: I enclosed the document(s) in a sealed envelope or package addressed to the persons at the addresses listed in the Service List and placed the envelope for collection and mailing following our ordinary business practices. I am readily familiar with this District's practice for collection and processing of correspondence for mailing. Under that practice, the correspondence would be deposited with the United States Postal Service, with postage thereon fully prepaid at Diamond Bar, California, in the ordinary course of business. I am aware that on motion of the party served, service is presumed invalid if postal cancellation date or postage meter date is more than one day after date of deposit for mailing in affidavit.

I declare under penalty of perjury under the laws of the State of California that the foregoing is true and correct.

Executed on April 3, 2015 at Diamond Bar, California.

Patricia Anderson

SERVICE LIST

James G. Moose, Tiffany K. Wright, Laura M. Harris REMY MOOSE MANLEY, LLP 555 Capitol Mall, Suite 800 Sacramento, CA 95814	Attorneys for Real Party in Interest and Respondent *Friant Ranch, L.P.*
Bryan N. Wagner WAGNER & WAGNER 7110 N. Fresno St, Suite 340 Fresno, CA 93720	Attorney for Real Party in Interest and Respondent *Friant Ranch, L.P.*
Sara Hedgpeth-Harris LAW OFFICE OF SARA HEDGPETH-HARRIS 5445 E. Lane Avenue Fresno, CA 93727	Attorney for Plaintiffs and Appellants *Sierra Club, et al*
Daniel C. Cederborg Bruce B. Johnson, Jr. Zachary Stephen Redmond OFFICE OF THE FRESNO COUNTY COUNSEL 2220 Tulare Street, Suite 500 Fresno, CA 93721	Attorneys for Respondents *County of Fresno*

Clerk of the Court
California Court of Appeal
Fifth Appellate District
2424 Ventura Street
Fresno, CA 93721
(via U.S. Mail & Electronic Transmission)

Clerk of the Court
Superior Court of California
County of Fresno
1130 O Street
Fresno, CA 93721

SUPREME COURT COPY

CASE NO. S219783

IN THE SUPREME COURT OF CALIFORNIA

SIERRA CLUB, REVIVE THE SAN JOAQUIN, and
LEAGUE OF WOMEN VOTERS OF FRESNO,
Plaintiffs and Appellants

v.

COUNTY OF FRESNO,
Defendant and Respondent

FRIANT RANCH, L.P.,
Real Party in Interest and Respondent

SUPREME COURT
FILED

APR 13 2015

Frank A. McGuire Clerk

Deputy

After a Decision by the Court of Appeal, filed May 27, 2014
Fifth Appellate District Case No. F066798

Appeal from the Superior Court of California, County of Fresno
Case No. 11CECG00726

APPLICATION FOR LEAVE TO FILE AMICUS CURIAE BRIEF OF SAN JOAQUIN VALLEY UNIFIED AIR POLLUTION CONTROL DISTRICT IN SUPPORT OF DEFENDANT AND RESPONDENT, COUNTY OF FRESNO AND REAL PARTY IN INTEREST AND RESPONDENT, FRIANT RANCH, L.P.

CATHERINE T. REDMOND (State Bar No. 226957)
261 High Street
Duxbury, Massachusetts 02332
Tel. (339) 236-5720
Catherinetredmond22@gmail.com

SAN JOAQUIN VALLEY UNIFIED AIR POLLUTION CONTROL DISTRICT
Annette Ballatore-Williamson, District Counsel (State Bar. No. 192176)
1990 E. Gettysburg Avenue
Fresno, California 93726
Tel. (559) 230-6033
Annette.Ballatore-Williamson@valleyair.org

Counsel for San Joaquin Valley Unified Air Pollution Control District

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CATHERINE T. REDMOND (State Bar No. 226957)
261 High Street
Duxbury, Massachusetts 02332
Tel. (339) 236-5720
Catherinetredmond22@gmail.com

SAN JOAQUIN VALLEY UNIFIED AIR POLLUTION CONTROL DISTRICT
Annette Ballatore-Williamson, District Counsel (State Bar. No. 192176)
1990 E. Gettysburg Avenue
Fresno, California 93726
Tel. (559) 230-6033
Annette.Ballatore-Williamson@valleyair.org

Counsel for San Joaquin Valley Unified Air Pollution Control District

APPLICATION

Pursuant to California Rules of Court 8.520(f)(1), proposed Amicus Curiae San Joaquin Valley Unified Air Pollution Control District hereby requests permission from the Chief Justice to file an amicus brief in support of Defendant and Respondent, County of Fresno, and Defendant and Real Parties in Interest Friant Ranch, L.P. Pursuant to Rule 8.520(f)(5) of the California Rules of Court, the proposed amicus curiae brief is combined with this Application. The brief addresses the following issue certified by this Court for review:

> Is an EIR adequate when it identifies the health impacts of air pollution and quantifies a project's expected emissions, or does CEQA further require the EIR to *correlate* a project's air quality emissions to specific health impacts?

As of the date of this filing, the deadline for the final reply brief on the merits was March 5, 2015. Accordingly, under Rule 8.520(f)(2), this application and brief are timely.

1. Background and Interest of San Joaquin Valley Unified Air Pollution Control District

The San Joaquin Valley Unified Air Pollution Control District ("Air District") regulates air quality in the eight counties comprising the San Joaquin Valley ("Central Valley"): Kern, Tulare, Madera, Fresno, Merced, San Joaquin, Stanislaus, and Kings, and is primarily responsible for attaining air quality standards within its jurisdiction. After billions of dollars of investment by Central Valley businesses, pioneering air quality regulations, and consistent efforts by residents, the Central Valley air basin has made historic improvements in air quality.

The Central Valley's geographical, topographical and meteorological features create exceptionally challenging air quality

conditions. For example, it receives air pollution transported from the San Francisco Bay Area and northern Central Valley communities, and the southern portion of the Central Valley includes three mountain ranges (Sierra, Tehachapi, and Coastal) that, under some meteorological conditions, effectively trap air pollution. Central Valley air pollution is only a fraction of what the Bay Area and Los Angeles produce, but these natural conditions result in air quality conditions that are only marginally better than Los Angeles, even though about ten times more pollution is emitted in the Los Angeles region. Bay Area air quality is much better than the Central Valley's, even though the Bay Area produces about six times more pollution. The Central Valley also receives air pollution transported from the Bay Area and northern counties in the Central Valley, including Sacramento, and transboundary anthropogenic ozone from as far away as China.

Notwithstanding these challenges, the Central Valley has reduced emissions at the same or better rate than other areas in California and has achieved unparalleled milestones in protecting public health and the environment:

- In the last decade, the Central Valley became the first air basin classified by the federal government under the Clean Air Act as a "serious nonattainment" area to come into attainment of health-based National Ambient Air Quality Standard ("NAAQS") for coarse particulate matter (PM10), an achievement made even more notable given the Valley's extensive agricultural sector. Unhealthy levels of particulate matter can cause and exacerbate a range of chronic and acute illnesses.
- In 2013, the Central Valley became the first air basin in the country to improve from a federal designation of "extreme" nonattainment to

actually attain (and quality for an attainment designation) of the 1-hour ozone NAAQS; ozone creates "smog" and, like PM10, causes adverse health impacts.

- The Central Valley also is in full attainment of federal standards for lead, nitrogen dioxide, sulfur dioxide, and carbon monoxide.
- The Central Valley continues to make progress toward compliance with its last two attainment standards, with the number of exceedences for the 8-hour ozone NAAQS reduced by 74% (for the 1997 standard) and 38% (for the 2008 standard) since 1991, and for the small particulate matter (PM2.5) NAAQS reduced by 85% (for the 1997 standard) and 61% (for the 2006 standard).

Sustained improvement in Central Valley air quality requires a rigorous and comprehensive regulatory framework that includes prohibitions (e.g., on wood-burning fireplaces in new residences), mandates (e.g., requiring the installation of best available pollution reduction technologies on new and modified equipment and industrial operations), innovations (e.g., fees assessed against residential development to fund pollution reduction actions to "offset" vehicular emissions associated with new residences), incentive programs (e.g., funding replacements of older, more polluting heavy duty trucks and school buses)[1], ongoing planning for continued air quality improvements, and enforcement of Air District permits and regulations.

The Air District is also an expert air quality agency for the eight counties and cities in the San Joaquin Valley. In that capacity, the Air District has developed air quality emission guidelines for use by the Central

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[1] San Joaquin's incentive program has been so successful that through 2012, it has awarded over $ 432 million in incentive funds and has achieved 93,349 tons of lifetime emissions reductions. *See* SAN JOAQUIN VALLEY AIR POLLUTION CONTROL DISTRICT, 2012 PM2.5 PLAN, 6-6 (2012) *available at* http://www.valleyair.org/Workshops/postings/2012/12-20-12PM25/FinalVersion/06%20Chapter%206%20Incentives.pdf.

Valley counties and cities that implement the California Environment Quality Act (CEQA).[2] In its guidance, the Air District has distinguished between toxic air contaminants and criteria air pollutants.[3] Recognizing this distinction, the Air District's CEQA Guidance has adopted distinct thresholds of significance for *criteria* pollutants (i.e., ozone, PM2.5 and their respective precursor pollutants) based upon scientific and factual data which demonstrates the level that can be accommodated on a cumulative basis in the San Joaquin Valley without affecting the attainment of the applicable NAAQS.[4] For *toxic air* pollutants, the District has adopted different thresholds of significance which scientific and factual data demonstrates has the potential to expose sensitive receptors (i.e., children, the elderly) to levels which may result in localized health impacts.[5]

The Air District's CEQA Guidance was followed by the County of Fresno in its environment review of the Friant Ranch project, for which the Air District also served as a commenting agency. The Court of Appeal's holding, however, requiring correlation between the project's criteria

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[2] *See, e.g.*, SAN JOAQUIN VALLEY AIR POLLUTION CONTROL DISTRICT, PLANNING DIVISION, GUIDE FOR ASSESSING AND MITIGATING AIR QUALITY IMPACTS (2015), *available at* http://www.valleyair.org/transportation/GAMAQI_3-19-15.pdf ("CEQA Guidance").

[3] Toxic air contaminants, also known as hazardous air pollutants, are those pollutants that are known or suspected to cause cancer or other serious health effects, such as birth defects. There are currently 189 toxic air contaminants regulated by the United States Environmental Protection Agency ("EPA") and the states pursuant to the Clean Air Act. 42 U.S.C. § 7412. Common TACs include benzene, perchloroethylene and asbestos. *Id.* at 7412(b).

In contrast, there are only six (6) criteria air pollutants: ozone, particulate matter, carbon monoxide, nitrogen oxides, sulfur dioxide and lead. Although criteria air pollutants can also be harmful to human health, they are distinguishable from toxic air contaminants and are regulated separately. For instance, while criteria pollutants are regulated by numerous sections throughout Title I of the Clean Air Act, the regulation of toxic air contaminants occurs solely under section 112 of the Act. Compare 42 U.S.C. §§ 7407 – 7411 & 7501 – 7515 with 42 U.S.C. § 7411.

[4] See, e.g., CEQA Guidance at http://www.valleyair.org/transportation/GAMAQI_3-19-15.pdf, pp. 64-66, 80.

[5] See, e.g., CEQA Guidance at http://www.valleyair.org/transportation/GAMAQI_3-19-15.pdf, pp. 66, 99-101.

pollutants and local health impacts, departs from the Air District's Guidance and approved methodology for assessing criteria pollutants. A close reading of the administrative record that gave rise to this issue demonstrates that the Court's holding is based on a misunderstanding of the distinction between toxic air contaminants (for which a local health risk assessment is feasible and routinely performed) and criteria air pollutants (for which a local health risk assessment is not feasible and would result in speculative results).[6] The Air District has a direct interest in ensuring the lawfulness and consistent application of its CEQA Guidance, and will explain how the Court of Appeal departed from the Air District's long-standing CEQA Guidance in addressing criteria pollutants and toxic air contaminants in this amicus brief.

2. How the Proposed Amicus Curiae Brief Will Assist the Court

As counsel for the proposed amicus curiae, we have reviewed the briefs filed in this action. In addition to serving as a "commentary agency" for CEQA purposes over the Friant Ranch project, the Air District has a strong interest in assuring that CEQA is used for its intended purpose, and believes that this Court would benefit from additional briefing explaining the distinction between criteria pollutants and toxic air contaminants and the different methodologies employed by local air pollution control agencies such as the Air District to analyze these two categories of air pollutants under CEQA. The Air District will also explain how the Court of Appeal's opinion is based upon a fundamental misunderstanding of these two different approaches by requiring the County of Fresno to correlate the project's *criteria* pollution emissions with *local* health impacts. In doing

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[6] CEQA does not require speculation. *See, e.g.*, *Laurel Heights Improvement Ass'n v. Regents of Univ. of Cal.*, 6 Cal. 4th 1112, 1137 (1993) (upholding EIR that failed to evaluate cumulative toxic air emission increases given absence of any acceptable means for doing so).

so, the Air District will provide helpful analysis to support its position that at least insofar as criteria pollutants are concerned, CEQA does not require an EIR to correlate a project's air quality emissions to specific health impacts, because such an analysis is not reasonably feasible.

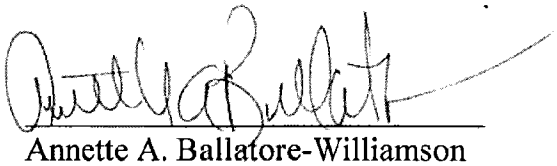
Rule 8.520 Disclosure

Pursuant to Cal. R. 8.520(f)(4), neither the Plaintiffs nor the Defendant or Real Party In Interest or their respective counsel authored this brief in whole or in part. Neither the Plaintiffs nor the Defendant or Real Party in Interest or their respective counsel made any monetary contribution towards or in support of the preparation of this brief.

CONCLUSION

On behalf of the San Joaquin Valley Unified Air Pollution Control District, we respectfully request that this Court accept the filing of the attached brief.

Dated: April 2, 2015



Annette A. Ballatore-Williamson
District Counsel
Attorney for Proposed Amicus Curiae

SAN JOAQUIN VALLEY UNIFIED
AIR POLLUTION CONTROL
DISTRICT

CASE NO. S219783

IN THE SUPREME COURT OF CALIFORNIA

SIERRA CLUB, REVIVE THE SAN JOAQUIN, and
LEAGUE OF WOMEN VOTERS OF FRESNO,
Plaintiffs and Appellants

v.

COUNTY OF FRESNO,
Defendant and Respondent

FRIANT RANCH, L.P.,
Real Party in Interest and Respondent

After a Decision by the Court of Appeal, filed May 27, 2014
Fifth Appellate District Case No. F066798

Appeal from the Superior Court of California, County of Fresno
Case No. 11CECG00726

AMICUS CURIAE BRIEF OF SAN JOAQUIN VALLEY UNIFIED AIR POLLUTION CONTROL DISTRICT IN SUPPORT OF DEFENDANT AND RESPONDENT, COUNTY OF FRESNO AND REAL PARTY IN INTEREST AND RESPONDENT, FRIANT RANCH, L.P.

CATHERINE T. REDMOND (State Bar No. 226957)
261 High Street
Duxbury, Massachusetts 02332
Tel. (339) 236-5720
Catherinetredmond22@gmail.com

SAN JOAQUIN VALLEY UNIFIED AIR POLLUTION CONTROL DISTRICT
Annette A. Ballatore-Williamson, District Counsel (State Bar. No. 192176)
1990 E. Gettysburg Avenue
Fresno, California 93726
Tel. (559) 230-6033
Annette.Ballatore-Williamson@valleyair.org
Counsel for San Joaquin Valley Unified Air Pollution Control District

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I. INTRODUCTION.

The San Joaquin Valley Unified Air Pollution Control District ("Air District") respectfully submits that the Court of Appeal erred when it held that the air quality analysis contained in the Environmental Impact Report ("EIR") for the Friant Ranch development project was inadequate under the California Environmental Quality Act ("CEQA") because it did not include an analysis of the correlation between the project's criteria air pollutants and the potential adverse human health impacts. A close reading of the portion of the administrative record that gave rise to this issue demonstrates that the Court's holding is based on a misunderstanding of the distinction between toxic air contaminants and criteria air pollutants.

Toxic air contaminants, also known as hazardous air pollutants, are those pollutants that are known or suspected to cause cancer or other serious health effects, such as birth defects. There are currently 189 toxic air contaminants (hereinafter referred to as "TACs") regulated by the United States Environmental Protection Agency ("EPA") and the states pursuant to the Clean Air Act. 42 U.S.C. § 7412. Common TACs include benzene, perchloroethylene and asbestos. *Id.* at 7412(b).

In contrast, there are only six (6) criteria air pollutants: ozone, particulate matter, carbon monoxide, nitrogen oxides, sulfur dioxide and lead. Although criteria air pollutants can also be harmful to human health,

they are distinguishable from TACs and are regulated separately. For instance, while criteria pollutants are regulated by numerous sections throughout Title I of the Clean Air Act, the regulation of TACs occurs solely under section 112 of the Act. *Compare* 42 U.S.C. §§ 7407 – 7411 & 7501 – 7515 *with* 42 U.S.C. § 7411.

The most relevant difference between criteria pollutants and TACs for purposes of this case is the manner in which human health impacts are accounted for. While it is common practice to analyze the correlation between an individual facility's TAC emissions and the expected localized human health impacts, such is not the case for criteria pollutants. Instead, the human health impacts associated with criteria air pollutants are analyzed and taken into consideration when EPA sets the national ambient air quality standard ("NAAQS") for each criteria pollutant. 42 U.S.C. § 7409(b)(1). The health impact of a particular criteria pollutant is analyzed on a regional and not a facility level based on how close the area is to complying with (attaining) the NAAQS. Accordingly, while the type of individual facility / health impact analysis that the Court of Appeal has required is a customary practice for TACs, it is not feasible to conduct a similar analysis for criteria air pollutants because currently available computer modeling tools are not equipped for this task.

It is clear from a reading of both the administrative record and the Court of Appeal's decision that the Court did not have the expertise to fully

appreciate the difference between TACs and criteria air pollutants. As a result, the Court has ordered the County of Fresno to conduct an analysis that is not practicable and not likely yield valid information. The Air District respectfully requests that this portion of the Court of Appeal's decision be reversed.

II. THE COURT OF APPEAL ERRED IN FINDING THE FRIANT RANCH EIR INADEQUATE FOR FAILING TO ANALYZE THE SPECIFIC HUMAN HEALTH IMPACTS ASSOCIATED CRITERIA AIR POLLUTANTS.

Although the Air District does not take lightly the amount of air emissions at issue in this case, it submits that the Court of Appeal got it wrong when it required Fresno County to revise the Friant Ranch EIR to include an analysis correlating the criteria air pollutant emissions associated with the project with specific, localized health-impacts. The type of analysis the Court of Appeal has required will not yield reliable information because currently available modeling tools are not well suited for this task. Further, in reviewing this issue de novo, the Court of Appeal failed to appreciate that it lacked the scientific expertise to appreciate the significant differences between a health risk assessment commonly performed for toxic air contaminants and a similar type of analysis it felt should have been conducted for criteria air pollutants.

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A. Currently Available Modeling Tools are not Equipped to Provide a Meaningful Analysis of the Correlation between an Individual Development Project's Air Emissions and Specific Human Health Impacts.

In order to appreciate the problematic nature of the Court of Appeals' decision requiring a health risk type analysis for criteria air pollutants, it is important to understand how the relevant criteria pollutants (ozone and particulate matter) are formed, dispersed and regulated.

Ground level ozone (smog) is not directly emitted into the air, but is formed when precursor pollutants such as oxides of nitrogen (NOx) and volatile organic compounds (VOCs) are emitted into the atmosphere and undergo complex chemical reactions in the process of sunlight.[1] Once formed, ozone can be transported long distances by wind.[2] Because of the complexity of ozone formation, a specific tonnage amount of NOx or VOCs emitted in a particular area does not equate to a particular concentration of ozone in that area. In fact, even rural areas that have relatively low tonnages of emissions of NOx or VOCs can have high levels of ozone concentration simply due to wind transport.[3] Conversely, the San Francisco Bay Area has six times more NOx and VOC emissions per square mile than the San Joaquin Valley, but experiences lower

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[1] *See* United States Environmental Protection Agency, *Ground-level Ozone: Basic Information*, available at: http://www.epa.gov/airquality/ozonepollution/basic.html (visited March 10, 2015).
[2] *Id.*
[3] *Id.*

concentrations of ozone (and better air quality) simply because sea breezes disperse the emissions.[4]

Particulate matter ("PM") can be divided into two categories: directly emitted PM and secondary PM.[5] While directly emitted PM can have a localized impact, the tonnage emitted does not always equate to the local PM concentration because it can be transported long distances by wind.[6] Secondary PM, like ozone, is formed via complex chemical reactions in the atmosphere between precursor chemicals such as sulfur dioxides (SOx) and NOx.[7] Because of the complexity of secondary PM formation, the tonnage of PM-forming precursor emissions in an area does not necessarily result in an equivalent concentration of secondary PM in that area.

The disconnect between the *tonnage* of precursor pollutants (NOx, SOx and VOCs) and the *concentration* of ozone or PM formed is important because it is not necessarily the tonnage of precursor pollutants that causes human health effects, but the concentration of resulting ozone or PM. Indeed, the national ambient air quality standards ("NAAQS"), which are statutorily required to be set by the United States Environmental Protection

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[4] *San Joaquin Valley Air Pollution Control District 2007 Ozone Plan*, Executive Summary p. ES-6, available at: http://www.valleyair.org/Air_Quality_Plans/docs/AQ_Ozone_2007_Adopted/03%20Executive%20Summary.pdf (visited March 10, 2015).
[5] United States Environmental Protection Agency, *Particulate Matter: Basic Information*, available at: http://www.epa.gov/airquality/particlepollution/basic.html (visited March 10, 2015).
[6] *Id.*
[7] *Id.*

Agency ("EPA") at levels that are "requisite to protect the public health," 42 U.S.C. § 7409(b)(1), are established as concentrations of ozone or particulate matter and not as tonnages of their precursor pollutants.[8]

Attainment of a particular NAAQS occurs when the concentration of the relevant pollutant remains below a set threshold on a consistent basis throughout a particular region. For example, the San Joaquin Valley attained the 1-hour ozone NAAQS when ozone concentrations remained at or below 0.124 parts per million Valley-wide on 3 or fewer days over a 3-year period.[9] Because the NAAQS are focused on achieving a particular concentration of pollution region-wide, the Air District's tools and plans for attaining the NAAQS are regional in nature.

For instance, the computer models used to simulate and predict an attainment date for the ozone or particulate matter NAAQS in the San Joaquin Valley are based on regional inputs, such as regional inventories of precursor pollutants (NOx, SOx and VOCs) and the atmospheric chemistry and meteorology of the Valley.[10] At a very basic level, the models simulate future ozone or PM levels based on predicted changes in precursor

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[8] See, e.g., United States Environmental Protection Agency, *Table of National Ambient Air Quality Standards*, available at: http://www.epa.gov/air/criteria.html#3 (visited March 10, 2015).
[9] *San Joaquin Valley Unified Air Pollution Control District 2013 Plan for the Revoked 1-Hour Ozone Standard*, Ch. 2 p. 2-16, available at: http://www.valleyair.org/Air_Quality_Plans/OzoneOneHourPlan2013/02Chapter2ScienceTrendsModeling.pdf (visited March 10, 2015).
[10] *Id.* at Ch. 2 p. 2-19 (visited March 12, 2015); *San Joaquin Valley Unified Air Pollution Control District 2008 PM2.5 Plan*, Appendix F, pp. F-2 – F-5, available at: http://www.valleyair.org/Air_Quality_Plans/docs/AQ_Final_Adopted_PM2.5/20%20Appendix%20F.pdf
(visited March 19, 2015).

emissions Valley wide.[11] Because the NAAQS are set levels necessary to protect human health, the closer a region is to attaining a particular NAAQS, the lower the human health impact is from that pollutant.

The goal of these modeling exercises is not to determine whether the emissions generated by a particular factory or development project will affect the date that the Valley attains the NAAQS. Rather, the Air District's modeling and planning strategy is regional in nature and based on the extent to which *all* of the emission-generating sources in the Valley (current and future) must be controlled in order to reach attainment.[12]

Accordingly, the Air District has based its thresholds of significance for CEQA purposes on the levels that scientific and factual data demonstrate that the Valley can accommodate without affecting the attainment date for the NAAQS.[13] The Air District has tied its CEQA significance thresholds to the level at which stationary pollution sources permitted by the Air District must "offset" their emissions.[14] This "offset"

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[11] *Id.*

[12] Although the Air District does have a dispersion modeling tool used during its air permitting process that is used to predict whether a particular project's directly emitted PM will either cause an exceedance of the PM NAAQS or contribute to an existing exceedance, this model bases the prediction on a worst case scenario of emissions and meteorology and has no provision for predicting any associated human health impacts. Further, this analysis is only performed for stationary sources (factories, oil refineries, etc.) that are required to obtain a New Source Review permit from the Air District and not for development projects such as Friant Ranch over which the Air District has no preconstruction permitting authority. *See* San Joaquin Valley Unified Air Pollution Control District Rule 2201 §§ 2.0; 3.3.9; 4.14.1, available at: http://www.valleyair.org/rules/currntrules/Rule22010411.pdf (visited March 19, 2015).

[13] *San Joaquin Valley Unified Air Pollution Control District Guide to Assessing and Mitigating Air Quality Impacts*, (March 19, 2015) p. 22, available at: http://www.valleyair.org/transportation/CEQA%20Rules/GAMAQI%20Jan%202002%20Rev.pdf (visited March 30, 2015).

[14] *Id.* at pp. 22, 25.

level allows for growth while keeping the cumulative effects of all new sources at a level that will not impede attainment of the NAAQS.[15] In the Valley, these thresholds are 15 tons per year of PM, and 10 tons of NOx or VOC per year. *Sierra Club, supra*, 172 Cal.Rptr.3d at 303; AR 4554. Thus, the CEQA air quality analysis for criteria pollutants is not really a localized, project-level impact analysis but one of regional, "cumulative impacts."

Accordingly, the significance thresholds applied in the Friant Ranch EIR (15 tons per year of PM and 10 tons of NOx or VOCs) are not intended to be indicative of any localized human health impact that the project may have. While the health effects of air pollution are of primary concern to the Air District (indeed, the NAAQS are established to protect human health), the Air District is simply not equipped to analyze whether and to what extent the criteria pollutant emissions of an individual CEQA project directly impact human health in a particular area. This is true even for projects with relatively high levels of emissions of criteria pollutant precursor emissions.

For instance, according to the EIR, the Friant Ranch project is estimated to emit 109.52 tons per year of ROG (VOC), 102.19 tons per year of NOx, and 117.38 tons per year of PM. Although these levels well

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[15] [15] *San Joaquin Valley Unified Air Pollution Control District Environmental Review Guidelines* (Aug. 2000) p. 4-11, available at: http://www.valleyair.org/transportation/CEQA%20Rules/ERG%20Adopted%20_August%202000_.pdf (visited March 12, 2015).

exceed the Air District's CEQA significance thresholds, this does not mean that one can easily determine the concentration of ozone or PM that will be created at or near the Friant Ranch site on a particular day or month of the year, or what specific health impacts will occur. Meteorology, the presence of sunlight, and other complex chemical factors all combine to determine the ultimate concentration and location of ozone or PM. This is especially true for a project like Friant Ranch where most of the criteria pollutant emissions derive not from a single "point source," but from area wide sources (consumer products, paint, etc.) or mobile sources (cars and trucks) driving to, from and around the site.

In addition, it would be extremely difficult to model the impact on NAAQS attainment that the emissions from the Friant Ranch project may have. As discussed above, the currently available modeling tools are equipped to model the impact of *all* emission sources in the Valley on attainment. According to the most recent EPA-approved emission inventory, the NOx inventory for the Valley is for the year 2014 is 458.2 tons per day, or 167,243 tons per year and the VOC (or ROG) inventory is 361.7 tons per day, or 132,020.5 tons per year.[16] Running the photochemical grid model used for predicting ozone attainment with the

[16] *San Joaquin Valley Unified Air Pollution Control District 2007 Ozone Plan*, Appendix B pp. B-6, B-9,
available at:
http://www.valleyair.org/Air_Quality_Plans/docs/AQ_Ozone_2007_Adopted/19%20Appendix%20B%20April%202007.pdf (visited March 12, 2015).

emissions solely from the Friant Ranch project (which equate to less than one-tenth of one percent of the total NOx and VOC in the Valley) is not likely to yield valid information given the relative scale involved.

Finally, even once a model is developed to accurately ascertain local increases in concentrations of photochemical pollutants like ozone and some particulates, it remains impossible, using today's models, to correlate that increase in concentration to a specific health impact. The reason is the same: such models are designed to determine regional, population-wide health impacts, and simply are not accurate when applied at the local level.

For these reasons, it is not the norm for CEQA practitioners, including the Air District, to conduct an analysis of the localized health impacts associated with a project's criteria air pollutant emissions as part of the EIR process. When the accepted scientific method precludes a certain type of analysis, "the court cannot impose a legal standard to the contrary." *Kings County Farm Bureau v. City of Hanford* (1990) 221 Cal.App.3d 692, 717 n. 8. However, that is exactly what the Court of Appeal has done in this case. Its decision upends the way CEQA air quality analysis of criteria pollutants occurs and should be reversed.

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B. The Court of Appeal Improperly Extrapolated a Request for a Health Risk Assessment for Toxic Air Contaminants into a Requirement that the EIR contain an Analysis of Localized Health Impacts Associated with Criteria Air Pollutants.

The Court of Appeal's error in requiring the new health impact analysis for criteria air pollutants clearly stems from a misunderstanding of terms of art commonly used in the air pollution field. More specifically, the Court of Appeal (and Appellants Sierra Club et al.) appear to have confused the health risk analysis ("HRA") performed to determine the health impacts associated with a project's toxic air contaminants ("TACs"), with an analysis correlating a project's criteria air pollutants (ozone, PM and the like) with specific localized health impacts.

The first type of analysis, the HRA, is commonly performed during the Air District's stationary source permitting process for projects that emit TACs and is, thus, incorporated into the CEQA review process. An HRA is a comprehensive analysis to evaluate and predict the dispersion of TACs emitted by a project and the potential for exposure of human populations. It also assesses and quantifies both the individual and population-wide health risks associated with those levels of exposure. There is no similar analysis conducted for criteria air pollutants. Thus, the second type of analysis (required by the Court of Appeal), is not currently part of the Air District's process because, as outlined above, the health risks associated

with exposure to criteria pollutants are evaluated on a regional level based on the region's attainment of the NAAQS.

The root of this confusion between the types of analyses conducted for TACs versus criteria air pollutants appears to stem from a comment that was presented to Fresno County by the City of Fresno during the administrative process.

In its comments on the draft EIR, the City of Fresno (the only party to raise this issue) stated:

> [t]he EIR must disclose the human health related effects of the Project's air pollution impacts. (CEQA Guidelines section 15126.2(a).) The EIR fails completely in this area. The EIR should be revised to disclose and determine the significance of TAC impacts, and of human health risks due to exposure to Project-related air emissions.

(AR 4602.)

In determining that the issue regarding the correlation between the Friant Ranch project's criteria air pollutants and adverse health impacts was adequately exhausted at the administrative level, the Court of Appeal improperly read the first two sentences of the City of Fresno's comment in isolation rather than in the context of the entire comment. *See Sierra Club v. County of Fresno* (2014) 172 Cal.Rptr.3d 271, 306. Although the comment first speaks generally in terms of "human health related effects" and "air pollution," it requests only that the EIR be revised to disclose "the significance of TACs" and the "human health risks due to exposure."

The language of this request in the third sentence of the comment is significant because, to an air pollution practitioner, the language would only have indicated only that a HRA for TACs was requested, and not a separate analysis of the health impacts associated with the project's criteria air pollutants. Fresno County clearly read the comment as a request to perform an HRA for TACs and limited its response accordingly. (AR 4602.)[17] The Air District submits that it would have read the City's comment in the same manner as the County because the City's use of the terms "human health risks" and "TACs" signal that an HRA for TACs is being requested. Indeed, the Air District was also concerned that an HRA be conducted, but understood that it was not possible to conduct such an analysis until the project entered the phase where detailed site specific information, such as the types of emission sources and the proximity of the sources to sensitive receptors became available. (AR 4553.)[18] The City of Fresno was apparently satisfied with the County's discussion of human health risks, as it did not raise the issue again when it commented on the final EIR. (AR 8944 – 8960.)

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[17] Appellants do not challenge the manner in which the County addressed TACs in the EIR. (Appellants' Answer Brief p. 28 fn. 7.)

[18] Appellants rely on the testimony of Air District employee, Dan Barber, as support for their position that the County should have conducted an analysis correlating the project's criteria air pollutant emissions with localized health impacts. (Appellants Answer Brief pp. 10-11; 28.) However, Mr. Barber's testimony simply reinforces the Air District's concern that a risk assessment (HRA) be conducted once the actual details of the project become available. (AR 8863.) As to criteria air pollutants, Mr. Barber's comments are aimed at the Air District's concern about the amount of emissions and the fact that the emissions will make it "more difficult for Fresno County and the Valley to reach attainment which means that the health of Valley residents maybe [sic] adversely impacted." Mr. Barber says nothing about conducting a separate analysis of the localized health impacts the project's emissions may have.

The Court of Appeal's holding, which incorrectly extrapolates a request for an HRA for TACs into a new analysis of the localized health impacts of the project's criteria air pollutants, highlights two additional errors in the Court's decision.

First, the Court of Appeal's holding illustrates why the Court should have applied the deferential substantial evidence standard of review to the issue of whether the EIR's air quality analysis was sufficient. The regulation of air pollution is a technical and complex field and the Court of Appeal lacked the expertise to fully appreciate the difference between TACs and criteria air pollutants and tools available for analyzing each type of pollutant.

Second, it illustrates that the Court likely got it wrong when it held that the issue regarding the criteria pollutant / localized health impact analysis was properly exhausted during the administrative process. In order to preserve an issue for the court, '[t]he "exact issue" must have been presented to the administrative agency....' [Citation.] *Citizens for Responsible Equitable Environmental Development v. City of San Diego*, (2011) 196 Cal.App.4th 515, 527 129 Cal.Rptr.3d 512, 521; *Sierra Club v. City of Orange* (2008) 163 Cal.App.4th 523, 535, 78 Cal.Rptr.3d 1, 13. "'[T]he objections must be sufficiently specific so that the agency has the

opportunity to evaluate and respond to them.' [Citation.]" *Sierra Club v. City of Orange*,163 Cal.App.4th at 536.[19]

As discussed above, the City's comment, while specific enough to request a commonly performed HRA for TACs, provided the County with no notice that it should perform a new type of analysis correlating criteria pollutant tonnages to specific human health effects. Although the parties have not directly addressed the issue of failure to exhaust administrative remedies in their briefs, the Air District submits that the Court should consider how it affects the issues briefed by the parties since "[e]xhaustion of administrative remedies is a jurisdictional prerequisite to maintenance of a CEQA action." *Bakersfield Citizens for Local Control v. City of Bakersfield* (2004) 124 Cal.App.4th 1184, 1199, 22 Cal.Rptr.3d 203.

III. CONCLUSION

For all of the foregoing reasons, the Air District respectfully requests that the portion of the Court of Appeal's decision requiring an analysis correlating the localized human health impacts associated with an individual project's criteria air pollutant emissions be reversed.

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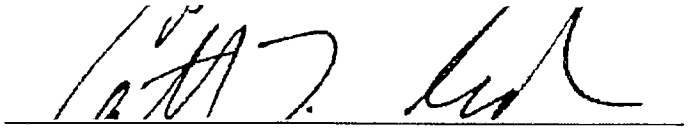
[19] *Sierra Club v. City of Orange*, is illustrative here. In that case, the plaintiffs challenged an EIR approved for a large planned community on the basis that the EIR improperly broke up the various environmental impacts by separate project components or "piecemealed" the analysis in violation of CEQA. In evaluating the defense that the plaintiffs had failed to adequately raise the issue at the administrative level, the Court held that comments such as *"the use of a single document for both a project-level and a program-level EIR [is] 'confusing',"* and *"[t]he lead agency should identify any potential adverse air quality impacts that could occur from all phases of the project and all air pollutant sources related to the project,"* were too vague to fairly raise the argument of piecemealing before the agency. *Sierra Club v. City of Orange*, 163 Cal.App.4th at 537.

correlating the localized human health impacts associated with an individual project's criteria air pollutant emissions be reversed.

Respectfully submitted,

Dated: April 2, 2015



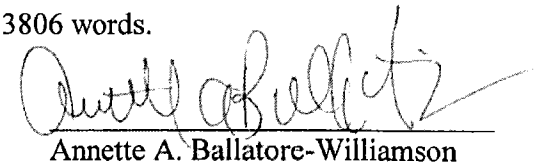
Catherine T. Redmond
Attorney for Proposed Amicus Curiae

SAN JOAQUIN VALLEY
UNIFIED
AIR POLLUTION CONTROL
DISTRICT

CERTIFICATE OF WORD COUNT

Pursuant to Rule 8.204 of the California Rules of Court, I hereby certify that this document, based on the Word County feature of the Microsoft Word software program used to compose and print this document, contains, exclusive of caption, tables, certificate of word count, signature block and certificate of service, 3806 words.

Dated: April 2, 2015



Annette A. Ballatore-Williamson
District Counsel (SBN 192176)

Sierra Club et al, v. County of Fresno, et al
Supreme Court of California Case No.: S219783
Fifth District Court of Appeal Case No.: F066798
Fresno County Superior Court Case No.: 11CECG00726

PROOF OF SERVICE

I am over the age of 18 years and not a p[arty to the above-captioned action; that my business address is San Joaquin Valley Unified Air Pollution Control District located at 1990 E. Gettysburg Avenue, Fresno, California 93726.

On April 2, 2015, I served the document described below:

APPLICATION FOR LEAVE TO FILE AMICUS CURIAE BRIEF OF SAN JOAQUIN VALLEY UNIFIED AIR POLLUTION CONTROL DISTRICT IN SUPPORT OF DEFENDANT AND RESPONDENT, COUNTY OF FRESNO

On all parties to this action at the following addresses and in the following manner:

PLEASE SEE ATTACHED SERVICE LIST

(XX) **(BY MAIL)** I caused a true copy of each document(s) to be laced in a sealed envelope with first-class postage affixed and placed the envelope for collection. Mail is collected daily at my office and placed in a United State Postal Service collection box for pick-up and delivery that same day.

( ) **(BY ELECTRONIC MAIL)** I caused a true and correct scanned image (.PDF file) copy to be transmitted via electronic mail transfer system in place at the San Joaquin Valley Unified Air Pollution Control District ("District"), originating from the undersigned at 1990 E. Gettysburg Avenue, Fresno, CA, to the address(es) indicated below.

( ) **(BY OVERNIGHT MAIL)** I caused a true and correct copy to be delivered via Federal Express to the following person(s) or their representative at the address(es) listed below.

I declare under penalty of perjury under the laws of the State of California that the foregoing is true and correct and that I executed this document on April 2, 2015, at Fresno, California.

Esthela Soto

SERVICE LIST

Sierra Club et al, v. County of Fresno, et al
Supreme Court of California Case No.: S219783
Fifth District Court of Appeal Case No.: F066798
Fresno County Superior Court Case No.: 11CECG00726

Sara Hedgpeth-Harris, Esq. LAW OFFICE OF SARA HEDGPETH-HARRIS 2125 Kern Street, Suite 301 Fresno, California 93721 Telephone: (559) 233-0907 Facsimile: (559) 272-6046 Email: sara.hedgpethharris@shh-law.com	Attorney for Plaintiffs and Appellants, Sierra Club, et al
Daniel C. Cederborg, Esq. Bruce B. Johnson, Jr., Esq. OFFICE OF THE FRESNO COUNTY COUNSEL 2220 Tulare Street, Suite 500 Fresno, California 93721 Telephone: (559) 600-3479 Facsimile: (559) 600-3480 Email: bjohnson@co.fresno.ca.us	Attorneys for Defendant and Respondent, County of Fresno
Bryan N. Wagner, Esq. WAGNER & WAGNER 7110 N. Fresno Street, Suite 340 Fresno, California 93720 Telephone: (559) 224-0871 Facsimile: (559) 224-0885 Email: bryan@wagnerandwagner.com	Attorneys for Real Party in Interest/Respondent Friant Ranch, L.P.
Clerk of the Court Superior Court of California County of Fresno 1130 'O' Street Fresno, California 93721 Telephone: (559) 457-1900	
Clerk of the Court Fifth District Court of Appeal 2424 Ventura Street Fresno, California 93721 Telephone: (559) 445-5491	

R. Tyson Sohagim, Esq. THE SOHAGI LAW GROUP 11999 San Vicente Blvd., Suite 150 Los Angeles, California 90049 Telephone: (310) 475-5700 Facsimile: (310) 475-5707 Email: tsohagi@sohagi.com	Attorney for Amici Curiae; League of California Cities, and the California State Association of Counties
Marcia L. Scully, Esq. General Counsel METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA Post Office Box 54153 Los Angeles, California 90054 Telephone: (213) 217-6115	Attorney for Amicus Curiae, The Metropolitan Water District of Southern CA
Amy Minteer, Esq. CHATEN-BROWN & CARSTENS LLP 2200 Pacific Coast Highway, Suite 318 Hermosa Beach, California 90254 Telephone: (310) 798-2400 Facsimile: (310) 798-2402 Email: ACM@CBCEarthlaw.com	Attorney for Amici Curiae, Association of Irritated Residents, Medical Advocates for Healthy Air, and Coalition for Clean Air
Shanda M. Beltran, Esq. General Counsel BUILDING INDUSTRY LEGAL DEFENSE FOUNDATION 17744 Sky Park Cr., Suite 170 Irvine, California 92614 Telephone: (949) 553-9500 Facsimile: (949) 769-8943 Email: sbeltran@biasc.org	Attorney for Amicus Curiae, Building Industry Legal Defense Foundation
Gene Talmadge, President CALIFORNIA ASSOCIATION OF ENVIRONMENTAL PROFESSIONALS 40747 Baranda Court Palm Desert, California 92260 Telephone: (760) 340-4499 Facsimile: (760) 674-2479	Attorney for Amicus Curiae, California Association of Environmental Professionals
Jennifer L. Hernandez, Esq. HOLLAND & KNIGHT LLP 50 California Street, Suite 2800 San Francisco, California 94111	On behalf of Amicus Curiae, CEQA Research Council

Telephone: (415) 743-6927 Facsimile: (415) 743-6910 Email: Jennifer.hernandez@hklaw.com	

Appendix D

Air Quality Amicus Briefs

S219783

IN THE SUPREME COURT OF C ALIFORNIA

SIERRA CLUB, REVIVE THE SAN JOAQUIN, and
LEAGUE OF WOMEN VOTERS OF FRESNO,

Plaintiffs and Appellants,

v.

COUNTY OF FRESNO,

Defendant and Respondent,

and,

FRIANT RANCH, L.P.,

Real Party in Interest and Respondent.

SUPREME COURT
FILED

APR 13 2015

Frank A. McGuire Clerk

Deputy

After a Published Decision by the Court of Appeal, filed May 27, 2014
Fifth Appellate District Case No. F066798

Appeal from the Superior Court of California, County of Fresno
Case No. 11CECG00726
Honorable Rosendo A. Pena, Jr.

APPLICATION OF THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT FOR LEAVE TO FILE BRIEF OF *AMICUS CURIAE* IN SUPPORT OF NEITHER PARTY AND *[PROPOSED]* BRIEF OF *AMICUS CURIAE*

Kurt R. Wiese, General Counsel (SBN 127251)
*Barbara Baird, Chief Deputy Counsel (SBN 81507)
SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT
21865 Copley Drive, Diamond Bar, CA 91765
Telephone: 909-396-2302; Facsimile: 909-396-2961
Email: bbaird@aqmd.gov
Counsel for [Proposed] Amicus Curiae,
SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT

RECEIVED

APR - 6 2015

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TO THE HONORABLE CHIEF JUSTICE AND JUSTICES OF THE SUPREME COURT:

APPLICATION FOR LEAVE TO FILE *AMICUS CURIAE* BRIEF

Pursuant to Rule 8.520(f) of the California Rules of Court, the South Coast Air Quality Management District (SCAQMD) respectfully requests leave to file the attached *amicus curiae* brief. Because SCAQMD's position differs from that of either party, we request leave to submit this amicus brief in support of neither party.

HOW THIS BRIEF WILL ASSIST THE COURT

SCAQMD's proposed amicus brief takes a position on two of the issues in this case. In both instances, its position differs from that of either party. The issues are:

1) Does the California Environmental Quality Act (CEQA) require an environmental impact report (EIR) to correlate a project's air pollution emissions with specific levels of health impacts?
2) What is the proper standard of review for determining whether an EIR provides sufficient information on the health impacts caused by a project's emission of air pollutants?

This brief will assist the Court by discussing the practical realities of correlating identified air quality impacts with specific health outcomes. In short, CEQA requires agencies to provide detailed information about a project's air quality impacts that is sufficient for the public and decisionmakers to adequately evaluate the project and meaningfully understand its impacts. However, the level of analysis is governed by a rule of reason; CEQA only requires agencies to conduct analysis if it is reasonably feasible to do so.

With regard to health-related air quality impacts, an analysis that correlates a project's air pollution emissions with specific levels of health impacts will be feasible in some cases but not others. Whether it is feasible depends on a variety of factors, including the nature of the project and the nature of the analysis under consideration. The feasibility of analysis may also change over time as air districts and others develop new tools for measuring projects' air quality related health impacts. Because SCAQMD has among the most sophisticated air quality modeling and health impact evaluation capability of any of the air districts in the State, it is uniquely situated to express an opinion on the extent to which the Court should hold that CEQA requires lead agencies to correlate air quality impacts with specific health outcomes.

SCAQMD can also offer a unique perspective on the question of the appropriate standard of review. SCAQMD submits that the proper standard of review for determining whether an EIR is sufficient as an informational document is more nuanced than argued by either party. In our view, this is a mixed question of fact and law. It includes determining whether additional analysis is feasible, which is primarily a factual question that should be reviewed under the substantial evidence standard. However, it also involves determining whether the omission of a particular analysis renders an EIR insufficient to serve CEQA's purpose as a meaningful, informational document. If a lead agency has not determined that a requested analysis is infeasible, it is the court's role to determine whether the EIR nevertheless meets CEQA's purposes, and courts should not defer to the lead agency's conclusions regarding the legal sufficiency of an EIR's analysis. The ultimate question of whether an EIR's analysis is "sufficient" to serve CEQA's informational purposes is predominately a question of law that courts should review de novo.

This brief will explain the rationale for these arguments and may assist the Court in reaching a conclusion that accords proper respect to a lead agency's factual conclusions while maintaining judicial authority over the ultimate question of what level of analysis CEQA requires.

STATEMENT OF INTEREST OF *AMICUS CURIAE*

The SCAQMD is the regional agency primarily responsible for air pollution control in the South Coast Air Basin, which consists of all of Orange County and the non-desert portions of the Los Angeles, Riverside, and San Bernardino Counties. (Health & Saf. Code § 40410; Cal. Code Regs., tit. 17, § 60104.) The SCAQMD participates in the CEQA process in several ways. Sometimes it acts as a lead agency that prepares CEQA documents for projects. Other times it acts as a responsible agency when it has permit authority over some part of a project that is undergoing CEQA review by a different lead agency. Finally, SCAQMD also acts as a commenting agency for CEQA documents that it receives because it is a public agency with jurisdiction by law over natural resources affected by the project.

In all of these capacities, SCAQMD will be affected by the decision in this case. SCAQMD sometimes submits comments requesting that a lead agency perform an additional type of air quality or health impacts analysis. On the other hand, SCAQMD sometimes determines that a particular type of health impact analysis is not feasible or would not produce reliable and informative results. Thus, SCAQMD will be affected by the Court's resolution of the extent to which CEQA requires EIRs to correlate emissions and health impacts, and its resolution of the proper standard of review.

CERTIFICATION REGARDING AUTHORSHIP AND FUNDING

No party or counsel in the pending case authored the proposed amicus curiae brief in whole or in part, or made any monetary contribution intended to fund the preparation or submission of the brief. No person or entity other than the proposed *Amicus Curiae* made any monetary contribution intended to fund the preparation or submission of the brief.

Respectfully submitted,

DATED: April 3, 2015

SOUTH COAST AIR QUALITY
MANAGEMENT DISTRICT
KURT R. WIESE, GENERAL COUNSEL
BARBARA BAIRD, CHIEF DEPUTY COUNSEL

By: Barbara Baird
Barbara Baird
Attorneys for [proposed] Amicus Curiae
SOUTH COAST AIR QUALITY
MANAGEMENT DISTICT

BRIEF OF AMICUS CURIAE

SUMMARY OF ARGUMENT

The South Coast Air Quality Management District (SCAQMD) submits that this Court should not try to establish a hard-and-fast rule concerning whether lead agencies are required to correlate emissions of air pollutants with specific health consequences in their environmental impact reports (EIR). The level of detail required in EIRs is governed by a few, core CEQA (California Environmental Quality Act) principles. As this Court has stated, "[a]n EIR must include detail sufficient to enable those who did not participate in its preparation to understand and to consider meaningfully the issues raised by the proposed project." (*Laurel Heights Improvement Assn. v. Regents of the Univ of Cal.* (1988) 47 Cal.3d 376, 405 ["*Laurel Heights I*"]) Accordingly, "an agency must use its best efforts to find out and disclose all that it reasonably can." (*Vineyard Area Citizens for Responsible Growth, Inc. v. City of Rancho Cordova* (2007) 40 Cal.4th 412, 428 (quoting CEQA Guidelines § 15144)[1].). However, "[a]nalysis of environmental effects need not be exhaustive, but will be judged in light of what is reasonably feasible." (*Association of Irritated Residents v. County of Madera* (2003) 107 Cal.App.4th 1383, 1390; CEQA Guidelines §§ 15151, 15204(a).)

With regard to analysis of air quality related health impacts, EIRs must generally quantify a project's pollutant emissions, but in some cases it is not feasible to correlate these emissions to specific, quantifiable health impacts (e.g., premature mortality; hospital admissions). In such cases, a general description of the adverse health impacts resulting from the pollutants at issue may be sufficient. In other cases, due to the magnitude

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[1] The CEQA Guidelines are found at Cal. Code Regs., tit. 14 §§ 15000, *et seq*.

or nature of the pollution emissions, as well as the specificity of the project involved, it may be feasible to quantify health impacts. Or there may be a less exacting, but still meaningful analysis of health impacts that can feasibly be performed. In these instances, agencies should disclose those impacts.

SCAQMD also submits that whether or not an EIR complies with CEQA's informational mandates by providing sufficient, feasible analysis is a mixed question of fact and law. Pertinent here, the question of whether an EIR's discussion of health impacts from air pollution is sufficient to allow the public to understand and consider meaningfully the issues involves two inquiries: (1) Is it feasible to provide the information or analysis that a commenter is requesting or a petitioner is arguing should be required?; and (2) Even if it is feasible, is the agency relying on other policy or legal considerations to justify not preparing the requested analysis? The first question of whether an analysis is feasible is primarily a question of fact that should be judged by the substantial evidence standard. The second inquiry involves evaluating CEQA's information disclosure purposes against the asserted reasons to not perform the requested analysis. For example, an agency might believe that its EIR meets CEQA's informational disclosure standards even without a particular analysis, and therefore choose not to conduct that analysis. SCAQMD submits that this is more of a legal question, which should be reviewed de novo as a question of law.

ARGUMENT

I. RELEVANT FACTUAL AND LEGAL FRAMEWORK.

A. Air Quality Regulatory Background

The South Coast Air Quality Management District (SCAQMD) is one of the local and regional air pollution control districts and air quality

management districts in California. The SCAQMD is the regional air pollution agency for the South Coast Air Basin, which consists of all of Orange County and the non-desert portions of Los Angeles, Riverside, and San Bernardino Counties. (Health & Saf. Code § 40410, 17 Cal. Code Reg. § 60104.) The SCAQMD also includes the Coachella Valley in Riverside County (Palm Springs area to the Salton Sea). (SCAQMD, *Final 2012 AQMP (Feb. 2013)*, http://www.aqmd.gov/home/library/clean-air-plans/air-quality-mgt-plan/final-2012-air-quality-management-plan; then follow "chapter 7" hyperlink; pp 7-1, 7-3 (last visited Apr. 1, 2015).) The SCAQMD's jurisdiction includes over 16 million residents and has the worst or nearly the worst air pollution levels in the country for ozone and fine particulate matter. (SCAQMD, *Final 2012 AQMP (Feb. 2013)*, http://www.aqmd.gov/home/library/clean-air-plans/air-quality-mgt-plan/final-2012-air-quality-management-plan; then follow "Executive Summary" hyperlink p. ES-1 (last visited Apr. 1, 2015).)

Under California law, the local and regional districts are primarily responsible for controlling air pollution from all sources except motor vehicles. (Health & Saf. Code § 40000.) The California Air Resources Board (CARB), part of the California Environmental Protection Agency, is primarily responsible for controlling pollution from motor vehicles. (*Id.*) The air districts must adopt rules to achieve and maintain the state and federal ambient air quality standards within their jurisdictions. (Health & Saf. Code § 40001.)

The federal Clean Air Act (CAA) requires the United States Environmental Protection Agency (EPA) to identify pollutants that are widely distributed and pose a threat to human health, developing a so-called "criteria" document. (42 U.S.C. § 7408; CAA § 108.) These pollutants are frequently called "criteria pollutants." EPA must then establish "national ambient air quality standards" at levels "requisite to protect public health",

allowing "an adequate margin of safety." (42 U.S.C. § 7409; CAA § 109.) EPA has set standards for six identified pollutants: ozone, nitrogen dioxide, sulfur dioxide, carbon monoxide, particulate matter (PM), and lead. (U.S. EPA, National Ambient Air Quality Standards (NAAQS), http://www.epa.gov/air/criteria.html (last updated Oct. 21, 2014).)[2]

Under the Clean Air Act, EPA sets emission standards for motor vehicles and "nonroad engines" (mobile farm and construction equipment, marine vessels, locomotives, aircraft, etc.). (42 U.S.C. §§ 7521, 7547; CAA §§ 202, 213.) California is the only state allowed to establish emission standards for motor vehicles and most nonroad sources; however, it may only do so with EPA's approval. (42 U.S.C. §§ 7543(b), 7543(e); CAA §§ 209(b), 209(c).) Sources such as manufacturing facilities, power plants and refineries that are not mobile are often referred to as "stationary sources." The Clean Air Act charges state and local agencies with the primary responsibility to attain the national ambient air quality standards. (42 U.S.C. § 7401(a)(3); CAA § 101(a)(3).) Each state must adopt and implement a plan including enforceable measures to achieve and maintain the national ambient air quality standards. (42 U.S.C. § 7410; CAA § 110.) The SCAQMD and CARB jointly prepare portion of the plan for the South Coast Air Basin and submit it for approval by EPA. (Health & Saf. Code §§ 40460, et seq.)

The Clean Air Act also requires state and local agencies to adopt a permit program requiring, among other things, that new or modified "major" stationary sources use technology to achieve the "lowest achievable emission rate," and to control minor stationary sources as

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[2] Particulate matter (PM) is further divided into two categories: fine particulate or $PM_{2.5}$ (particles with a diameter of less than or equal to 2.5 microns) and coarse particulate (PM_{10}) (particles with a diameter of 10 microns or less). (U.S. EPA, Particulate Matter (PM), http://www.epa.gov/airquality/particlepollution/ (last visited Apr. 1, 2015).)

needed to help attain the standards. (42 U.S.C. §§ 7502(c)(5), 7503(a)(2), 7410(a)(2)(C); CAA §§ 172(c)(5), 173(a)(2), 110(a)(2)(C).) The air districts implement these permit programs in California. (Health & Saf. Code §§ 42300, et seq.)

The Clean Air Act also sets out a regulatory structure for over 100 so-called "hazardous air pollutants" calling for EPA to establish "maximum achievable control technology" (MACT) for sources of these pollutants. (42 U.S.C. § 7412(d)(2); CAA § 112(d)(2).) California refers to these pollutants as "toxic air contaminants" (TACs) which are subject to two state-required programs. The first program requires "air toxics control measures" for specific categories of sources. (Health & Saf. Code § 39666.) The other program requires larger stationary sources and sources identified by air districts to prepare "health risk assessments" for impacts of toxic air contaminants. (Health & Saf. Code §§ 44320(b), 44322, 44360.) If the health risk exceeds levels identified by the district as "significant," the facility must implement a "risk reduction plan" to bring its risk levels below "significant" levels. Air districts may adopt additional more stringent requirements than those required by state law, including requirements for toxic air contaminants. (Health & Saf. Code § 41508; *Western Oil & Gas Assn. v. Monterey Bay Unified APCD* (1989) 49 Cal.3d 408, 414.) For example, SCAQMD has adopted a rule requiring new or modified sources to keep their risks below specified levels and use best available control technology (BACT) for toxics. (SCAQMD, *Rule 1401-New Source Review of Toxic Air Contaminants*, http://www.aqmd.gov/home/regulations/rules/scaqmd-rule-book/regulation-xiv; then follow "Rule 1401" hyperlink (last visited Apr. 1, 2015).)

B. The SCAQMD's Role Under CEQA

The California Environmental Quality Act (CEQA) requires public agencies to perform an environmental review and appropriate analysis for projects that they implement or approve. (Pub. Resources Code § 21080(a).) The agency with primary approval authority for a particular project is generally the "lead agency" that prepares the appropriate CEQA document. (CEQA Guidelines §§ 15050, 15051.) Other agencies having a subsequent approval authority over all or part of a project are called "responsible" agencies that must determine whether the CEQA document is adequate for their use. (CEQA Guidelines §§ 15096(c), 15381.) Lead agencies must also consult with and circulate their environmental impact reports to "trustee agencies" and agencies "with jurisdiction by law" including "authority over resources which may be affected by the project." (Pub. Resources Code §§ 21104(a), 21153; CEQA Guidelines §§ 15086(a)(3), 15073(c).) The SCAQMD has a role in all these aspects of CEQA.

Fulfilling its responsibilities to implement its air quality plan and adopt rules to attain the national ambient air quality standards, SCAQMD adopts a dozen or more rules each year to require pollution reductions from a wide variety of sources. The SCAQMD staff evaluates each rule for any adverse environmental impact and prepares the appropriate CEQA document. Although most rules reduce air emissions, they may have secondary environmental impacts such as use of water or energy or disposal of waste—e.g., spent catalyst from control equipment.[3]

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[3] The SCAQMD's CEQA program for its rules is a "Certified Regulatory Program" under which it prepares a "functionally equivalent" document in lieu of a negative declaration or EIR. (Pub. Resources Code § 21080.5, CEQA Guidelines § 15251(l).)

The SCAQMD also approves a large number of permits every year to construct new, modified, or replacement facilities that emit regulated air pollutants. The majority of these air pollutant sources have already been included in an earlier CEQA evaluation for a larger project, are currently being evaluated by a local government as lead agency, or qualify for an exemption. However, the SCAQMD sometimes acts as lead agency for major projects where the local government does not have a discretionary approval. In such cases, SCAQMD prepares and certifies a negative declaration or environmental impact report (EIR) as appropriate.[4] SCAQMD evaluates perhaps a dozen such permit projects under CEQA each year. SCAQMD is often also a "responsible agency" for many projects since it must issue a permit for part of the projects (e.g., a boiler used to provide heat in a commercial building). For permit projects evaluated by another lead agency under CEQA, SCAQMD has the right to determine that the CEQA document is inadequate for its purposes as a responsible agency, but it may not do so because its permit program already requires all permitted sources to use the best available air pollution control technology. (SCAQMD, *Rule 1303(a)(1) – Requirements*, http://www.aqmd.gov/home/regulations/rules/scaqmd-rule-book/regulation-xiii; then follow "Rule 1303" hyperlink (last visited Apr. 1, 2015).)

Finally, SCAQMD receives as many as 60 or more CEQA documents each month (around 500 per year) in its role as commenting agency or an agency with "jurisdiction by law" over air quality—a natural resource affected by the project. (Pub. Resources Code §§ 21104(a), 21153; CEQA Guidelines § 15366(a)(3).) The SCAQMD staff provides comments on as many as 25 or 30 such documents each month.

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[4] The SCAQMD's permit projects are not included in its Certified Regulatory Program, and are evaluated under the traditional local government CEQA analysis. (Pub. Resources Code §§ 21150-21154.)

(SCAQMD Governing Board Agenda, Apr. 3, 2015, Agenda Item 16, Attachment A, http://www.aqmd.gov/home/library/meeting-agendas-minutes/agenda?title=governing-board-meeting-agenda-april-3-2015; then follow "16. Lead Agency Projects and Environmental Documents Received by SCAQMD" hyperlink (last visited Apr. 1, 2015).) Of course, SCAQMD focuses its commenting efforts on the more significant projects.

Typically, SCAQMD comments on the adequacy of air quality analysis, appropriateness of assumptions and methodology, and completeness of the recommended air quality mitigation measures. Staff may comment on the need to prepare a health risk assessment detailing the projected cancer and noncancer risks from toxic air contaminants resulting from the project, particularly the impacts of diesel particulate matter, which CARB has identified as a toxic air contaminant based on its carcinogenic effects. (California Air Resources Board, Resolution 98-35, Aug. 27, 1998, http://www.arb.ca.gov/regact/diesltac/diesltac.htm; then follow Resolution 98-35 hyperlink (last visited Apr. 1, 2015).) Because SCAQMD already requires new or modified stationary sources of toxic air contaminants to use the best available control technology for toxics and to keep their risks below specified levels, (SCAQMD Rule 1401, supra, note 15), the greatest opportunity to further mitigate toxic impacts through the CEQA process is by reducing emissions—particularly diesel emissions—from vehicles.

II. THIS COURT SHOULD NOT SET A HARD-AND-FAST RULE CONCERNING THE EXTENT TO WHICH AN EIR MUST CORRELATE A PROJECT'S EMISSION OF POLLUTANTS WITH RESULTING HEALTH IMPACTS.

Numerous cases hold that courts do not review the correctness of an EIR's conclusions but rather its sufficiency as an informative document. (*Laurel Heights 1*, *supra*, 47 Cal.3d at p. 392; *Citizens of Goleta Valley v.*

Bd. of Supervisors (1990) 52 Cal.3d 553, 569; *Bakersfield Citizens for Local Control v. City of Bakersfield* (2004) 124 Cal.App.4th 1184, 1197.)

As stated by the Court of Appeal in this case, where an EIR has addressed a topic, but the petitioner claims that the information provided about that topic is insufficient, courts must "draw[] a line that divides *sufficient* discussions from those that are *insufficient*." (*Sierra Club v. County of Fresno* (2014) 226 Cal.App.4th 704 (superseded by grant of review) 172 Cal.Rptr.3d 271, 290.) The Court of Appeal readily admitted that "[t]he terms themselves – sufficient and insufficient – provide little, if any, guidance as to where the line should be drawn. They are simply labels applied once the court has completed its analysis." (*Id.*)

The CEQA Guidelines, however, provide guidance regarding what constitutes a sufficient discussion of impacts. Section 15151 states that "the sufficiency of an EIR is to be reviewed in light of what is reasonably feasible." Case law reflects this: "Analysis of environmental effects need not be exhaustive, but will be judged in light of what was reasonably feasible." (*Association of Irritated Residents v. County of Madera, supra,* 107 Cal.App.4th at p. 1390; see also CEQA Guidelines § 15204(a).)

Applying this test, this Court cannot realistically establish a hard-and-fast rule that an analysis correlating air pollution impacts of a project to quantified resulting health impacts is always required, or indeed that it is never required. Simply put, in some cases such an analysis will be "feasible"; in some cases it will not.

For example, air pollution control districts often require a proposed new source of toxic air contaminants to prepare a "health risk assessment" before issuing a permit to construct. District rules often limit the allowable cancer risk the new source may cause to the "maximally exposed individual" (worker and residence exposures). (*See, e.g.*, SCAQMD Rule 1401(c)(8); 1401(d)(1), *supra* note 15.) In order to perform this analysis, it

is necessary to have data regarding the sources and types of air toxic contaminants, location of emission points, velocity of emissions, the meteorology and topography of the area, and the location of receptors (worker and residence). (SCAQMD, *Supplemental Guidelines for Preparing Risk Assessments for the Air Toxics "Hot Spots" Information and Assessment Act (AB2588), pp. 11-16*; (last visited Apr. 1, 2015) http://www.aqmd.gov/home/library/documents-support-material; "Guidelines" hyperlink; AB2588; then follow AB2588 Risk Assessment Guidelines hyperlink.)

Thus, it is feasible to determine the health risk posed by a new gas station locating at an intersection in a mixed use area, where receptor locations are known. On the other hand, it may not be feasible to perform a health risk assessment for airborne toxics that will be emitted by a generic industrial building that was built on "speculation" (i.e., without knowing the future tenant(s)). Even where a health risk assessment can be prepared, however, the resulting maximum health risk value is only a calculation of risk—it does not necessarily mean anyone will contract cancer as a result of the project.

In order to find the "cancer burden" or expected additional cases of cancer resulting from the project, it is also necessary to know the numbers and location of individuals living within the "zone of impact" of the project: i.e., those living in areas where the projected cancer risk from the project exceeds one in a million. (SCAQMD, Health Risk Assessment Summary form, http://www.aqmd.gov/home/forms ; filter by "AB2588" category; then "Health Risk Assessment" hyperlink (last visited Apr. 1, 2015).) The affected population is divided into bands of those exposed to at least 1 in a million risk, those exposed to at least 10 in a million risk, etc. up to those exposed at the highest levels. (*Id.*) This data allows agencies to calculate an approximate number of additional cancer cases expected from

the project. However, it is not possible to predict which particular individuals will be affected.

For the so-called criteria pollutants[5], such as ozone, it may be more difficult to quantify health impacts. Ozone is formed in the atmosphere from the chemical reaction of the nitrogen oxides (NO_x) and volatile organic compounds (VOC) in the presence of sunlight. (U.S. EPA, Ground Level Ozone, http://www.epa.gov/airquality/ozonepollution/ (last updated Mar. 25, 2015).) It takes time and the influence of meteorological conditions for these reactions to occur, so ozone may be formed at a distance downwind from the sources. (U.S. EPA, *Guideline on Ozone Monitoring Site Selection* (Aug. 1998) EPA-454/R-98-002 § 5.1.2, http://www.epa.gov/ttnamti1/archive/cpreldoc.html (last visited Apr. 1, 2015).) NO_x and VOC are known as "precursors" of ozone.

Scientifically, health effects from ozone are correlated with increases in the ambient level of ozone in the air a person breathes. (U.S. EPA, *Health Effects of Ozone in the General Population,* Figure 9, http://www.epa.gov/apti/ozonehealth/population.html#levels (last visited Apr. 1, 2015).) However, it takes a large amount of additional precursor emissions to cause a modeled increase in ambient ozone levels over an entire region. For example, the SCAQMD's 2012 AQMP showed that reducing NO_x by 432 tons per day (157,680 tons/year) and reducing VOC by 187 tons per day (68,255 tons/year) would reduce ozone levels at the SCAQMD's monitor site with the highest levels by only 9 parts per billion. (South Coast Air Quality Management District, *Final 2012 AQMP (February 2013)*, http://www.aqmd.gov/home/library/clean-air-plans/air-quality-mgt-plan/final-2012-air-quality-management-plan; then follow "Appendix V: Modeling & Attainment Demonstrations" hyperlink,

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[5] See discussion of types of pollutants, supra, Part I.A.

pp. v-4-2, v-7-4, v-7-24.) SCAQMD staff does not currently know of a way to accurately quantify ozone-related health impacts caused by NO_x or VOC emissions from relatively small projects.

On the other hand, this type of analysis may be feasible for projects on a regional scale with very high emissions of NO_x and VOCs, where impacts are regional. For example, in 2011 the SCAQMD performed a health impact analysis in its CEQA document for proposed Rule 1315, which authorized various newly-permitted sources to use offsets from the districts "internal bank" of emission reductions. This CEQA analysis accounted for essentially *all* the increases in emissions due to new or modified sources in the District between 2010 and 2030.[6] The SCAQMD was able to correlate this very large emissions increase (e.g., 6,620 pounds per day NO_x (1,208 tons per year), 89,180 pounds per day VOC (16,275 tons per year)) to expected health outcomes from ozone and particulate matter (e.g., 20 premature deaths per year and 89,947 school absences in the year 2030 due to ozone).[7] (SCAQMD Governing Board Agenda, February 4, 2011, Agenda Item 26, *Assessment for: Re-adoption of Proposed Rule 1315 – Federal New Source Review Tracking System* (see hyperlink in fn 6) at p. 4.1-35, Table 4.1-29.)

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[6] (SCAQMD Governing Board Agenda, February 4, 2011, Agenda Item 26, Attachment G, *Assessment for: Re-adoption of Proposed Rule 1315 – Federal New Source Review Tracking System, Vol. 1, p.4.0-6*, http://www.aqmd.gov/home/library/meeting-agendas-minutes/agenda?title=governing-board-meeting-agenda-february-4-2011; the follow "26. Adopt Proposed Rule 1315 – Federal New Source Review Tracking System" (last visited April 1, 2015).)

[7] The SCAQMD was able to establish the location of future NO_x and VOC emissions by assuming that new projects would be built in the same locations and proportions as existing stationary sources. This CEQA document was upheld by the Los Angeles County Superior Court in *Natural Res. Def. Council v SCAQMD*, Los Angeles Superior Court No. BS110792).

However, a project emitting only 10 tons per year of NO_x or VOC is small enough that its regional impact on ambient ozone levels may not be detected in the regional air quality models that are currently used to determine ozone levels. Thus, in this case it would not be feasible to directly correlate project emissions of VOC or NO_x with specific health impacts from ozone. This is in part because ozone formation is not linearly related to emissions. Ozone impacts vary depending on the location of the emissions, the location of other precursor emissions, meteorology and seasonal impacts, and because ozone is formed some time later and downwind from the actual emission. (EPA Guideline on Ozone Monitoring Site Selection (Aug. 1998) EPA-454/R-98-002, § 5.1.2; https://www.epa.gov/ttnamti1/archive/cpreldoc.html; then search "Guideline on Ozone Monitoring Site Selection" click on pdf) (last viewed Apr. 1, 2015).)

SCAQMD has set its CEQA "significance" threshold for NO_x and VOC at 10 tons per year (expressed as 55 lb/day). (SCAQMD, *Air Quality Analysis Handbook*, http://www.aqmd.gov/home/regulations/ceqa/air-quality-analysis-handbook; then follow "SCAQMD Air Quality Significance Thresholds" hyperlink (last visited Apr. 1, 2015).) This is because the federal Clean Air Act defines a "major" stationary source for "extreme" ozone nonattainment areas such as SCAQMD as one emitting 10 tons/year. (42 U.S.C. §§ 7511a(e), 7511a(f); CAA §§ 182(e), 182(f).) Under the Clean Air Act, such sources are subject to enhanced control requirements (42 U.S.C. §§ 7502(c)(5), 7503; CAA §§ 172(c)(5), 173), so SCAQMD decided this was an appropriate threshold for making a CEQA "significance" finding and requiring feasible mitigation. Essentially, SCAQMD takes the position that a source that emits 10 tons/year of NO_x or VOC would contribute cumulatively to ozone formation. Therefore, lead agencies that use SCAQMD's thresholds of significance may determine

that many projects have "significant" air quality impacts and must apply all feasible mitigation measures, yet will not be able to precisely correlate the project to quantifiable health impacts, unless the emissions are sufficiently high to use a regional modeling program.

In the case of particulate matter ($PM_{2.5}$)[8], another "criteria" pollutant, SCAQMD staff is aware of two possible methods of analysis. SCAQMD used regional modeling to predict expected health impacts from its proposed Rule 1315, as mentioned above. Also, the California Air Resources Board (CARB) has developed a methodology that can predict expected mortality (premature deaths) from large amounts of $PM_{2.5}$. (California Air Resources Board, *Health Impacts Analysis: PM Premature Death Relationship*, http://www.arb.ca.gov/research/health/pm-mort/pm-mort_arch.htm (last reviewed Jan. 19, 2012).) SCAQMD used the CARB methodology to predict impacts from three very large power plants (e.g., 731-1837 lbs/day). (Final Environmental Assessment for Rule 1315, *supra*, pp 4.0-12, 4.1-13, 4.1-37 (e.g., 125 premature deaths in the entire SCAQMD in 2030), 4.1-39 (0.05 to 1.77 annual premature deaths from power plants.) Again, this project involved large amounts of additional $PM_{2.5}$ in the District, up to 2.82 tons/day (5,650 lbs/day of $PM_{2.5}$, or, or 1029 tons/year. (*Id.* at table 4.1-4, p. 4.1-10.)

However, the primary author of the CARB methodology has reported that this $PM_{2.5}$ health impact methodology is not suited for small projects and may yield unreliable results due to various uncertainties.[9] (SCAQMD, *Final Subsequent Mitigated Negative Declaration for: Warren*

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[8] SCAQMD has not attained the latest annual or 24-hour national ambient air quality standards for "$PM_{2.5}$" or particulate matter less than 2.5 microns in diameter.

[9] Among these uncertainties are the representativeness of the population used in the methodology, and the specific source of PM and the corresponding health impacts. (*Id.* at p. 2-24.)

E&P, Inc. WTU Central Facility, New Equipment Project (certified July 19, 2011), http://www.aqmd.gov/home/library/documents-support-material/lead-agency-permit-projects/permit-project-documents---year-2011; then follow "Final Subsequent Mitigated Negative Declaration for Warren E&P Inc. WTU Central Facility, New Equipment Project" hyperlink, pp. 2-22, 2-23 (last visited Apr. 1, 2015).) Therefore, when SCAQMD prepared a CEQA document for the expansion of an existing oil production facility, with very small $PM_{2.5}$ increases (3.8 lb/day) and a very small affected population, staff elected not to use the CARB methodology for using estimated $PM_{2.5}$ emissions to derive a projected premature mortality number and explained why it would be inappropriate to do so. (*Id.* at pp 2-22 to 2-24.) SCAQMD staff concluded that use of this methodology for such a small source could result in unreliable findings and would not provide meaningful information. (*Id.* at pp. 2-23, 2-25.) This CEQA document was not challenged in court.

In the above case, while it may have been technically possible to plug the data into the methodology, the results would not have been reliable or meaningful. SCAQMD believes that an agency should not be required to perform analyses that do not produce reliable or meaningful results. This Court has already held that an agency may decline to use even the "normal" "existing conditions" CEQA baseline where to do so would be misleading or without informational value. (*Neighbors for Smart Rail v. Exposition Metro Line* (2013) 57 Cal.4th 439, 448, 457.) The same should be true for a decision that a particular study or analysis would not provide reliable or meaningful results.[10]

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[10] Whether a particular study would result in "informational value" is a part of deciding whether it is "feasible." CEQA defines "feasible" as "capable of being accomplished in a successful manner within a reasonable period of time, taking into account economic, environmental, social, and

Therefore, it is not possible to set a hard-and-fast rule on whether a correlation of air quality impacts with specific quantifiable health impacts is required in all cases. Instead, the result turns on whether such an analysis is reasonably feasible in the particular case.[11] Moreover, what is reasonably feasible may change over time as scientists and regulatory agencies continually seek to improve their ability to predict health impacts. For example, CARB staff has been directed by its Governing Board to reassess and improve the methodology for estimating premature deaths. (California Air Resources Board, *Health Impacts Analysis: PM Mortality Relationship*, http://www.arb.ca.gov/research/health/pm-mort/pm-mort.htm (last reviewed Dec. 29, 2010).) This factor also counsels against setting any hard-and-fast rule in this case.

III. THE QUESTION OF WHETHER AN EIR CONTAINS SUFFICIENT ANALYSIS TO MEET CEQA'S REQUIREMENTS IS A MIXED QUESTION OF FACT AND LAW GOVERNED BY TWO DIFFERENT STANDARDS OF REVIEW.

A. Standard of Review for Feasibility Determination and Sufficiency as an Informative Document

A second issue in this case is whether courts should review an EIR's informational sufficiency under the "substantial evidence" test as argued by Friant Ranch or the "independent judgment" test as argued by Sierra Club.

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technological factors." (Pub. Resources Code § 21061.1.) A study cannot be "accomplished in a *successful* manner" if it produces unreliable or misleading results.

[11] In this case, the lead agency did not have an opportunity to determine whether the requested analysis was feasible because the comment was non-specific. Therefore, SCAQMD suggests that this Court, after resolving the legal issues in the case, direct the Court of Appeal to remand the case to the lead agency for a determination of whether the requested analysis is feasible. Because Fresno County, the lead agency, did not seek review in this Court, it seems likely that the County has concluded that at least some level of correlation of air pollution with health impacts is feasible.

As this Court has explained, "a reviewing court must adjust its scrutiny to the nature of the alleged defect, depending on whether the claim is predominantly one of improper procedure or a dispute over the facts." (*Vineyard Area Citizens v. City of Rancho Cordova, supra,* 40 Cal.4th at 435.) For questions regarding compliance with proper procedure or other legal questions, courts review an agency's action de novo under the "independent judgment" test. (*Id.*) On the other hand, courts review factual disputes only for substantial evidence, thereby "accord[ing] greater deference to the agency's substantive factual conclusions." (*Id.*)

Here, Friant Ranch and Sierra Club agree that the case involves the question of whether an EIR includes sufficient information regarding a project's impacts. However, they disagree on the proper standard of review for answering this question: Sierra Club contends that courts use the independent judgment standard to determine whether an EIR's analysis is sufficient to meet CEQA's informational purposes,[12] while Friant Ranch contends that the substantial evidence standard applies to this question.

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[12] Sierra Club acknowledges that courts use the substantial evidence standard when reviewing predicate factual issues, but argues that courts ultimately decide as a matter of law what CEQA requires. (Answering Brief, pp. 14, 23.)

SCAQMD submits that the issue is more nuanced than either party contends. We submit that, whether a CEQA document includes sufficient analysis to satisfy CEQA's informational mandates is a mixed question of fact and law,[13] containing two levels of inquiry that should be judged by different standards.[14]

The state CEQA Guidelines set forth standards for the adequacy of environmental analysis. Guidelines Section 15151 states:

> An EIR should be prepared with a sufficient degree of analysis to provide decision makers with information which enables them to make a decision which intelligently takes account of environmental consequences. An evaluation of the environmental effects of a proposed project need not be exhaustive, but the sufficiency of an EIR is to be reviewed in light of what is reasonably feasible. Disagreement among experts does not make an EIR inadequate, but the EIR should summarize the main points of disagreement among the experts. The courts have looked not for perfection, but for adequacy, completeness, and a good-faith effort at full disclosure.

In this case, the basic question is whether the underlying analysis of air quality impacts made the EIR "sufficient" as an informative document. However, whether the EIR's analysis was sufficient is judged in light of what was reasonably feasible. This represents a mixed question of fact and law that is governed by two different standards of review.

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[13] Friant Ranch actually states that the claim that an EIR lacks sufficient relevant information is, "most properly thought of as raising mixed questions of fact and law." (Opening Brief, p. 27.) However, the remainder of its argument claims that the court should apply the substantial evidence standard of review to all aspects of the issue.

[14] Mixed questions of fact and law issues may implicate predominantly factual subordinate questions that are reviewed under the substantial evidence test even though the ultimate question may be reviewed by the independent judgment test. *Crocker National Bank v. City and County of San Francisco* (1989) 49 Cal.3d 881, 888-889.

SCAQMD submits that an EIR's sufficiency as an informational document is ultimately a legal question that courts should determine using their independent judgment. This Court's language in *Laurel Heights I* supports this position. As this Court explained: "The court does not pass upon the correctness of the EIR's environmental conclusions, but only upon its *sufficiency as an informative document*." (*Laurel Heights I, supra*, 47 Cal.3d at 392-393) (emphasis added.) As described above, the Court in *Vineyard Area Citizens v. City of Rancho Cordova, supra,* 40 Cal.4th at 431, also used its independent judgment to determine what level of analysis CEQA requires for water supply impacts. The Court did not defer to the lead agency's opinion regarding the law's requirements; rather, it determined for itself what level of analysis was necessary to meet "[t]he law's informational demands." (*Id.* at p. 432.) Further, existing case law also holds that where an agency fails to comply with CEQA's information disclosure requirements, the agency has "failed to proceed in the manner required by law." (*Save Our Peninsula Comm. v. Monterey County Bd. of Supervisors* (2001) 87 Cal.App.4th 99, 118.)

However, whether an EIR satisfies CEQA's requirements depends in part on whether it was reasonably feasible for an agency to conduct additional or more thorough analysis. EIRs must contain "a detailed statement" of a project's impacts (Pub. Res. Code § 21061), and an agency must "use its best efforts to find out and disclose all that it reasonably can." (CEQA Guidelines § 15144.) Nevertheless, "the sufficiency of an EIR is to be reviewed in light of what is reasonably feasible." (CEQA Guidelines § 15151.)

SCAQMD submits that the question of whether additional analysis or a particular study suggested by a commenter is "feasible" is generally a question of fact. Courts have already held that whether a particular alternative is "feasible" is reviewed by the substantial evidence test.

(*Uphold Our Heritage v. Town of Woodside* (2007) 147 Cal.App.4th 587, 598-99; *Center for Biological Diversity v. County of San Bernardino* (2010) 185 Cal.App.4th 866, 883.) Thus, if a lead agency determines that a particular study or analysis is infeasible, that decision should generally be judged by the substantial evidence standard. However, SCAQMD urges this Court to hold that lead agencies must explain the basis of any determination that a particular analysis is infeasible in the EIR itself. An EIR must discuss information, including issues related to the feasibility of particular analyses "in sufficient detail to enable meaningful participation and criticism by the public. '[W]hatever is required to be considered in an EIR must be in that formal report; what any official might have known from other writings or oral presentations cannot supply what is lacking in the report.'" (*Laurel Heights I*, *supra*, 47 Cal.3d at p. 405 (quoting *Santiago County Water District v. County of Orange* (1981) 118 Cal.App.3d 818, 831) (discussing analysis of alternatives).) The evidence on which the determination is based should also be summarized in the EIR itself, with appropriate citations to reference materials if necessary. Otherwise commenting agencies such as SCAQMD would be forced to guess where the lead agency's evidence might be located, thus thwarting effective public participation.

Moreover, if a lead agency determines that a particular study or analysis would not result in reliable or useful information and for that reason is not feasible, that determination should be judged by the substantial evidence test. (See *Neighbors for Smart Rail v. Exposition Metro Line Construction Authority*, *supra*, 57 Cal.4th 439, 448, 457:

whether "existing conditions" baseline would be misleading or uninformative judged by substantial evidence standard.[15])

If the lead agency's determination that a particular analysis or study is not feasible is supported by substantial evidence, then the agency has not violated CEQA's information disclosure provisions, since it would be infeasible to provide additional information. This Court's decisions provide precedent for such a result. For example, this Court determined that the issue of whether the EIR should have included a more detailed discussion of future herbicide use was resolved because substantial evidence supported the agency's finding that "the precise parameters of future herbicide use could not be predicted." *Ebbetts Pass Forest Watch v. California Dept. of Forestry & Fire Protection* (2008) 43 Cal.4th 936, 955.

Of course, SCAQMD expects that courts will continue to hold lead agencies to their obligations to consult with, and not to ignore or misrepresent, the views of sister agencies having special expertise in the area of air quality. (*Berkeley Keep Jets Over the Bay v. Board of Port Commissioners* (2007) 91 Cal.App.4th 1344, 1364 n.11.) In some cases, information provided by such expert agencies may establish that the purported evidence relied on by the lead agency is not in fact "substantial". (*Id.* at pp. 1369-1371.)

In sum, courts retain ultimate responsibility to determine what CEQA requires. However, the law does not require exhaustive analysis, but only what is reasonably feasible. Agencies deserve deference for their factual determinations regarding what type of analysis is reasonably feasible. On the other hand, if a commenter requests more information, and the lead agency declines to provide it but does *not* determine that the

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[15] The substantial evidence standard recognizes that the courts "have neither the resources nor the scientific expertise" to weigh conflicting evidence on technical issues. (*Laurel Heights I, supra,* 47 Cal.3d 376, 393.)

requested study or analysis would be infeasible, misleading or uninformative, the question becomes whether the omission of that analysis renders the EIR inadequate to satisfy CEQA's informational purposes. (*Id.* at pp. 1370-71.) Again, this is predominantly a question of law and should be judged by the de novo or independent judgment standard of review. Of course, this Court has recognized that a "project opponent or reviewing court can always imagine some additional study or analysis that might provide helpful information. It is not for them to design the EIR. That further study...might be helpful does not make it necessary." (*Laurel Heights I, supra,* 47 Cal.3d 376, 415 – see also CEQA Guidelines § 15204(a) [CEQA "does not require a lead agency to conduct every test. . . recommended or demanded by commenters."].) Courts, then, must adjudicate whether an omission of particular information renders an EIR inadequate to serve CEQA's informational purposes.[16]

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[16] We recognize that there is case law stating that the substantial evidence standard applies to "challenges to the scope of an EIR's analysis of a topic" as well as the methodology used and the accuracy of the data relied on in the document "because these types of challenges involve factual questions." (*Bakersfield Citizens for Local Control v. City of Bakersfield*, *supra*, 124 Cal.App.4th 1184, 1198, and cases relied on therein.) However, we interpret this language to refer to situations where the question of the scope of the analysis really is factual—that is, where it involves whether further analysis is feasible, as discussed above. This interpretation is supported by the fact that the *Bakersfield* court expressly rejected an argument that a claimed "omission of information from the EIR should be treated as inquiries whether there is substantial evidence supporting the decision approving the project. " *Bakersfield, supra,* 124 Cal.App.4th at p. 1208. And the *Bakersfield* court ultimately decided that the lead agency must analyze the connection between the identified air pollution impacts and resulting health impacts, even though the EIR already included some discussion of air-pollution-related respiratory illnesses. *Bakersfield, supra,* 124 Cal.App.4th at p. 1220. Therefore, the court must not have interpreted this question as one of the "scope of the analysis" to be judged by the substantial evidence standard.

B. Friant Ranch's Rationale for Rejecting the Independent Judgment Standard of Review is Unsupported by Case Law.

In its brief, Friant Ranch makes a distinction between cases where a required CEQA topic is not discussed at all (to be reviewed by independent judgment as a failure to proceed in the manner required by law) and cases where a topic is discussed, but the commenter claims the information provided is insufficient (to be judged by the substantial evidence test). (Opening Brief, pp. 13-17.) The Court of Appeal recognized these two types of cases, but concluded that both raised questions of law. (*Sierra Club v. County of Fresno* (2014) 226 Cal.App.4th 704 (superseded by grant of review) 172 Cal.Rptr.3d 271, 290.) We believe the distinction drawn by Friant Ranch is unduly narrow, and inconsistent with cases which have concluded that CEQA documents are insufficient. In many instances, CEQA's requirements are stated broadly, and the courts must interpret the law to determine what level of analysis satisfies CEQA's mandate for providing meaningful information, even though the EIR discusses the issue to some extent.

For example, the CEQA Guidelines require discussion of the existing environmental baseline. In *County of Amador v. El Dorado County Water Agency* (1999) 76 Cal.App.4th 931, 954-955, the lead agency had discussed the environmental baseline by describing historic month-end water levels in the affected lakes. However, the court held that this was not an adequate baseline discussion because it failed to discuss the timing and amounts of past actual water releases, to allow comparison with the proposed project. The court evidently applied the independent judgment test to its decision, even though the agency discussed the issue to some extent.

Likewise, in *Vineyard Area Citizens* (2007) 40 Cal.4th 412, this Court addressed the question of whether an EIR's analysis of water supply impacts complied with CEQA. The parties agreed that the EIR was required to analyze the effects of providing water to the development project, "and that in order to do so the EIR had, in some manner, to identify the planned sources of that water." (*Vineyard Area Citizens, supra,* at p. 428.) However, the parties disagreed as to the level of detail required for this analysis and "what level of uncertainty regarding the availability of water supplies can be tolerated in an EIR . . . ." (*Id.*) In other words, the EIR had analyzed water supply impacts for the project, but the petitioner claimed that the analysis was insufficient.

This Court noted that neither CEQA's statutory language or the CEQA Guidelines specifically addressed the question of how precisely an EIR must discuss water supply impacts. (*Id.*) However, it explained that CEQA "states that '[w]hile foreseeing the unforeseeable is not possible, an agency must use its best efforts to find out and disclose all that it reasonably can.'" (*Id.*, [Guidelines § 15144].) The Court used this general principle, along with prior precedent, to elucidate four "principles for analytical adequacy" that are necessary in order to satisfy "CEQA's informational purposes." (*Vineyard Area Citizens, supra,* at p. 430.) The Court did not defer to the agency's determination that the EIR's analysis of water supply impacts was sufficient. Rather, this Court used its independent judgment to determine for itself the level of analysis required to satisfy CEQA's fundamental purposes. (*Vineyard Area Citizens, supra*, at p. 441: an EIR does not serve its purposes where it neglects to explain likely sources of water and "... leaves long term water supply considerations to later stages of the project.")

Similarly, the CEQA Guidelines require an analysis of noise impacts of the project. (Appendix G, "Environmental Checklist Form."[17]) In *Gray v. County of Madera* (2008) 167 Cal.App.4th 1099, 1123, the court held that the lead agency's noise impact analysis was inadequate even though it had addressed the issue and concluded that the increase would not be noticeable. If the court had been using the substantial evidence standard, it likely would have upheld this discussion.

Therefore, we do not agree that the issue can be resolved on the basis suggested by Friant Ranch, which would apply the substantial evidence standard to *every* challenge to an analysis that addresses a required CEQA topic. This interpretation would subvert the courts' proper role in interpreting CEQA and determining what the law requires.

Nor do we agree that the Court of Appeal in this case violated CEQA's prohibition on courts interpreting its provisions "in a manner which imposes procedural or substantive requirements beyond those explicitly stated in this division or in the state guidelines." (Pub. Resources Code § 21083.1.) CEQA requires an EIR to describe *all* significant impacts of the project on the environment. (Pub. Resources Code § 21100(b)(2); *Vineyard Area Citizens, supra,* at p. 428.) Human beings are part of the environment, so CEQA requires EIRs to discuss a project's significant impacts on human health. However, except in certain particular circumstances,[18] neither the CEQA statute nor Guidelines specify the precise level of analysis that agencies must undertake to satisfy the law's requirements. (see, e.g., CEQA Guidelines § 15126.2(a) [EIRs must describe "health and safety problems caused by {a project's} physical changes"].) Accordingly, courts must interpret CEQA as a whole to

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[17] Association of Environmental Professionals, 2015 CEQA Statute and Guidelines (2015) p.287.

[18] E.g., Pub. Resources Code § 21151.8(C)(3)(B)(iii) (requiring specific type of health risk analysis for siting schools).

determine whether a particular EIR is sufficient as an informational document. A court determining whether an EIR's discussion of human health impacts is legally sufficient does not constitute imposing a new substantive requirement.[19] Under Friant Ranch's theory, the above-referenced cases holding a CEQA analysis inadequate would have violated the law. This is not a reasonable interpretation.

IV. COURTS MUST SCRUPULOUSLY ENFORCE THE REQUIREMENTS THAT LEAD AGENCIES CONSULT WITH AND OBTAIN COMMENTS FROM AIR DISTRICTS

Courts must "scrupulously enforce" CEQA's legislatively mandated requirements. (*Vineyard Area Citizens, supra*, 40 Cal.4th 412, 435.) Case law has firmly established that lead agencies must consult with the relevant air pollution control district before conducting an initial study, and must provide the districts with notice of the intention to adopt a negative declaration (or EIR). (*Schenck v. County of Sonoma* (2011) 198 Cal.App.4th 949, 958.) As *Schenck* held, neither publishing the notice nor providing it to the State Clearinghouse was a sufficient substitute for sending notice directly to the air district. (*Id.*) Rather, courts "must be satisfied that [administrative] agencies have fully complied with the procedural requirements of CEQA, since only in this way can the important public purposes of CEQA be protected from subversion." *Schenck,* 198 Cal.App.4th at p. 959 (citations omitted).[20]

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[19] We submit that Public Resources Code Section 21083.1 was intended to prevent courts from, for example, holding that an agency must analyze economic impacts of a project where there are no resulting environmental impacts (see CEQA Guidelines § 15131) , or imposing new procedural requirements, such as imposing additional public notice requirements not set forth in CEQA or the Guidelines.

[20] Lead agencies must consult air districts, as public agencies with jurisdiction by law over resources affected by the project, *before* releasing an EIR. (Pub. Resources Code §§ 21104(a); 21153.) Moreover, air

Lead agencies should be aware, therefore, that failure to properly seek and consider input from the relevant air district constitutes legal error which may jeopardize their project approvals. For example, the court in *Fall River Wild Trout Foundation v. County of Shasta,* (1999) 70 Cal.App.4th 482, 492 held that the failure to give notice to a trustee agency (Department of Fish and Game) was prejudicial error requiring reversal. The court explained that the lack of notice prevented the Department from providing any response to the CEQA document. (*Id.* at p. 492.) It therefore prevented relevant information from being presented to the lead agency, which was prejudicial error because it precluded informed decision-making. (*Id.*)[21]

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districts should be considered "state agencies" for purposes of the requirement to consult with "trustee agencies" as set forth in Public Resources Code § 20180.3(a). This Court has long ago held that the districts are not mere "local agencies" whose regulations are superseded by those of a state agency regarding matters of statewide concern, but rather have concurrent jurisdiction over such issues. (*Orange County Air Pollution Control District v. Public Util. Com.* (1971) 4 Cal.3d 945, 951, 954.) Since air pollution is a matter of statewide concern, *Id* at 952, air districts should be entitled to trustee agency status in order to ensure that this vital concern is adequately protected during the CEQA process.

[21] In *Schenck,* the court concluded that failure to give notice to the air district was not prejudicial, but this was partly because the trial court had already corrected the error before the case arrived at the Court of Appeal. The trial court issued a writ of mandate requiring the lead agency to give notice to the air district. The air district responded by concurring with the lead agency that air impacts were not significant. (*Schenck,* 198 Cal.App.4th 949, 960.) We disagree with the *Schenck* court that the failure to give notice to the air district would not have been prejudicial (even in the absence of the trial court writ) merely because the lead agency purported to follow the air district's published CEQA guidelines for significance. (*Id.*, 198 Cal.App.4th at p. 960.) In the first place, absent notice to the air district, it is uncertain whether the lead agency properly followed those guidelines. Moreover, it is not realistic to expect that an air district's published guidelines would necessarily fully address all possible air-quality related issues that can arise with a CEQA project, or that those

Similarly, lead agencies must obtain additional information requested by expert agencies, including those with jurisdiction by law, if that information is necessary to determine a project's impacts. (*Sierra Club v. State Bd. Of Forestry* (1994) 7 Cal.4th 1215, 1236-37.) Approving a project without obtaining that information constitutes a failure to proceed in the manner prescribed by CEQA. (*Id.* at p. 1236.)

Moreover, a lead agency can save significant time and money by consulting with the air district early in the process. For example, the lead agency can learn what the air district recommends as an appropriate analysis on the facts of its case, including what kinds of health impacts analysis may be available, and what models are appropriate for use. This saves the lead agency from the need to do its analysis all over again and possibly needing to recirculate the document after errors are corrected, if new significant impacts are identified. (CEQA Guidelines § 15088.5(a).) At the same time, the air district's expert input can help the lead agency properly determine whether another commenter's request for additional analysis or studies is reasonable or feasible. Finally, the air district can provide input on what mitigation measures would be feasible and effective.

Therefore, we suggest that this Court provide guidance to lead agencies reminding them of the importance of consulting with the relevant air districts regarding these issues. Otherwise, their feasibility decisions may be vulnerable to air district evidence that establishes that there is no substantial evidence to support the lead agency decision not to provide specific analysis. (*See Berkeley Keep Jets Over the Bay, supra,* 91 Cal.App.4th 1344, 1369-1371.)

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guidelines would necessarily be continually modified to reflect new developments. Therefore we believe that, had the trial court not already ordered the lead agency to obtain the air district's views, the failure to give notice would have been prejudicial, as in *Fall River, supra,* 70 Cal.App.4th 482, 492.

CONCLUSION

The SCAQMD respectfully requests this Court *not* to establish a hard-and-fast rule concerning whether CEQA requires a lead agency to correlate identified air quality impacts of a project with resulting health outcomes. Moreover, the question of whether an EIR is "sufficient as an informational document" is a mixed question of fact and law containing two levels of inquiry. Whether a particular proposed analysis is feasible is predominantly a question of fact to be judged by the substantial evidence standard of review. Where the requested analysis is feasible, but the lead agency relies on legal or policy reasons not to provide it, the question of whether the EIR is nevertheless sufficient as an informational document is predominantly a question of law to be judged by the independent judgment standard of review.

Respectfully submitted,

DATED: April 3, 2015

SOUTH COAST AIR QUALITY
MANAGEMENT DISTRICT
KURT R. WIESE, GENERAL COUNSEL
BARBARA BAIRD, CHIEF DEPUTY COUNSEL

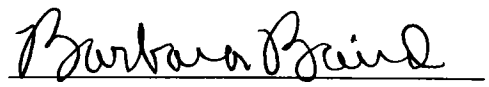
By: Barbara Baird

Barbara Baird
Attorneys for Amicus Curiae
SOUTH COAST AIR QUALITY MANAGEMENT DISTICT

CERTIFICATE OF WORD COUNT

Pursuant to Rule 8.520(c)(1) of the California Rules of Court, I hereby certify that this brief contains 8,476 words, including footnotes, but excluding the Application, Table of Contents, Table of Authorities, Certificate of Service, this Certificate of Word Count, and signature blocks. I have relied on the word count of the Microsoft Word Vista program used to prepare this Certificate.

DATED: April 3, 2015 Respectfully submitted,



Barbara Baird

PROOF OF SERVICE

I am employed in the County of Los Angeles, California. I am over the age of 18 years and not a party to the within action. My business address is 21865 Copley Drive, Diamond Bar, California 91765.

On April 3, 2015 I served true copies of the following document(s) described as **APPLICATION OF THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT FOR LEAVE TO FILE BRIEF OF *AMICUS CURIAE* IN SUPPORT OF NEITHER PARTY AND *[PROPOSED]* BRIEF OF *AMICUS CURIAE*** by placing a true copy of the foregoing document(s) in a sealed envelope addressed as set forth on the attached service list as follows:

BY MAIL: I enclosed the document(s) in a sealed envelope or package addressed to the persons at the addresses listed in the Service List and placed the envelope for collection and mailing following our ordinary business practices. I am readily familiar with this District's practice for collection and processing of correspondence for mailing. Under that practice, the correspondence would be deposited with the United States Postal Service, with postage thereon fully prepaid at Diamond Bar, California, in the ordinary course of business. I am aware that on motion of the party served, service is presumed invalid if postal cancellation date or postage meter date is more than one day after date of deposit for mailing in affidavit.

I declare under penalty of perjury under the laws of the State of California that the foregoing is true and correct.

Executed on April 3, 2015 at Diamond Bar, California.

Patricia Anderson

SERVICE LIST

James G. Moose, Tiffany K. Wright, Laura M. Harris REMY MOOSE MANLEY, LLP 555 Capitol Mall, Suite 800 Sacramento, CA 95814	Attorneys for Real Party in Interest and Respondent *Friant Ranch, L.P.*
Bryan N. Wagner WAGNER & WAGNER 7110 N. Fresno St, Suite 340 Fresno, CA 93720	Attorney for Real Party in Interest and Respondent *Friant Ranch, L.P.*
Sara Hedgpeth-Harris LAW OFFICE OF SARA HEDGPETH-HARRIS 5445 E. Lane Avenue Fresno, CA 93727	Attorney for Plaintiffs and Appellants *Sierra Club, et al*
Daniel C. Cederborg Bruce B. Johnson, Jr. Zachary Stephen Redmond OFFICE OF THE FRESNO COUNTY COUNSEL 2220 Tulare Street, Suite 500 Fresno, CA 93721	Attorneys for Respondents *County of Fresno*

Clerk of the Court
California Court of Appeal
Fifth Appellate District
2424 Ventura Street
Fresno, CA 93721
(via U.S. Mail & Electronic Transmission)

Clerk of the Court
Superior Court of California
County of Fresno
1130 O Street
Fresno, CA 93721

SUPREME COURT COPY

CASE NO. S219783

IN THE SUPREME COURT OF CALIFORNIA

SIERRA CLUB, REVIVE THE SAN JOAQUIN, and
LEAGUE OF WOMEN VOTERS OF FRESNO,
Plaintiffs and Appellants

v.

COUNTY OF FRESNO,
Defendant and Respondent

FRIANT RANCH, L.P.,
Real Party in Interest and Respondent

SUPREME COURT
FILED

APR 13 2015

Frank A. McGuire Clerk

Deputy

After a Decision by the Court of Appeal, filed May 27, 2014
Fifth Appellate District Case No. F066798

Appeal from the Superior Court of California, County of Fresno
Case No. 11CECG00726

APPLICATION FOR LEAVE TO FILE AMICUS CURIAE BRIEF OF SAN JOAQUIN VALLEY UNIFIED AIR POLLUTION CONTROL DISTRICT IN SUPPORT OF DEFENDANT AND RESPONDENT, COUNTY OF FRESNO AND REAL PARTY IN INTEREST AND RESPONDENT, FRIANT RANCH, L.P.

CATHERINE T. REDMOND (State Bar No. 226957)
261 High Street
Duxbury, Massachusetts 02332
Tel. (339) 236-5720
Catherinetredmond22@gmail.com

SAN JOAQUIN VALLEY UNIFIED AIR POLLUTION CONTROL DISTRICT
Annette Ballatore-Williamson, District Counsel (State Bar. No. 192176)
1990 E. Gettysburg Avenue
Fresno, California 93726
Tel. (559) 230-6033
Annette.Ballatore-Williamson@valleyair.org

Counsel for San Joaquin Valley Unified Air Pollution Control District

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CATHERINE T. REDMOND (State Bar No. 226957)
261 High Street
Duxbury, Massachusetts 02332
Tel. (339) 236-5720
Catherinetredmond22@gmail.com

SAN JOAQUIN VALLEY UNIFIED AIR POLLUTION CONTROL DISTRICT
Annette Ballatore-Williamson, District Counsel (State Bar. No. 192176)
1990 E. Gettysburg Avenue
Fresno, California 93726
Tel. (559) 230-6033
Annette.Ballatore-Williamson@valleyair.org

Counsel for San Joaquin Valley Unified Air Pollution Control District

APPLICATION

Pursuant to California Rules of Court 8.520(f)(1), proposed Amicus Curiae San Joaquin Valley Unified Air Pollution Control District hereby requests permission from the Chief Justice to file an amicus brief in support of Defendant and Respondent, County of Fresno, and Defendant and Real Parties in Interest Friant Ranch, L.P. Pursuant to Rule 8.520(f)(5) of the California Rules of Court, the proposed amicus curiae brief is combined with this Application. The brief addresses the following issue certified by this Court for review:

> Is an EIR adequate when it identifies the health impacts of air pollution and quantifies a project's expected emissions, or does CEQA further require the EIR to *correlate* a project's air quality emissions to specific health impacts?

As of the date of this filing, the deadline for the final reply brief on the merits was March 5, 2015. Accordingly, under Rule 8.520(f)(2), this application and brief are timely.

1. Background and Interest of San Joaquin Valley Unified Air Pollution Control District

The San Joaquin Valley Unified Air Pollution Control District ("Air District") regulates air quality in the eight counties comprising the San Joaquin Valley ("Central Valley"): Kern, Tulare, Madera, Fresno, Merced, San Joaquin, Stanislaus, and Kings, and is primarily responsible for attaining air quality standards within its jurisdiction. After billions of dollars of investment by Central Valley businesses, pioneering air quality regulations, and consistent efforts by residents, the Central Valley air basin has made historic improvements in air quality.

The Central Valley's geographical, topographical and meteorological features create exceptionally challenging air quality

conditions. For example, it receives air pollution transported from the San Francisco Bay Area and northern Central Valley communities, and the southern portion of the Central Valley includes three mountain ranges (Sierra, Tehachapi, and Coastal) that, under some meteorological conditions, effectively trap air pollution. Central Valley air pollution is only a fraction of what the Bay Area and Los Angeles produce, but these natural conditions result in air quality conditions that are only marginally better than Los Angeles, even though about ten times more pollution is emitted in the Los Angeles region. Bay Area air quality is much better than the Central Valley's, even though the Bay Area produces about six times more pollution. The Central Valley also receives air pollution transported from the Bay Area and northern counties in the Central Valley, including Sacramento, and transboundary anthropogenic ozone from as far away as China.

Notwithstanding these challenges, the Central Valley has reduced emissions at the same or better rate than other areas in California and has achieved unparalleled milestones in protecting public health and the environment:

- In the last decade, the Central Valley became the first air basin classified by the federal government under the Clean Air Act as a "serious nonattainment" area to come into attainment of health-based National Ambient Air Quality Standard ("NAAQS") for coarse particulate matter (PM10), an achievement made even more notable given the Valley's extensive agricultural sector. Unhealthy levels of particulate matter can cause and exacerbate a range of chronic and acute illnesses.
- In 2013, the Central Valley became the first air basin in the country to improve from a federal designation of "extreme" nonattainment to

actually attain (and quality for an attainment designation) of the 1-hour ozone NAAQS; ozone creates "smog" and, like PM10, causes adverse health impacts.

- The Central Valley also is in full attainment of federal standards for lead, nitrogen dioxide, sulfur dioxide, and carbon monoxide.
- The Central Valley continues to make progress toward compliance with its last two attainment standards, with the number of exceedences for the 8-hour ozone NAAQS reduced by 74% (for the 1997 standard) and 38% (for the 2008 standard) since 1991, and for the small particulate matter (PM2.5) NAAQS reduced by 85% (for the 1997 standard) and 61% (for the 2006 standard).

Sustained improvement in Central Valley air quality requires a rigorous and comprehensive regulatory framework that includes prohibitions (e.g., on wood-burning fireplaces in new residences), mandates (e.g., requiring the installation of best available pollution reduction technologies on new and modified equipment and industrial operations), innovations (e.g., fees assessed against residential development to fund pollution reduction actions to "offset" vehicular emissions associated with new residences), incentive programs (e.g., funding replacements of older, more polluting heavy duty trucks and school buses)[1], ongoing planning for continued air quality improvements, and enforcement of Air District permits and regulations.

The Air District is also an expert air quality agency for the eight counties and cities in the San Joaquin Valley. In that capacity, the Air District has developed air quality emission guidelines for use by the Central

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[1] San Joaquin's incentive program has been so successful that through 2012, it has awarded over $ 432 million in incentive funds and has achieved 93,349 tons of lifetime emissions reductions. *See* SAN JOAQUIN VALLEY AIR POLLUTION CONTROL DISTRICT, 2012 PM2.5 PLAN, 6-6 (2012) *available at* http://www.valleyair.org/Workshops/postings/2012/12-20-12PM25/FinalVersion/06%20Chapter%206%20Incentives.pdf.

Valley counties and cities that implement the California Environment Quality Act (CEQA).[2] In its guidance, the Air District has distinguished between toxic air contaminants and criteria air pollutants.[3] Recognizing this distinction, the Air District's CEQA Guidance has adopted distinct thresholds of significance for *criteria* pollutants (i.e., ozone, PM2.5 and their respective precursor pollutants) based upon scientific and factual data which demonstrates the level that can be accommodated on a cumulative basis in the San Joaquin Valley without affecting the attainment of the applicable NAAQS.[4] For *toxic air* pollutants, the District has adopted different thresholds of significance which scientific and factual data demonstrates has the potential to expose sensitive receptors (i.e., children, the elderly) to levels which may result in localized health impacts.[5]

The Air District's CEQA Guidance was followed by the County of Fresno in its environment review of the Friant Ranch project, for which the Air District also served as a commenting agency. The Court of Appeal's holding, however, requiring correlation between the project's criteria

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[2] *See, e.g.*, SAN JOAQUIN VALLEY AIR POLLUTION CONTROL DISTRICT, PLANNING DIVISION, GUIDE FOR ASSESSING AND MITIGATING AIR QUALITY IMPACTS (2015), *available at* http://www.valleyair.org/transportation/GAMAQI_3-19-15.pdf ("CEQA Guidance").

[3] Toxic air contaminants, also known as hazardous air pollutants, are those pollutants that are known or suspected to cause cancer or other serious health effects, such as birth defects. There are currently 189 toxic air contaminants regulated by the United States Environmental Protection Agency ("EPA") and the states pursuant to the Clean Air Act. 42 U.S.C. § 7412. Common TACs include benzene, perchloroethylene and asbestos. *Id.* at 7412(b).

In contrast, there are only six (6) criteria air pollutants: ozone, particulate matter, carbon monoxide, nitrogen oxides, sulfur dioxide and lead. Although criteria air pollutants can also be harmful to human health, they are distinguishable from toxic air contaminants and are regulated separately. For instance, while criteria pollutants are regulated by numerous sections throughout Title I of the Clean Air Act, the regulation of toxic air contaminants occurs solely under section 112 of the Act. Compare 42 U.S.C. §§ 7407 – 7411 & 7501 – 7515 with 42 U.S.C. § 7411.

[4] See, e.g., CEQA Guidance at http://www.valleyair.org/transportation/GAMAQI_3-19-15.pdf, pp. 64-66, 80.

[5] See, e.g., CEQA Guidance at http://www.valleyair.org/transportation/GAMAQI_3-19-15.pdf, pp. 66, 99-101.

pollutants and local health impacts, departs from the Air District's Guidance and approved methodology for assessing criteria pollutants. A close reading of the administrative record that gave rise to this issue demonstrates that the Court's holding is based on a misunderstanding of the distinction between toxic air contaminants (for which a local health risk assessment is feasible and routinely performed) and criteria air pollutants (for which a local health risk assessment is not feasible and would result in speculative results).[6] The Air District has a direct interest in ensuring the lawfulness and consistent application of its CEQA Guidance, and will explain how the Court of Appeal departed from the Air District's long-standing CEQA Guidance in addressing criteria pollutants and toxic air contaminants in this amicus brief.

2. How the Proposed Amicus Curiae Brief Will Assist the Court

As counsel for the proposed amicus curiae, we have reviewed the briefs filed in this action. In addition to serving as a "commentary agency" for CEQA purposes over the Friant Ranch project, the Air District has a strong interest in assuring that CEQA is used for its intended purpose, and believes that this Court would benefit from additional briefing explaining the distinction between criteria pollutants and toxic air contaminants and the different methodologies employed by local air pollution control agencies such as the Air District to analyze these two categories of air pollutants under CEQA. The Air District will also explain how the Court of Appeal's opinion is based upon a fundamental misunderstanding of these two different approaches by requiring the County of Fresno to correlate the project's *criteria* pollution emissions with *local* health impacts. In doing

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[6] CEQA does not require speculation. *See, e.g.*, *Laurel Heights Improvement Ass'n v. Regents of Univ. of Cal.*, 6 Cal. 4th 1112, 1137 (1993) (upholding EIR that failed to evaluate cumulative toxic air emission increases given absence of any acceptable means for doing so).

so, the Air District will provide helpful analysis to support its position that at least insofar as criteria pollutants are concerned, CEQA does not require an EIR to correlate a project's air quality emissions to specific health impacts, because such an analysis is not reasonably feasible.

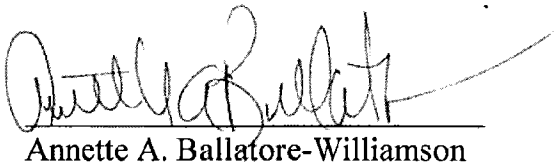
Rule 8.520 Disclosure

Pursuant to Cal. R. 8.520(f)(4), neither the Plaintiffs nor the Defendant or Real Party In Interest or their respective counsel authored this brief in whole or in part. Neither the Plaintiffs nor the Defendant or Real Party in Interest or their respective counsel made any monetary contribution towards or in support of the preparation of this brief.

CONCLUSION

On behalf of the San Joaquin Valley Unified Air Pollution Control District, we respectfully request that this Court accept the filing of the attached brief.

Dated: April 2, 2015



Annette A. Ballatore-Williamson
District Counsel
Attorney for Proposed Amicus Curiae

SAN JOAQUIN VALLEY UNIFIED
AIR POLLUTION CONTROL
DISTRICT

CASE NO. S219783

IN THE SUPREME COURT OF CALIFORNIA

SIERRA CLUB, REVIVE THE SAN JOAQUIN, and
LEAGUE OF WOMEN VOTERS OF FRESNO,
Plaintiffs and Appellants

v.

COUNTY OF FRESNO,
Defendant and Respondent

FRIANT RANCH, L.P.,
Real Party in Interest and Respondent

After a Decision by the Court of Appeal, filed May 27, 2014
Fifth Appellate District Case No. F066798

Appeal from the Superior Court of California, County of Fresno
Case No. 11CECG00726

AMICUS CURIAE BRIEF OF SAN JOAQUIN VALLEY UNIFIED AIR POLLUTION CONTROL DISTRICT IN SUPPORT OF DEFENDANT AND RESPONDENT, COUNTY OF FRESNO AND REAL PARTY IN INTEREST AND RESPONDENT, FRIANT RANCH, L.P.

CATHERINE T. REDMOND (State Bar No. 226957)
261 High Street
Duxbury, Massachusetts 02332
Tel. (339) 236-5720
Catherinetredmond22@gmail.com

SAN JOAQUIN VALLEY UNIFIED AIR POLLUTION CONTROL DISTRICT
Annette A. Ballatore-Williamson, District Counsel (State Bar. No. 192176)
1990 E. Gettysburg Avenue
Fresno, California 93726
Tel. (559) 230-6033
Annette.Ballatore-Williamson@valleyair.org
Counsel for San Joaquin Valley Unified Air Pollution Control District

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I. INTRODUCTION.

The San Joaquin Valley Unified Air Pollution Control District ("Air District") respectfully submits that the Court of Appeal erred when it held that the air quality analysis contained in the Environmental Impact Report ("EIR") for the Friant Ranch development project was inadequate under the California Environmental Quality Act ("CEQA") because it did not include an analysis of the correlation between the project's criteria air pollutants and the potential adverse human health impacts. A close reading of the portion of the administrative record that gave rise to this issue demonstrates that the Court's holding is based on a misunderstanding of the distinction between toxic air contaminants and criteria air pollutants.

Toxic air contaminants, also known as hazardous air pollutants, are those pollutants that are known or suspected to cause cancer or other serious health effects, such as birth defects. There are currently 189 toxic air contaminants (hereinafter referred to as "TACs") regulated by the United States Environmental Protection Agency ("EPA") and the states pursuant to the Clean Air Act. 42 U.S.C. § 7412. Common TACs include benzene, perchloroethylene and asbestos. *Id.* at 7412(b).

In contrast, there are only six (6) criteria air pollutants: ozone, particulate matter, carbon monoxide, nitrogen oxides, sulfur dioxide and lead. Although criteria air pollutants can also be harmful to human health,

they are distinguishable from TACs and are regulated separately. For instance, while criteria pollutants are regulated by numerous sections throughout Title I of the Clean Air Act, the regulation of TACs occurs solely under section 112 of the Act. *Compare* 42 U.S.C. §§ 7407 – 7411 & 7501 – 7515 *with* 42 U.S.C. § 7411.

The most relevant difference between criteria pollutants and TACs for purposes of this case is the manner in which human health impacts are accounted for. While it is common practice to analyze the correlation between an individual facility's TAC emissions and the expected localized human health impacts, such is not the case for criteria pollutants. Instead, the human health impacts associated with criteria air pollutants are analyzed and taken into consideration when EPA sets the national ambient air quality standard ("NAAQS") for each criteria pollutant. 42 U.S.C. § 7409(b)(1). The health impact of a particular criteria pollutant is analyzed on a regional and not a facility level based on how close the area is to complying with (attaining) the NAAQS. Accordingly, while the type of individual facility / health impact analysis that the Court of Appeal has required is a customary practice for TACs, it is not feasible to conduct a similar analysis for criteria air pollutants because currently available computer modeling tools are not equipped for this task.

It is clear from a reading of both the administrative record and the Court of Appeal's decision that the Court did not have the expertise to fully

appreciate the difference between TACs and criteria air pollutants. As a result, the Court has ordered the County of Fresno to conduct an analysis that is not practicable and not likely yield valid information. The Air District respectfully requests that this portion of the Court of Appeal's decision be reversed.

II. THE COURT OF APPEAL ERRED IN FINDING THE FRIANT RANCH EIR INADEQUATE FOR FAILING TO ANALYZE THE SPECIFIC HUMAN HEALTH IMPACTS ASSOCIATED CRITERIA AIR POLLUTANTS.

Although the Air District does not take lightly the amount of air emissions at issue in this case, it submits that the Court of Appeal got it wrong when it required Fresno County to revise the Friant Ranch EIR to include an analysis correlating the criteria air pollutant emissions associated with the project with specific, localized health-impacts. The type of analysis the Court of Appeal has required will not yield reliable information because currently available modeling tools are not well suited for this task. Further, in reviewing this issue de novo, the Court of Appeal failed to appreciate that it lacked the scientific expertise to appreciate the significant differences between a health risk assessment commonly performed for toxic air contaminants and a similar type of analysis it felt should have been conducted for criteria air pollutants.

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A. Currently Available Modeling Tools are not Equipped to Provide a Meaningful Analysis of the Correlation between an Individual Development Project's Air Emissions and Specific Human Health Impacts.

In order to appreciate the problematic nature of the Court of Appeals' decision requiring a health risk type analysis for criteria air pollutants, it is important to understand how the relevant criteria pollutants (ozone and particulate matter) are formed, dispersed and regulated.

Ground level ozone (smog) is not directly emitted into the air, but is formed when precursor pollutants such as oxides of nitrogen (NOx) and volatile organic compounds (VOCs) are emitted into the atmosphere and undergo complex chemical reactions in the process of sunlight.[1] Once formed, ozone can be transported long distances by wind.[2] Because of the complexity of ozone formation, a specific tonnage amount of NOx or VOCs emitted in a particular area does not equate to a particular concentration of ozone in that area. In fact, even rural areas that have relatively low tonnages of emissions of NOx or VOCs can have high levels of ozone concentration simply due to wind transport.[3] Conversely, the San Francisco Bay Area has six times more NOx and VOC emissions per square mile than the San Joaquin Valley, but experiences lower

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[1] *See* United States Environmental Protection Agency, *Ground-level Ozone: Basic Information*, available at: http://www.epa.gov/airquality/ozonepollution/basic.html (visited March 10, 2015).
[2] *Id.*
[3] *Id.*

concentrations of ozone (and better air quality) simply because sea breezes disperse the emissions.[4]

Particulate matter ("PM") can be divided into two categories: directly emitted PM and secondary PM.[5] While directly emitted PM can have a localized impact, the tonnage emitted does not always equate to the local PM concentration because it can be transported long distances by wind.[6] Secondary PM, like ozone, is formed via complex chemical reactions in the atmosphere between precursor chemicals such as sulfur dioxides (SOx) and NOx.[7] Because of the complexity of secondary PM formation, the tonnage of PM-forming precursor emissions in an area does not necessarily result in an equivalent concentration of secondary PM in that area.

The disconnect between the *tonnage* of precursor pollutants (NOx, SOx and VOCs) and the *concentration* of ozone or PM formed is important because it is not necessarily the tonnage of precursor pollutants that causes human health effects, but the concentration of resulting ozone or PM. Indeed, the national ambient air quality standards ("NAAQS"), which are statutorily required to be set by the United States Environmental Protection

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[4] *San Joaquin Valley Air Pollution Control District 2007 Ozone Plan*, Executive Summary p. ES-6, available at: http://www.valleyair.org/Air_Quality_Plans/docs/AQ_Ozone_2007_Adopted/03%20Executive%20Summary.pdf (visited March 10, 2015).
[5] United States Environmental Protection Agency, *Particulate Matter: Basic Information*, available at: http://www.epa.gov/airquality/particlepollution/basic.html (visited March 10, 2015).
[6] *Id.*
[7] *Id.*

Agency ("EPA") at levels that are "requisite to protect the public health," 42 U.S.C. § 7409(b)(1), are established as concentrations of ozone or particulate matter and not as tonnages of their precursor pollutants.[8]

Attainment of a particular NAAQS occurs when the concentration of the relevant pollutant remains below a set threshold on a consistent basis throughout a particular region. For example, the San Joaquin Valley attained the 1-hour ozone NAAQS when ozone concentrations remained at or below 0.124 parts per million Valley-wide on 3 or fewer days over a 3-year period.[9] Because the NAAQS are focused on achieving a particular concentration of pollution region-wide, the Air District's tools and plans for attaining the NAAQS are regional in nature.

For instance, the computer models used to simulate and predict an attainment date for the ozone or particulate matter NAAQS in the San Joaquin Valley are based on regional inputs, such as regional inventories of precursor pollutants (NOx, SOx and VOCs) and the atmospheric chemistry and meteorology of the Valley.[10] At a very basic level, the models simulate future ozone or PM levels based on predicted changes in precursor

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[8] See, e.g., United States Environmental Protection Agency, *Table of National Ambient Air Quality Standards*, available at: http://www.epa.gov/air/criteria.html#3 (visited March 10, 2015).
[9] *San Joaquin Valley Unified Air Pollution Control District 2013 Plan for the Revoked 1-Hour Ozone Standard*, Ch. 2 p. 2-16, available at: http://www.valleyair.org/Air_Quality_Plans/OzoneOneHourPlan2013/02Chapter2ScienceTrendsModeling.pdf (visited March 10, 2015).
[10] *Id.* at Ch. 2 p. 2-19 (visited March 12, 2015); *San Joaquin Valley Unified Air Pollution Control District 2008 PM2.5 Plan*, Appendix F, pp. F-2 – F-5, available at: http://www.valleyair.org/Air_Quality_Plans/docs/AQ_Final_Adopted_PM2.5/20%20Appendix%20F.pdf
(visited March 19, 2015).

emissions Valley wide.[11] Because the NAAQS are set levels necessary to protect human health, the closer a region is to attaining a particular NAAQS, the lower the human health impact is from that pollutant.

The goal of these modeling exercises is not to determine whether the emissions generated by a particular factory or development project will affect the date that the Valley attains the NAAQS. Rather, the Air District's modeling and planning strategy is regional in nature and based on the extent to which *all* of the emission-generating sources in the Valley (current and future) must be controlled in order to reach attainment.[12]

Accordingly, the Air District has based its thresholds of significance for CEQA purposes on the levels that scientific and factual data demonstrate that the Valley can accommodate without affecting the attainment date for the NAAQS.[13] The Air District has tied its CEQA significance thresholds to the level at which stationary pollution sources permitted by the Air District must "offset" their emissions.[14] This "offset"

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[11] *Id.*

[12] Although the Air District does have a dispersion modeling tool used during its air permitting process that is used to predict whether a particular project's directly emitted PM will either cause an exceedance of the PM NAAQS or contribute to an existing exceedance, this model bases the prediction on a worst case scenario of emissions and meteorology and has no provision for predicting any associated human health impacts. Further, this analysis is only performed for stationary sources (factories, oil refineries, etc.) that are required to obtain a New Source Review permit from the Air District and not for development projects such as Friant Ranch over which the Air District has no preconstruction permitting authority. *See* San Joaquin Valley Unified Air Pollution Control District Rule 2201 §§ 2.0; 3.3.9; 4.14.1, available at: http://www.valleyair.org/rules/currntrules/Rule22010411.pdf (visited March 19, 2015).

[13] *San Joaquin Valley Unified Air Pollution Control District Guide to Assessing and Mitigating Air Quality Impacts*, (March 19, 2015) p. 22, available at: http://www.valleyair.org/transportation/CEQA%20Rules/GAMAQI%20Jan%202002%20Rev.pdf (visited March 30, 2015).

[14] *Id.* at pp. 22, 25.

level allows for growth while keeping the cumulative effects of all new sources at a level that will not impede attainment of the NAAQS.[15] In the Valley, these thresholds are 15 tons per year of PM, and 10 tons of NOx or VOC per year. *Sierra Club, supra*, 172 Cal.Rptr.3d at 303; AR 4554. Thus, the CEQA air quality analysis for criteria pollutants is not really a localized, project-level impact analysis but one of regional, "cumulative impacts."

Accordingly, the significance thresholds applied in the Friant Ranch EIR (15 tons per year of PM and 10 tons of NOx or VOCs) are not intended to be indicative of any localized human health impact that the project may have. While the health effects of air pollution are of primary concern to the Air District (indeed, the NAAQS are established to protect human health), the Air District is simply not equipped to analyze whether and to what extent the criteria pollutant emissions of an individual CEQA project directly impact human health in a particular area. This is true even for projects with relatively high levels of emissions of criteria pollutant precursor emissions.

For instance, according to the EIR, the Friant Ranch project is estimated to emit 109.52 tons per year of ROG (VOC), 102.19 tons per year of NOx, and 117.38 tons per year of PM. Although these levels well

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[15] [15] *San Joaquin Valley Unified Air Pollution Control District Environmental Review Guidelines* (Aug. 2000) p. 4-11, available at: http://www.valleyair.org/transportation/CEQA%20Rules/ERG%20Adopted%20_August%202000_.pdf (visited March 12, 2015).

exceed the Air District's CEQA significance thresholds, this does not mean that one can easily determine the concentration of ozone or PM that will be created at or near the Friant Ranch site on a particular day or month of the year, or what specific health impacts will occur. Meteorology, the presence of sunlight, and other complex chemical factors all combine to determine the ultimate concentration and location of ozone or PM. This is especially true for a project like Friant Ranch where most of the criteria pollutant emissions derive not from a single "point source," but from area wide sources (consumer products, paint, etc.) or mobile sources (cars and trucks) driving to, from and around the site.

In addition, it would be extremely difficult to model the impact on NAAQS attainment that the emissions from the Friant Ranch project may have. As discussed above, the currently available modeling tools are equipped to model the impact of *all* emission sources in the Valley on attainment. According to the most recent EPA-approved emission inventory, the NOx inventory for the Valley is for the year 2014 is 458.2 tons per day, or 167,243 tons per year and the VOC (or ROG) inventory is 361.7 tons per day, or 132,020.5 tons per year.[16] Running the photochemical grid model used for predicting ozone attainment with the

[16] *San Joaquin Valley Unified Air Pollution Control District 2007 Ozone Plan*, Appendix B pp. B-6, B-9,
available at:
http://www.valleyair.org/Air_Quality_Plans/docs/AQ_Ozone_2007_Adopted/19%20Appendix%20B%20April%202007.pdf (visited March 12, 2015).

emissions solely from the Friant Ranch project (which equate to less than one-tenth of one percent of the total NOx and VOC in the Valley) is not likely to yield valid information given the relative scale involved.

Finally, even once a model is developed to accurately ascertain local increases in concentrations of photochemical pollutants like ozone and some particulates, it remains impossible, using today's models, to correlate that increase in concentration to a specific health impact. The reason is the same: such models are designed to determine regional, population-wide health impacts, and simply are not accurate when applied at the local level.

For these reasons, it is not the norm for CEQA practitioners, including the Air District, to conduct an analysis of the localized health impacts associated with a project's criteria air pollutant emissions as part of the EIR process. When the accepted scientific method precludes a certain type of analysis, "the court cannot impose a legal standard to the contrary." *Kings County Farm Bureau v. City of Hanford* (1990) 221 Cal.App.3d 692, 717 n. 8. However, that is exactly what the Court of Appeal has done in this case. Its decision upends the way CEQA air quality analysis of criteria pollutants occurs and should be reversed.

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B. The Court of Appeal Improperly Extrapolated a Request for a Health Risk Assessment for Toxic Air Contaminants into a Requirement that the EIR contain an Analysis of Localized Health Impacts Associated with Criteria Air Pollutants.

The Court of Appeal's error in requiring the new health impact analysis for criteria air pollutants clearly stems from a misunderstanding of terms of art commonly used in the air pollution field. More specifically, the Court of Appeal (and Appellants Sierra Club et al.) appear to have confused the health risk analysis ("HRA") performed to determine the health impacts associated with a project's toxic air contaminants ("TACs"), with an analysis correlating a project's criteria air pollutants (ozone, PM and the like) with specific localized health impacts.

The first type of analysis, the HRA, is commonly performed during the Air District's stationary source permitting process for projects that emit TACs and is, thus, incorporated into the CEQA review process. An HRA is a comprehensive analysis to evaluate and predict the dispersion of TACs emitted by a project and the potential for exposure of human populations. It also assesses and quantifies both the individual and population-wide health risks associated with those levels of exposure. There is no similar analysis conducted for criteria air pollutants. Thus, the second type of analysis (required by the Court of Appeal), is not currently part of the Air District's process because, as outlined above, the health risks associated

with exposure to criteria pollutants are evaluated on a regional level based on the region's attainment of the NAAQS.

The root of this confusion between the types of analyses conducted for TACs versus criteria air pollutants appears to stem from a comment that was presented to Fresno County by the City of Fresno during the administrative process.

In its comments on the draft EIR, the City of Fresno (the only party to raise this issue) stated:

> [t]he EIR must disclose the human health related effects of the Project's air pollution impacts. (CEQA Guidelines section 15126.2(a).) The EIR fails completely in this area. The EIR should be revised to disclose and determine the significance of TAC impacts, and of human health risks due to exposure to Project-related air emissions.

(AR 4602.)

In determining that the issue regarding the correlation between the Friant Ranch project's criteria air pollutants and adverse health impacts was adequately exhausted at the administrative level, the Court of Appeal improperly read the first two sentences of the City of Fresno's comment in isolation rather than in the context of the entire comment. *See Sierra Club v. County of Fresno* (2014) 172 Cal.Rptr.3d 271, 306. Although the comment first speaks generally in terms of "human health related effects" and "air pollution," it requests only that the EIR be revised to disclose "the significance of TACs" and the "human health risks due to exposure."

The language of this request in the third sentence of the comment is significant because, to an air pollution practitioner, the language would only have indicated only that a HRA for TACs was requested, and not a separate analysis of the health impacts associated with the project's criteria air pollutants. Fresno County clearly read the comment as a request to perform an HRA for TACs and limited its response accordingly. (AR 4602.)[17] The Air District submits that it would have read the City's comment in the same manner as the County because the City's use of the terms "human health risks" and "TACs" signal that an HRA for TACs is being requested. Indeed, the Air District was also concerned that an HRA be conducted, but understood that it was not possible to conduct such an analysis until the project entered the phase where detailed site specific information, such as the types of emission sources and the proximity of the sources to sensitive receptors became available. (AR 4553.)[18] The City of Fresno was apparently satisfied with the County's discussion of human health risks, as it did not raise the issue again when it commented on the final EIR. (AR 8944 – 8960.)

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[17] Appellants do not challenge the manner in which the County addressed TACs in the EIR. (Appellants' Answer Brief p. 28 fn. 7.)

[18] Appellants rely on the testimony of Air District employee, Dan Barber, as support for their position that the County should have conducted an analysis correlating the project's criteria air pollutant emissions with localized health impacts. (Appellants Answer Brief pp. 10-11; 28.) However, Mr. Barber's testimony simply reinforces the Air District's concern that a risk assessment (HRA) be conducted once the actual details of the project become available. (AR 8863.) As to criteria air pollutants, Mr. Barber's comments are aimed at the Air District's concern about the amount of emissions and the fact that the emissions will make it "more difficult for Fresno County and the Valley to reach attainment which means that the health of Valley residents maybe [sic] adversely impacted." Mr. Barber says nothing about conducting a separate analysis of the localized health impacts the project's emissions may have.

The Court of Appeal's holding, which incorrectly extrapolates a request for an HRA for TACs into a new analysis of the localized health impacts of the project's criteria air pollutants, highlights two additional errors in the Court's decision.

First, the Court of Appeal's holding illustrates why the Court should have applied the deferential substantial evidence standard of review to the issue of whether the EIR's air quality analysis was sufficient. The regulation of air pollution is a technical and complex field and the Court of Appeal lacked the expertise to fully appreciate the difference between TACs and criteria air pollutants and tools available for analyzing each type of pollutant.

Second, it illustrates that the Court likely got it wrong when it held that the issue regarding the criteria pollutant / localized health impact analysis was properly exhausted during the administrative process. In order to preserve an issue for the court, '[t]he "exact issue" must have been presented to the administrative agency....' [Citation.] *Citizens for Responsible Equitable Environmental Development v. City of San Diego*, (2011) 196 Cal.App.4th 515, 527 129 Cal.Rptr.3d 512, 521; *Sierra Club v. City of Orange* (2008) 163 Cal.App.4th 523, 535, 78 Cal.Rptr.3d 1, 13. "'[T]he objections must be sufficiently specific so that the agency has the

opportunity to evaluate and respond to them.' [Citation.]" *Sierra Club v. City of Orange*,163 Cal.App.4th at 536.[19]

As discussed above, the City's comment, while specific enough to request a commonly performed HRA for TACs, provided the County with no notice that it should perform a new type of analysis correlating criteria pollutant tonnages to specific human health effects. Although the parties have not directly addressed the issue of failure to exhaust administrative remedies in their briefs, the Air District submits that the Court should consider how it affects the issues briefed by the parties since "[e]xhaustion of administrative remedies is a jurisdictional prerequisite to maintenance of a CEQA action." *Bakersfield Citizens for Local Control v. City of Bakersfield* (2004) 124 Cal.App.4th 1184, 1199, 22 Cal.Rptr.3d 203.

III. CONCLUSION

For all of the foregoing reasons, the Air District respectfully requests that the portion of the Court of Appeal's decision requiring an analysis correlating the localized human health impacts associated with an individual project's criteria air pollutant emissions be reversed.

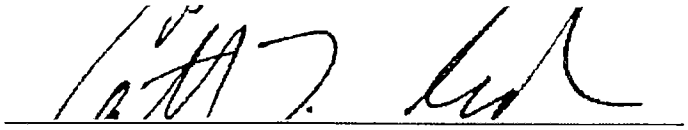
---

[19] *Sierra Club v. City of Orange*, is illustrative here. In that case, the plaintiffs challenged an EIR approved for a large planned community on the basis that the EIR improperly broke up the various environmental impacts by separate project components or "piecemealed" the analysis in violation of CEQA. In evaluating the defense that the plaintiffs had failed to adequately raise the issue at the administrative level, the Court held that comments such as *"the use of a single document for both a project-level and a program-level EIR [is] 'confusing',"* and *"[t]he lead agency should identify any potential adverse air quality impacts that could occur from all phases of the project and all air pollutant sources related to the project,"* were too vague to fairly raise the argument of piecemealing before the agency. *Sierra Club v. City of Orange*, 163 Cal.App.4th at 537.

correlating the localized human health impacts associated with an individual project's criteria air pollutant emissions be reversed.

Respectfully submitted,

Dated: April 2, 2015



Catherine T. Redmond
Attorney for Proposed Amicus Curiae

SAN JOAQUIN VALLEY
UNIFIED
AIR POLLUTION CONTROL
DISTRICT

CERTIFICATE OF WORD COUNT

Pursuant to Rule 8.204 of the California Rules of Court, I hereby certify that this document, based on the Word County feature of the Microsoft Word software program used to compose and print this document, contains, exclusive of caption, tables, certificate of word count, signature block and certificate of service, 3806 words.

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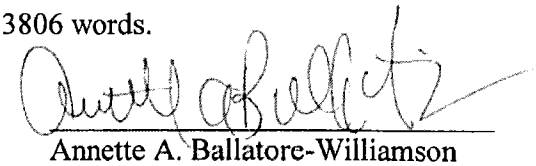

Annette A. Ballatore-Williamson
District Counsel (SBN 192176)

Sierra Club et al, v. County of Fresno, et al
Supreme Court of California Case No.: S219783
Fifth District Court of Appeal Case No.: F066798
Fresno County Superior Court Case No.: 11CECG00726

PROOF OF SERVICE

I am over the age of 18 years and not a p[arty to the above-captioned action; that my business address is San Joaquin Valley Unified Air Pollution Control District located at 1990 E. Gettysburg Avenue, Fresno, California 93726.

On April 2, 2015, I served the document described below:

APPLICATION FOR LEAVE TO FILE AMICUS CURIAE BRIEF OF SAN JOAQUIN VALLEY UNIFIED AIR POLLUTION CONTROL DISTRICT IN SUPPORT OF DEFENDANT AND RESPONDENT, COUNTY OF FRESNO

On all parties to this action at the following addresses and in the following manner:

PLEASE SEE ATTACHED SERVICE LIST

(XX) **(BY MAIL)** I caused a true copy of each document(s) to be laced in a sealed envelope with first-class postage affixed and placed the envelope for collection. Mail is collected daily at my office and placed in a United State Postal Service collection box for pick-up and delivery that same day.

( ) **(BY ELECTRONIC MAIL)** I caused a true and correct scanned image (.PDF file) copy to be transmitted via electronic mail transfer system in place at the San Joaquin Valley Unified Air Pollution Control District ("District"), originating from the undersigned at 1990 E. Gettysburg Avenue, Fresno, CA, to the address(es) indicated below.

( ) **(BY OVERNIGHT MAIL)** I caused a true and correct copy to be delivered via Federal Express to the following person(s) or their representative at the address(es) listed below.

I declare under penalty of perjury under the laws of the State of California that the foregoing is true and correct and that I executed this document on April 2, 2015, at Fresno, California.

Esthela Soto

SERVICE LIST

Sierra Club et al, v. County of Fresno, et al
Supreme Court of California Case No.: S219783
Fifth District Court of Appeal Case No.: F066798
Fresno County Superior Court Case No.: 11CECG00726

Sara Hedgpeth-Harris, Esq. LAW OFFICE OF SARA HEDGPETH-HARRIS 2125 Kern Street, Suite 301 Fresno, California 93721 Telephone: (559) 233-0907 Facsimile: (559) 272-6046 Email: sara.hedgpethharris@shh-law.com	Attorney for Plaintiffs and Appellants, Sierra Club, et al
Daniel C. Cederborg, Esq. Bruce B. Johnson, Jr., Esq. OFFICE OF THE FRESNO COUNTY COUNSEL 2220 Tulare Street, Suite 500 Fresno, California 93721 Telephone: (559) 600-3479 Facsimile: (559) 600-3480 Email: bjohnson@co.fresno.ca.us	Attorneys for Defendant and Respondent, County of Fresno
Bryan N. Wagner, Esq. WAGNER & WAGNER 7110 N. Fresno Street, Suite 340 Fresno, California 93720 Telephone: (559) 224-0871 Facsimile: (559) 224-0885 Email: bryan@wagnerandwagner.com	Attorneys for Real Party in Interest/Respondent Friant Ranch, L.P.
Clerk of the Court Superior Court of California County of Fresno 1130 'O' Street Fresno, California 93721 Telephone: (559) 457-1900	
Clerk of the Court Fifth District Court of Appeal 2424 Ventura Street Fresno, California 93721 Telephone: (559) 445-5491	

R. Tyson Sohagim, Esq. THE SOHAGI LAW GROUP 11999 San Vicente Blvd., Suite 150 Los Angeles, California 90049 Telephone: (310) 475-5700 Facsimile: (310) 475-5707 Email: tsohagi@sohagi.com	Attorney for Amici Curiae; League of California Cities, and the California State Association of Counties
Marcia L. Scully, Esq. General Counsel METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA Post Office Box 54153 Los Angeles, California 90054 Telephone: (213) 217-6115	Attorney for Amicus Curiae, The Metropolitan Water District of Southern CA
Amy Minteer, Esq. CHATEN-BROWN & CARSTENS LLP 2200 Pacific Coast Highway, Suite 318 Hermosa Beach, California 90254 Telephone: (310) 798-2400 Facsimile: (310) 798-2402 Email: ACM@CBCEarthlaw.com	Attorney for Amici Curiae, Association of Irritated Residents, Medical Advocates for Healthy Air, and Coalition for Clean Air
Shanda M. Beltran, Esq. General Counsel BUILDING INDUSTRY LEGAL DEFENSE FOUNDATION 17744 Sky Park Cr., Suite 170 Irvine, California 92614 Telephone: (949) 553-9500 Facsimile: (949) 769-8943 Email: sbeltran@biasc.org	Attorney for Amicus Curiae, Building Industry Legal Defense Foundation
Gene Talmadge, President CALIFORNIA ASSOCIATION OF ENVIRONMENTAL PROFESSIONALS 40747 Baranda Court Palm Desert, California 92260 Telephone: (760) 340-4499 Facsimile: (760) 674-2479	Attorney for Amicus Curiae, California Association of Environmental Professionals
Jennifer L. Hernandez, Esq. HOLLAND & KNIGHT LLP 50 California Street, Suite 2800 San Francisco, California 94111	On behalf of Amicus Curiae, CEQA Research Council

Telephone: (415) 743-6927 Facsimile: (415) 743-6910 Email: Jennifer.hernandez@hklaw.com	

Appendix E

Archaeological Resources Technical Report

California State University, Fullerton Master Plan Update Project

Archaeological Resources Technical Report

prepared for
California State University, Fullerton
Capital Programs & Facilities Management
800 N State College Blvd, T-300
Fullerton, California 92831

prepared by
Rincon Consultants, Inc.
250 East 1st Street, Suite 1400
Los Angeles, California 90012

January 2020

RINCON CONSULTANTS, INC.
Environmental Scientists | Planners | Engineers
rinconconsultants.com

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Executive Summary

Rincon Consultants, Inc. (Rincon) was retained by California State University, Fullerton (CSUF) to conduct an archaeological resources study for the proposed CSUF Master Plan Update Project (project) in the City of Fullerton, Orange County, California. This archaeological resources study included a cultural resources records search, Native American outreach, pedestrian field survey of the project site, and preparation of this technical report. An analysis of the historic-era built-environment resources for the project is provided in an accompanying, separate report. This study has been completed in accordance with the requirements of the California Environmental Quality Act (CEQA).

Based on the results of the study, no archaeological resources (prehistoric or historic) were identified within the project site. Therefore, Rincon recommends a finding of ***less than significant impact to archaeological resources with mitigation*** for the purposes of CEQA. Rincon recommends that a mitigation measure for the unanticipated discovery of archaeological resources be added to the CSUF Master Plan Update. The project is also required to adhere to regulations regarding the unanticipated discovery of human remains, detailed below.

Unanticipated Discovery of Cultural Resources

If cultural resources are encountered during ground-disturbing activities, work in the immediate area must halt and an archaeologist meeting the Secretary of the Interior's Professional Qualifications Standards for archaeology (National Park Service 1983) should be contacted immediately to evaluate the find. If the discovery proves to be significant under CEQA, additional work such as data recovery excavation and Native American consultation may be warranted to mitigate any significant impacts.

Unanticipated Discovery of Human Remains

The discovery of human remains is always a possibility during ground disturbing activities. If human remains are found, the State of California Health and Safety Code Section 7050.5 states that no further disturbance shall occur until the County coroner has made a determination of origin and disposition pursuant to Public Resources Code Section 5097.98. In the event of an unanticipated discovery of human remains, the County coroner must be notified immediately. If the human remains are determined to be prehistoric, the coroner will notify the Native American Heritage Commission (NAHC), which will determine and notify a most likely descendant (MLD). The MLD has 48 hours from being granted site access to make recommendations for the disposition of the remains. If the MLD does not make recommendations within 48 hours, the landowner shall reinter the remains in an area of the property secure from subsequent disturbance.

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1 Introduction

Rincon Consultants, Inc. (Rincon) was retained by California State University, Fullerton (CSUF) to conduct an archaeological resources study for the proposed CSUF Master Plan Update Project (project) in the City of Fullerton, Orange County, California. This study included a California Historical Resources Information Center (CHRIS) records search, Native American outreach, pedestrian field survey, and preparation of this technical report. An analysis of the historic-era built-environment resources for the project is provided in an accompanying, separate report. This study has been completed in accordance with the requirements of the California Environmental Quality Act (CEQA).

1.1 Project Location

The project site is the campus of CSUF, which is located at 800 North State College Boulevard in the City of Fullerton, Orange County (Figure 1). The campus is bordered by Yorba Linda Boulevard on the north, Chapman Avenue on the south, State College Boulevard on the west, and State Route 57 (SR 57), the Orange Freeway, on the east. Lying approximately 6.5 miles east of Fullerton Creek, the project site is depicted on Township 03S, Range 10W, Sections 24-25 of the United States Geological Survey (USGS) La Habra CA 7.5-minute quadrangle (Figure 2). The project site encompasses approximately 240 acres.

1.2 Project Description

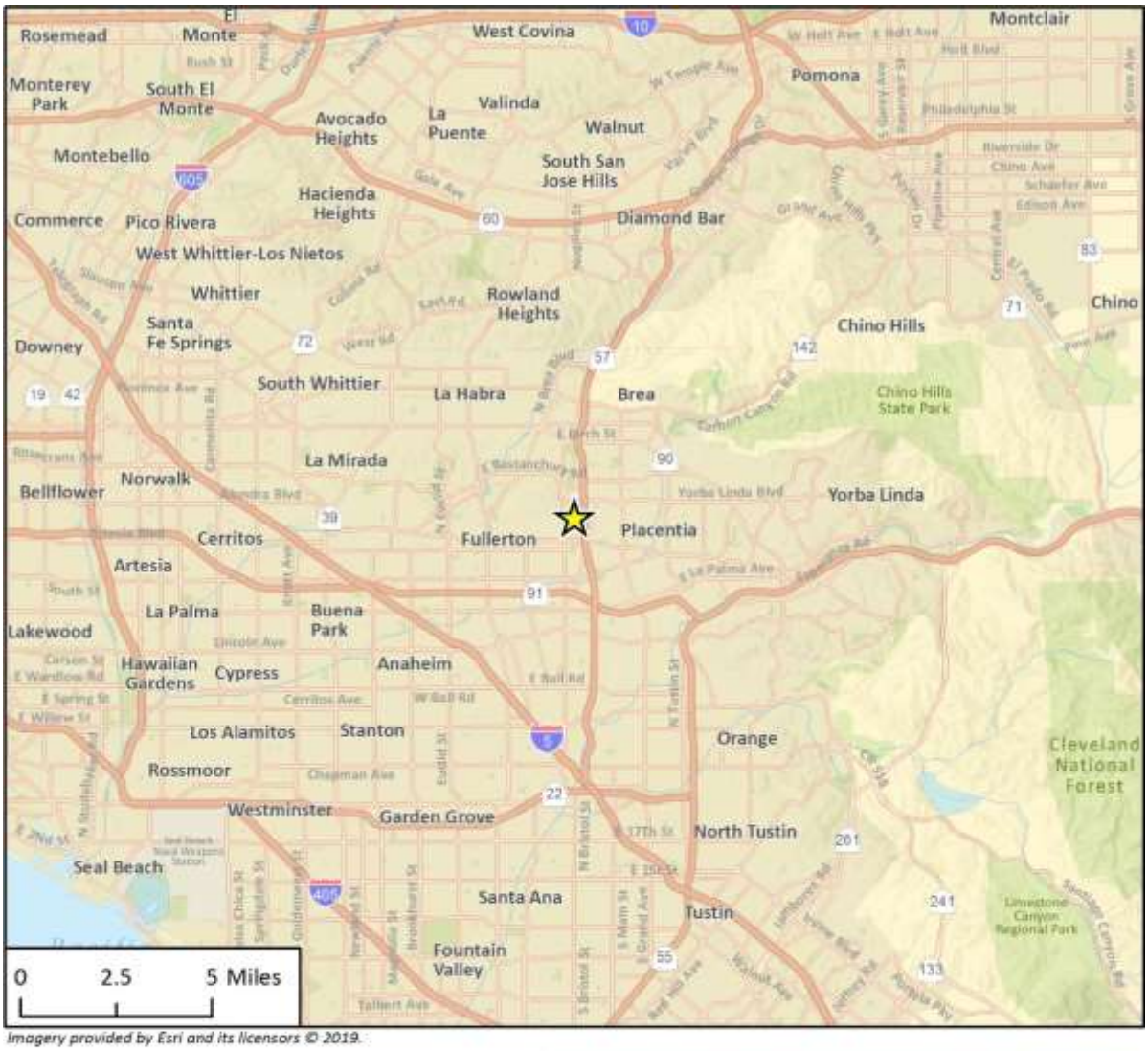
The proposed CSUF Educational and Facilities Master Plan Update, also referred to as the Campus Master Plan (CMP), is an update of the CSUF Master Development Plan (MDP). The CMP serves as a guide for the future development of the CSUF campus and strategy for modifying the physical campus of CSUF to accommodate expected growth through the year 2039. The CMP presents an overall picture of the future of the CSUF campus and includes recommendations for land use, new construction, enhancement and replacement of existing facilities, mobility networks, and sustainable practices. The project will include addition of new, and replacement of old, academic buildings and housing. The design of these new facilities will provide increased informal learning spaces, distributed throughout existing, new, and exterior spaces. These will be complimented with improved dining and campus living amenities to increase the ability for students to remain on campus before, between, and after classes.

1.3 Personnel

Rincon Architectural Historian Alexandra Madsen, MA, completed the cultural resources records search for this archaeological resources study. Rincon Archaeologist Tricia Dodds, MA, Registered Professional Archaeologist (RPA), conducted the pedestrian field survey. Rincon Archaeologist Mark Strother, MA, undertook the Native American outreach and is the primary author of this report. Rincon Senior Archaeologist Tiffany Clark, PhD, RPA, provided management oversight for this study and is a contributing author of this report. Ms. Clark meets the Secretary of the Interior's Professional Qualifications Standards for prehistoric and historic archaeology (National Park Service

1983). Rincon Geographic Information Systems (GIS) Analyst Allysen Valencia prepared the figures for this report. Rincon Principal Christopher Duran, M.A., RPA reviewed this report for quality control.

Figure 1 Regional and Vicinity Maps



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Project Location

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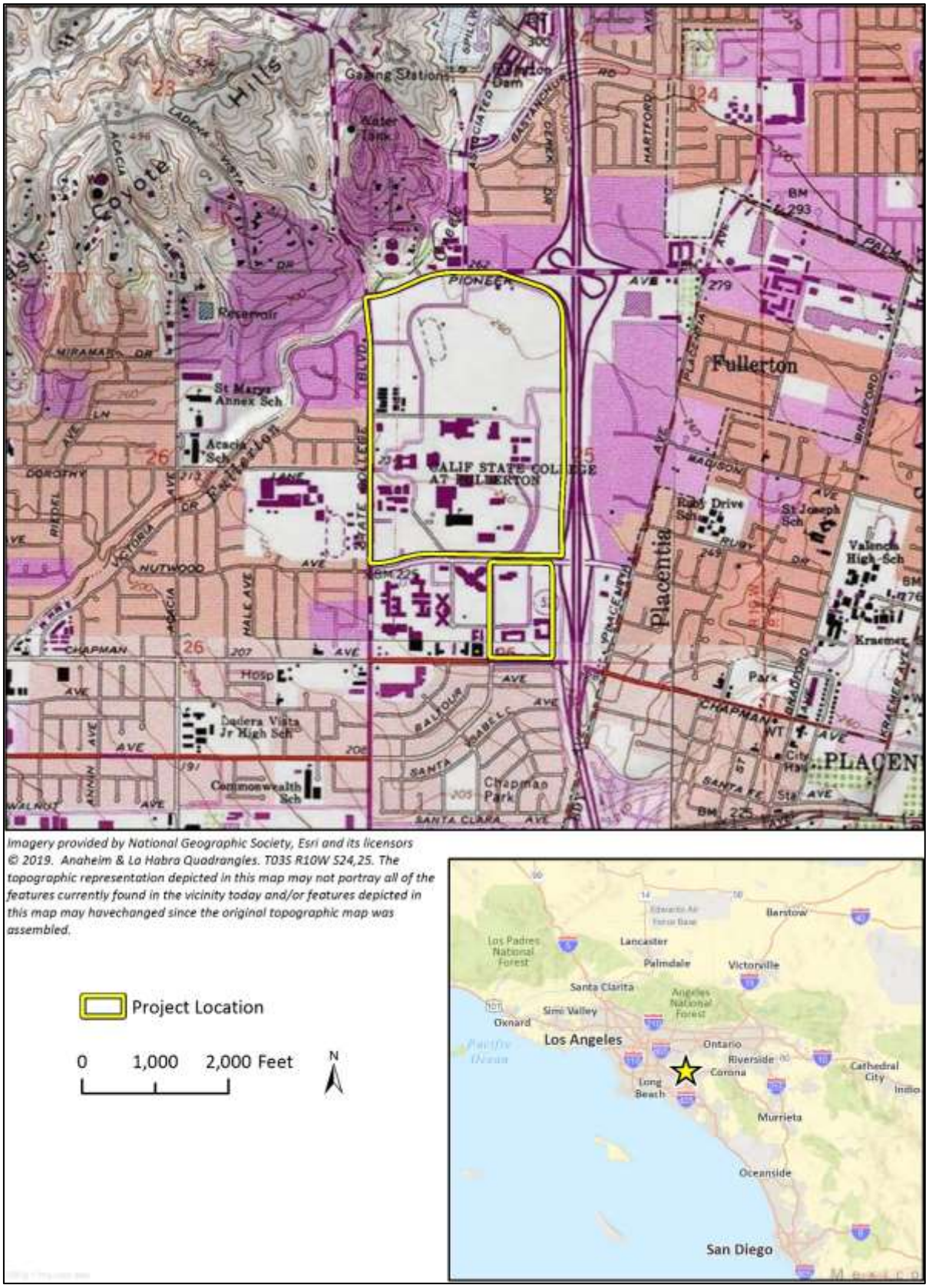
Figure 2 Project Location Map



Imagery provided by National Geographic Society, Esri and its licensors © 2019. Anaheim & La Habra Quadrangles. T03S R10W S24,25. The topographic representation depicted in this map may not portray all of the features currently found in the vicinity today and/or features depicted in this map may havechanged since the original topographic map was assembled.

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2 Regulatory Setting

2.1 California Environmental Quality Act

CEQA requires a lead agency to determine whether a project may have a significant effect on historical resources (Public Resources Code [PRC], Section 21084.1) or tribal cultural resources (PRC Section 21074[a] [1] [A]-[B]). A historical resource is a resource listed, or determined to be eligible for listing in the California Register of Historical Resources (CRHR); a resource included in a local register of historical resources; or an object, building, structure, site, area, place, record, or manuscript which a lead agency determines to be historically significant (State CEQA Guidelines, Section 15064.5[a] [1-3]).

A resource shall be considered historically significant if it meets any of the following criteria:

1. Is associated with events which made a significant contribution to the broad patterns of California's history and cultural heritage
2. Is associated with the lives of persons important to our past
3. Embodies the distinctive characteristics of a type, period, region, or method of construction, or represents the work of an important creative individual, or possesses high artistic values
4. Has yielded, or may be likely to yield, information important in prehistory or history

Generally, a cultural resource must be at least 50 years of age to be considered for listing on the CRHR. Resources having achieved significance within the past 50 years may also be eligible for inclusion in the CRHR, provided enough time has lapsed to obtain a scholarly perspective on the events or individuals associated with the resource (Office of Historic Preservation n.d.:3).

In addition, if it can be demonstrated a project would cause damage to a *unique archaeological resource*, the lead agency may require reasonable efforts be made to permit any or all of these resources to be preserved in place or left in an undisturbed state. To the extent resources cannot be left undisturbed, mitigation measures are required (PRC Section 21083.2[a], [b]).

PRC Section 21083.2(g) defines a *unique archaeological resource* as an artifact, object, or site about which it can be clearly demonstrated, without merely adding to the current body of knowledge, there is a high probability it meets any of the following criteria:

1. Contains information needed to answer important scientific research questions and there is a demonstrable public interest in such information
2. Has a special and particular quality such as being the oldest of its type or the best available example of its type
3. Is directly associated with a scientifically recognized important prehistoric or historic event or person

2.2 Assembly Bill 52

As of July 1, 2015, California Assembly Bill 52 (AB 52) was enacted and expands CEQA by defining a new resource category called tribal cultural resources (TCRs). AB 52 establishes "a project with an effect that may cause a substantial adverse change in the significance of a TCR is a project that may have a significant effect on the environment" (PRC Section 21084.2). It further states the lead agency shall establish measures to avoid impacts which would alter the significant characteristics of a TCR, when feasible (PRC Section 21084.3).

PRC Section 21074(a)(1)(A) and (B) defines TCRs as "sites, features, places, cultural landscapes, sacred places, and objects with cultural value to a California Native American tribe" and meets either of the following criteria:

1. Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources, as defined in PRC Section 5020.1(k)
2. A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of PRC 5024.1.

In applying these criteria, the lead agency shall consider the significance of the resource to a California Native American tribe. AB 52 also establishes a formal consultation process for California tribes regarding TCRs. The consultation process must be completed before a CEQA document can be certified. Under AB 52, lead agencies are required to "begin consultation with a California Native American tribe that is traditionally and culturally affiliated with the geographic area of the proposed project." Native American tribes to be included in the process are those having requested notice of projects proposed within the jurisdiction of the lead agency.

3 Cultural Setting

The cultural setting for the project is presented broadly in three overviews: Prehistoric, Ethnographic, and Historic. The prehistoric and historic overviews describe human occupation before and after European contact, while the ethnographic overview provides a brief summary of traditional Native American culture.

3.1.1 Prehistoric Overview (ca. 9600 – 5600 BCE)

The project site lies in what generally is described as California's Southern Bight (Byrd and Raab 2007). This region extends from the Mexican border to Santa Monica and includes Orange and San Diego counties, western Riverside County, and the Southern Channel Islands. For the purposes of this study, the prehistoric cultural chronology for the Southern Bight is presented following Byrd and Raab (2007), who have divided the chronology into the Early (9600- 5600 BCE), Middle (5600-1650 BCE), and Late (1650 BCE- 1769 CE) Holocene.

3.1.2 Early Holocene (ca. 9600 – 5600 BCE)

Evidence of Paleo-Indian occupation of southern California remains very limited. Approximately 75 sites on the southern and central California coast are known that date to 7,500 years before present (B.P.; Erlandson 1991). The earliest accepted dates for human occupation of the California coast are from the Northern Channel Islands, off the Santa Barbara coast. Daisy Cave, located on San Miguel Island, dates to as early as 9,600 BCE. At the Arlington Springs site on Santa Rosa Island human remains yielded a date of approximately 10,000 BCE (Johnson et al. 2002). San Diego and Orange counties and the Southern Channel Islands have not produced dates as early as these. However, radiocarbon evidence has dated early occupation of the coastal region between circa (ca.) 8,000 and 7,000 BCE (Byrd and Raab 2007).

Traditional models describe California's first inhabitants as big-game hunters roaming North America during the end of the last Ice Age. As the Ice Age came to a close, warmer and drier climatic conditions are thought to have created wide-spread cultural responses. The pluvial lakes and streams in the desert interior began to wane and cultures dependent on these water sources migrated to areas with moister conditions, such as the southern California coast (Byrd and Raab 2007).

3.1.3 Middle Holocene (ca. 5600 –1650 BCE)

The Middle Holocene is generally viewed as a time of cultural transition. During this time, the cultural adaptations of the Early Holocene gradually altered. Use of milling stone tools began to appear across most of central and southern California around 6,000-5,000 BCE, indicating a focus on the collection and processing of hard-shelled seeds. Environmental changes in the Southern Bight are thought to have been the key factor in these changing adaptations (Byrd and Raab 2007). Occupation patterns indicated semi-sedentary populations focused on the bays and estuaries of San Diego and Orange counties, with shellfish and plant resources as the most important dietary

components (Warren 1968). In the San Diego area, this adaptive strategy is known as the La Jolla complex.

Sometime around 4,000 years ago, extensive estuarine silting began to cause a decline in shellfish and thus a depopulation of the coastal zone. Settlement shifted to river valleys, and resource exploitation focused on hunting small game and gathering plant resources (Warren 1968; Byrd and Raab 2007).

3.1.4 Late Holocene (ca. 1650 BCE – 1769 CE)

The Late Holocene witnessed numerous cultural adaptations. The bow and arrow was adopted sometime after 500 CE, and ceramics appeared in the area ca. 1000 CE. Populations were sustained by food surpluses, especially acorns (Byrd and Raab 2007; Kroeber 1925). Other exploited food resources include shellfish, fish, small terrestrial mammals, and small-seeded plants. Settlement patterns of the Late Holocene are characterized by large residential camps linked to smaller specialized camps for resource procurement (Byrd and Raab 2007).

3.2 Ethnographic Overview

The project site is located within the traditional territory of the Native American group known as the Gabrielino. The name Gabrielino was applied by the Spanish to those natives that were attached to Mission San Gabriel (Bean and Smith 1978:538). Today, most contemporary Gabrielino prefer to identify themselves as Tongva, a term that will be used throughout the remainder of this section.

Tongva territory included the Los Angeles basin and southern Channel Islands as well as the coast from Aliso Creek in the south to Topanga Creek in the north. Their territory encompassed several biotic zones, including Coastal Marsh, Coastal Strand, Prairie, Chaparral, Oak Woodland, and Pine Forest (Bean and Smith 1978).

The Tongva language belongs to the Takic branch of the Uto-Aztecan language family, which can be traced to the Great Basin region (Mithun 2004). This language family includes dialects spoken by the nearby Juaneño and Luiseño, but is considerably different from those of the Chumash people living to the north and the Diegueño (including Ipai, Tipai, and Kumeyaay) people living to the south.

Tongva society was organized along patrilineal non-localized clans, a common Takic pattern. Each clan had a ceremonial leader and contained several lineages. The Tongva established large permanent villages and smaller satellite camps throughout their territory. Recent ethnohistoric work (O'Neil 2002) suggests a total tribal population of nearly 10,000, considerably more than earlier estimates of around 5,000 people (Bean and Smith 1978:540).

Tongva subsistence was oriented around acorns supplemented by the roots, leaves, seeds, and fruits of a wide variety of plants. Meat sources included large and small mammals, freshwater and saltwater fish, shellfish, birds, reptiles, and insects. (Bean and Smith 1978; Kroeber 1925; McCawley 1996). The Tongva employed a wide variety of tools and implements to gather and hunt food. The digging stick, used to extract roots and tubers, was frequently noted by early European explorers (Rawls 1984). Other tools included the bow and arrow, traps, nets, blinds, throwing sticks and slings, spears, harpoons, and hooks. Like the Chumash, the Tongva made oceangoing plank canoes (known as a ti'at) capable of holding six to 14 people and used for fishing, travel, and trade between the mainland and the Channel Islands. Tule reed canoes were employed for near-shore fishing (Blackburn 1963; McCawley 1996:117-127).

Chinigchinich, the last in a series of heroic mythological figures, was central to Tongva religious life at the time of Spanish contact (Kroeber 1925:637–638). The belief in Chinigchinich was spreading south among other Takic-speaking groups at the same time the Spanish were establishing Christian missions. Elements of Chinigchinich beliefs suggest it was a syncretic mixture of Christianity and native religious practices (McCawley 1996:143-144).

Prior to European contact, deceased Tongva were either buried or cremated, with burial more common on the Channel Islands and the adjacent mainland coast and cremation on the remainder of the coast and in the interior (McCawley 1996:157). After pressure from Spanish missionaries, cremation essentially ceased during the post-contact period (McCawley 1996:157).

3.3 Historic Overview

The post-Contact history of California is generally divided into three periods: the Spanish period (1769–1822), the Mexican period (1822–1848), and the American period (1848–present). These historical periods are described below.

3.3.1 Spanish Period (1769–1822)

Spanish exploration of California began when Juan Rodriguez Cabrillo led the first European expedition into the region in 1542. For more than 200 years after his initial expedition, Spanish, Portuguese, British, and Russian explorers sailed the California coast and made limited inland expeditions, but they did not establish permanent settlements (Bean 1968; Rolle 2003). In 1769, Gaspar de Portolá and Franciscan Father Junípero Serra established the first Spanish settlement in what was then known as Alta (upper) California at Mission San Diego de Alcalá. This was the first of 21 missions erected by the Spanish between 1769 and 1823. It was during this time that initial Spanish settlement of the project vicinity began. The land that currently encompasses Fullerton was part of the Spanish Mission San Gabriel Arcángel in the 18th century.

3.3.2 Mexican Period (1822–1848)

The Mexican Period commenced when news of the success of the Mexican War of Independence (1810-1821) against the Spanish crown reached California in 1822. This period saw the privatization of mission lands in California with the passage of the Secularization Act of 1833. This Act federalized mission lands and enabled Mexican governors in California to distribute former mission lands to individuals in the form of land grants. Successive Mexican governors made more than 700 land grants between 1822 and 1846, putting most of the state's lands into private ownership for the first time (Shumway 2007).

The Mexican Period for the Orange County region ended in early January 1847. Mexican forces fought and lost to combined U.S. Army and Navy forces in the Battle of the San Gabriel River on January 8 and in the Battle of La Mesa on January 9 (Nevin 1978). On January 10, leaders of the pueblo of Los Angeles surrendered peacefully after Mexican General José María Flores withdrew his forces. Shortly thereafter, newly appointed Mexican Military Commander of California Andrés Pico surrendered all of Alta California to U.S. Army Lieutenant Colonel John C. Fremont in the Treaty of Cahuenga (Nevin 1978).

3.3.3 American Period (1848–Present)

The American Period officially began with the signing of the Treaty of Guadalupe Hidalgo in 1848, in which the United States agreed to pay Mexico $15 million for conquered territory including California, Nevada, Utah, and parts of Colorado, Arizona, New Mexico, and Wyoming. Settlement of the Los Angeles region increased dramatically in the early American Period.

The discovery of gold in northern California in 1848 led to the California Gold Rush, though the first significant amount of California gold was previously discovered in Placerita Canyon in Los Angeles County in 1842 (Guinn 1977; Workman 1935:26). By 1853, the population of California exceeded 300,000. Thousands of settlers and immigrants continued to immigrate to the state, particularly after the completion of the First Transcontinental Railroad in 1869. The U.S. Congress in 1854 agreed to let San Pedro in Los Angeles County become an official port of entry. By the 1880s, the railroads had established networks from the port and throughout Los Angeles and Orange counties, resulting in fast and affordable shipment of goods, as well as a means to transport new residents to the booming region (Dumke 1944). New residents included many health-seekers drawn to the area by the fabled climate in the 1870s–1880s.

As populations increased, Orange County was created from the southern portion of Los Angeles County. Agriculture remained the primary economic activity until the 1950s, when the county's agricultural land was replaced with tract housing developments. In the mid-20th century, aerospace and manufacturing began expanding, and the opening of Disneyland created an international tourism industry (Orange County Historical Society 2015).

3.3.4 California State University, Fullerton

Originally known as Orange County State College, the university was founded in 1957 on a site still home to a number of citrus farms and agricultural fields. After the college was established, construction of buildings, classrooms, and facilities began in the southern portion of the campus. As the university expanded, the campus expanded, primarily to the north, east, and west, in stages over time.

The campus core was designed and constructed primarily through four major building campaigns and master planning efforts, in 1960, 1962, 1967, and 1974. Although the campus continued to expand through the years, including a gradual northward expansion as former citrus groves gave way to buildings, the focal point of the campus remained (and remains) the 1960s-1970s campus core. This development pattern reflects the rapid postwar expansion and construction boom in Fullerton and Orange County in general. In addition, with the heart of the campus designed and constructed within a short period of time, during the heyday of New Formalism, Brutalism, and Late Modernism, in particular in institutional design, the campus core exhibits cohesive unified architectural character and style.

4 Records Search and Outreach

4.1 Cultural Resources Records Search

On June 18, 2019, Rincon conducted a CHRIS records search at the South Central Coastal Information Center (SCCIC) located at California State University, Fullerton. The search was completed to identify previous cultural resources work and previously recorded cultural resources within a 0.5-mile radius of the project site. The search included a review of the National Register of Historic Place (NRHP), CRHR, California Points of Historical Interest list, the California Historical Landmarks list, the Archaeological Determinations of Eligibility list, and the California State Historic Resources Inventory list. The records search also included a review of all available historical USGS 7.5-, 15-, and 30-minute quadrangle maps.

4.1.1 Previous Studies

The SCCIC records search identified 24 previous studies within a 0.5-mile search radius of the project site. Of these, six included portions of the project site. Together, these previous studies inventoried approximately 40 percent the current project site. Table 1 provides a summary of the studies found in the search radius; the records search results are attached in Appendix A.

Table 1 Previous Cultural Resources Studies within 0.5-mile of the Project Site

Report Number	Author(s)	Year	Title	Relationship to Project Site
OR-00416	Reissen, Herbert	1979	*The Placentia Grass-Eaters a Burial Analysis and Report on Two Skeletons*	Outside
OR-00554	Cottrell, Marie	1977	*Cultural Resource Survey for 13.7 Acres in the City of Placentia*	Outside
OR-00678	Tadlock, W.L.	1976	*Archaeological Element of an Environment Impact Report for a Portion of California State University Fullerton Campus*	**Within**
OR-00985	Brown, Joan	1989	*Cultural Resources Reconnaissance of the 375 Acre East Coyote Hills Project, Fullerton, California*	Outside
OR-02256	Demcak, Carole	1999	*Cultural Resources Assessments for Orange County Sanitation Districts*	Outside
OR-02280	Duke, Curt	2000	*Cultural Resource Assessment for AT&T Fixed Wireless Services Facility Number OC-420A, Orange County, California*	Outside
OR-02538	Duke, Curt	2002	*Cultural Resource Assessment Cingular Wireless Facility Number SM-195-01*	**Within**

Report Number	Author(s)	Year	Title	Relationship to Project Site
OR-02795	Harper, Caprice	2002	*Cultural Resource Assessment Cingular Wireless Facility Number SC 046-02 Orange County, California*	Outside
OR-02799	Duke, Curt	2002	*Cultural Resource Assessment Cingular Wireless Facility Number SC 046-01 Orange County, California*	Outside
OR-02808	Duke, Curt	2002	*Cultural Resource Assessment AT&T Wireless Services Facility Number 13067A Orange County, California*	Outside
OR-03033	Kyle, Carolyn E.	2004	*Cultural Resource Assessment for AT&T Wireless Facility Number 950-013-305c, 1600 North Acacia Avenue, City of Fullerton, Orange County, California*	Outside
OR-03215	Bonner, Wayne	2005	*Cultural Resources Records Search Results and Site Visit for Cingular Wireless Candidate, 1930 North Placentia Avenue, Fullerton, Orange County, California*	Outside
OR-03393	Wlodarski, Robert	2006	*Record Search and Field Survey for the Proposed Bechtel Corporation Wireless Telecommunications Site Lsancac420 (57 Freeway/Yorba Linda) Located at 1535 Deerpark Drive, Fullerton, Orange County, California 92831*	Outside
OR-03721	Bonner, Wayne	2007	*Cultural Resources Records Search and Site Visit Results for T-Mobile Candidate LA23632C (Crowther Rental), Placentia, Orange County, California*	Outside
OR-03733	Duke, Curt	1999	*Cultural Resources Assessment for Pacific Bell Mobile Services Facility CM-423-01, Orange County, California*	**Within**
OR-03822	Harper, Caprice	2006	*Historic Property Survey Report and Archaeological Survey Report for the State Route 57 Northbound Widening Project 0.3 km South of Orangethorpe Avenue to 0.2 km North of Lambert Road in the Cities of Placentia, Fullerton, and Brea, Orange County, California*	Outside
OR-03887	Fulton, Phil	2013	*Cultural Resource Assessment Class I Inventory, Verizon Wireless Services CSUF Facility, City of Fullerton, Orange County, California*	Outside
OR-04060	Bonner, Wayne	2009	*Cultural Resources Records Search and Site Visit Results for TowerCo II, LLC CA2572 (Saito), 800 North State College Boulevard, Fullerton, Orange County, California*	**Within**

Report Number	Author(s)	Year	Title	Relationship to Project Site
OR-04079	DeGraaf, Larry, Pat Jertberg, Marie Schmidt, April Octtavain, Eliva Torres, Cecil Rospaw, Karin Aunis, Karen Nebeker, John Clark, Robert Carlson, Deborah Deeble, Timothy Nagle, Gretchen Snyder, Gloria Villareal, William Myers, Laura Turner	1988	*Placentia Historic Resources Survey*	Outside
OR-04104	Antram, Marie, Shannon Orr, Liliana Vasquez, L. de Graaf, and Pat Jertberg	2002	*Historic Resource Inventory for the City of Placentia: Update 2002*	Outside
OR-04227	McKenna, Jeanette	2012	*Addendum Report: A Cultural Resources Investigation for the College Town at Cal State Fullerton Specific Plan Project Area in the City of Fullerton, Orange County, California*	Outside
OR-04284	Mendoza	2012	*Center for Oral and Public History (COPH), relocation and expansion of the COPH*	**Within**
OR-04342	Brown, Joan C.	1990	*Test Phase of a Portion of the East Coyote Hills Unocal Project, Fullerton, California*	Outside

Source: South Central Coastal Information Center 2019

4.1.2 Previously Recorded Resources

The SCCIC records search identified 11 previously recorded cultural resources situated within a 0.5-mile radius of the project site. These resources consist of 10 historic-period buildings and 1 historic-period tree. Table 2 provides a summary of the previously recorded cultural resources within the record search area; these resources are discussed in more detail in the historical resources evaluation report that was prepared for the project. No archaeological resources have been recorded within the project site or record search area.

Table 2 Previously Recorded Cultural Resources within 0.5-mile of the Project Site

Primary Number	Resource Type	Description	Recorder(s) and Year(s)	NRHP/CRHR Status	Relationship to Project Site
P-30-157295	Historic Building	The Mahr House	Woodard 1979		**Within**

P-30-157296	Historic Building	Hetebrink House	Lemon 1983	**Within**
P-30-157297	Historic Building	Dr. George Clark Home – Heritage House	Moag and Woodard 1976; Meighan 1976; Lemon 1983	**Within**
P-30-162288	Historic Tree	First Macadamia Tetraphylla planted in California	State Historical Resources Commission 1982	Outside
P-30-177087	Historic Building	Charles Fuller Ranch	Orr 2002	Outside
P-30-177092	Historic Building	Nenno House	Vasquez 2002	Outside
P-30-177093	Historic Building	Lewis Lemke House	Antram 2002	Outside
P-30-177117	Historic Building	Hope International University	McKenna 2011	Outside
P-30-177118	Historic Building	LDS Student Center	McKenna 2011	Outside
P-30-177119	Historic Building	Commercial Shopping Center	McKenna 2011	Outside
P-30-177446	Historic Building	Pollak Library	Apel 2012	**Within**

Source: South Central Coastal Information Center 2019

4.2 Native American Outreach

Rincon contacted the Native American Heritage Commission (NAHC) on June 21, 2019 to request a Sacred Lands File (SLF) search of the project site and a contact list of Native Americans who may have knowledge of cultural resources within the area. The NAHC responded on July 5, 2019, stating that the results of the SLF search were negative. Rincon sent letters to the NAHC-listed contacts and conducted follow-up calls on August 12, 2019. At the request of CSUF, Rincon also emailed Jacque Nunez of the Acjachemen Nation on October 16, 2019, to request information on Native American resources within the project vicinity. To date, no contacts have responded to letters or returned calls expressing any project related concerns. The lead agency for this project, CSUF, is conducting formal government-to-government consultation with interested Native American groups in accordance with AB 52. Copies of the Native American outreach correspondence are provided in Appendix B.

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5 Archaeological Field Survey

5.1 Methods

Rincon conducted a pedestrian field survey of the project site on July 15, 2019. The survey was performed using transect intervals spaced no greater than 15 meters, targeting areas of exposed ground surfaces on the CSUF campus. All exposed ground surfaces were examined for artifacts (e.g., flaked stone tools, tool-making debris, stone milling tools, ceramics, fire-affected rock), ecofacts (marine shell and bone), soil discoloration that might indicate the presence of a cultural midden, soil depressions and features indicative of the former presence of structures or buildings (e.g., standing exterior walls, postholes, foundations) or historic debris (e.g., metal, glass, ceramics). Ground disturbances such as burrows and drainages were also visually inspected.

5.2 Results

No archaeological resources were identified as a result of the field survey. Visibility of the ground surface across the project site was generally poor (less than 20 percent) as much of the area is covered with standing buildings and structures, hardscape, and landscaping (Figures 3-7). The small areas of exposed ground surfaces that were inspected by the archaeologist found no evidence of archaeological deposits or remains.

Figure 3 Project Site Overview, View Northwest from Nutwood Avenue

Figure 4 Project Site Overview, View Northeast from Langsford Drive

Figure 5 Project Site Overview, View Northwest from Campus Drive

Figure 6 Project Site Overview, View Southwest from Gym Drive

Figure 7 Project Site Overview, View South from Campus Arboretum

6 Findings and Recommendations

The records search, Native American outreach, and field survey identified no archaeological (prehistoric or historic) resources within the project site. Rincon recommends a finding of ***less than significant impact to archaeological resources with mitigation*** for the purposes of CEQA. Rincon recommends that a mitigation measure for the unanticipated discovery of archaeological resources be added to the CSUF Master Plan Update. The project is also required to adhere to regulations regarding the unanticipated discovery of human remains, detailed below.

Unanticipated Discovery of Cultural Resources

If cultural resources are encountered during ground-disturbing activities, work in the immediate area must halt and an archaeologist meeting the Secretary of the Interior's Professional Qualifications Standards for archaeology (National Park Service 1983) should be contacted immediately to evaluate the find. If the discovery proves to be significant under CEQA, additional work such as data recovery excavation and Native American consultation may be warranted to mitigate any significant impacts.

Unanticipated Discovery of Human Remains

The discovery of human remains is always a possibility during ground disturbing activities. If human remains are found, the State of California Health and Safety Code Section 7050.5 states that no further disturbance shall occur until the County coroner has made a determination of origin and disposition pursuant to Public Resources Code Section 5097.98. In the event of an unanticipated discovery of human remains, the County coroner must be notified immediately. If the human remains are determined to be prehistoric, the coroner will notify the Native American Heritage Commission (NAHC), which will determine and notify a most likely descendant (MLD). The MLD shall complete the inspection of the site within 48 hours of being granted site access and may recommend scientific removal and nondestructive analysis of human remains and items associated with Native American burials.

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Appendix A

Records Search Results

Resource List

CSU Fullerton Parking

Primary No.	Trinomial	Other IDs	Type	Age	Attribute codes	Recorded by	Reports
P-30-157295		Resource Name - Mahr House; Other - zip 92834	Building	Historic	HP02 (Single family property); HP15 (Educational building)	1979 (J. Woodard, Fullerton Historical Building Survey); 1983 (Glenn M. Lemon, CSUF)	OR-04060, OR-04145, OR-04227
P-30-157296		Resource Name - Hetebrink (Henry T) House; Other - zip 92834	Building	Historic	HP02 (Single family property); HP15 (Educational building)	1983 (G. Lemon, CSUF)	OR-04060, OR-04145, OR-04227
P-30-157297		OHP Property Number - 036660; Resource Name - Dr George Clark Home - Heritage House; Other - zip 92834; Other - PHI-ORA-004	Building	Historic	HP02 (Single family property)	1976 (Jorice Moag and JoAnn Woodard, Arboretum Society); 1976 (Clement W. Meighan, Historical Resources Commission); 1983 (G. Lemon, Office of Facility Planning, California State University)	OR-03822, OR-04060
P-30-177093		OHP Property Number - 143584; Resource Name - Lewis Lemke House; Other - zip 92870	Building	Historic	HP02 (Single family property)	2002 (Marie Antram, City of Placentia)	OR-04104
P-30-177117		Resource Name - Hope International University; Other - Pacific Christian College; Other - zip 92831	Building	Historic	HP03 (Multiple family property); HP06 (1-3 story commercial building); HP15 (Educational building)	2011 (Jeanette A. McKenna, McKenna et al)	OR-04145, OR-04227
P-30-177118		Resource Name - LDS Student Center; Other - zip 92831	Building	Historic	HP06 (1-3 story commercial building)	2011 (Jeanette A. McKenna, McKenna et al)	OR-04145, OR-04227
P-30-177119		Resource Name - Commercial Shopping Center; Other - zip 92831	Building	Historic	HP06 (1-3 story commercial building)	2011 (Jeanette A. McKenna, McKenna et al)	OR-04145, OR-04227
P-30-177446		Resource Name - Pollak Library at California State University, Fullerton; Other - CSUF Pollak Library	Building	Historic	HP15 (Educational building)	2012 (Kim Apel, CSUF)	OR-04284

Resource List

Primary No.	Trinomial	Other IDs	Type	Age	Attribute codes	Recorded by	Reports
P-30-162288		OHP Property Number - 090897; Resource Name - First Macadamia Tetraphylla Planted in California; Other - SPHI-ORA-015; Other - zip 92870	Other	Historic	HP30 (Trees/vegetation)	1982 (State Historical Resources Commission, Dept of Parks & Rec)	
P-30-177087		OHP Property Number - 143451; Resource Name - Charles Fuller Ranch; Other - zip 92870	Building	Historic	HP02 (Single family property)	2002 (Shannon Orr, City of Placentia)	OR-04104
P-30-177092		OHP Property Number - 143583; Resource Name - Nenno House; Other - zip 92870	Building	Historic	HP02 (Single family property)	2002 (Liliana Vasquez, City of Placentia)	OR-04104

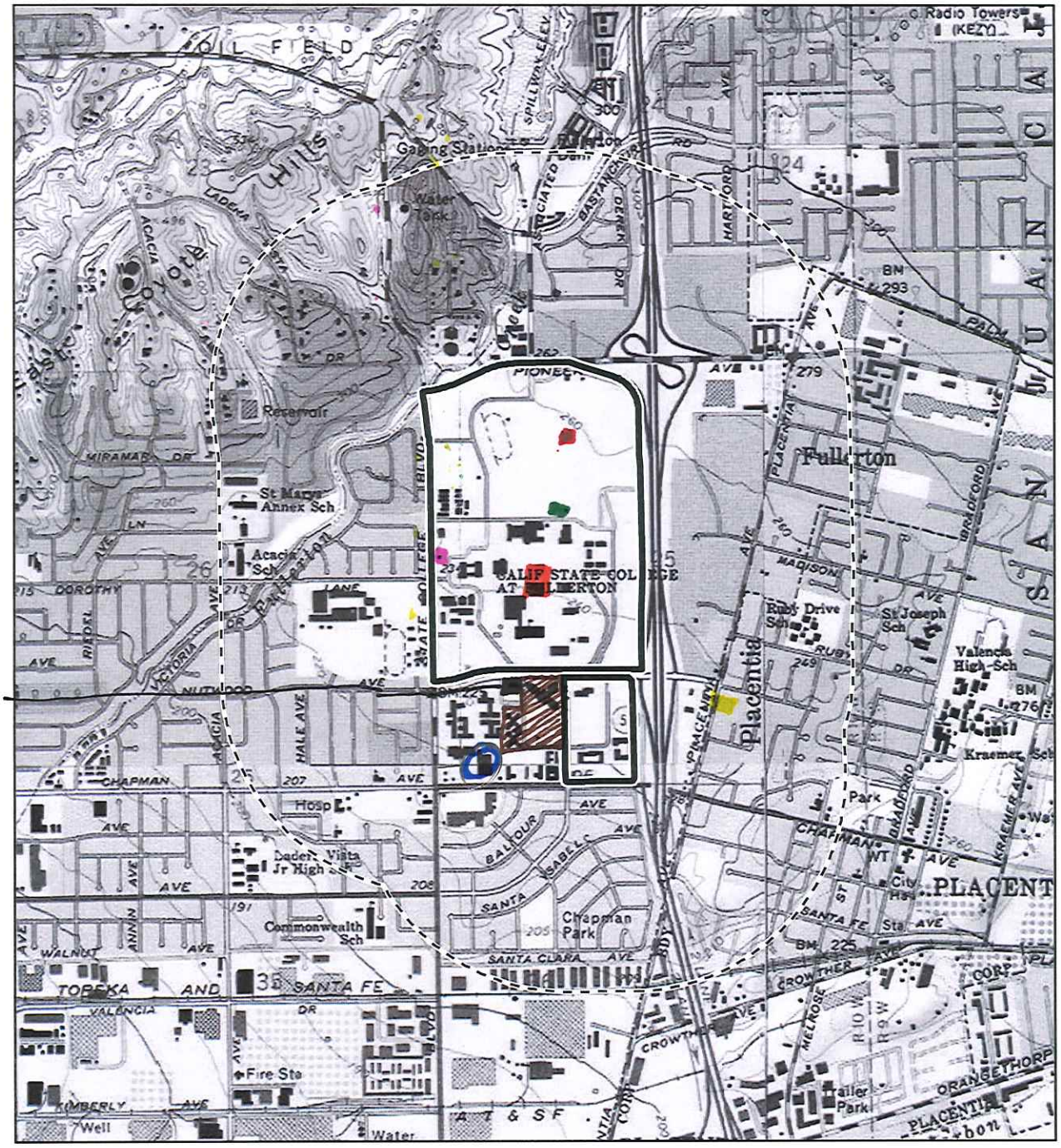
rincon

Record Search Resources Proximity Sheet

Project Name: CSU Fullerton Resources - Master EIR

Resource Number	Within Project Site	Adjacent to Project Site	Outside of Project Site
162288			X
177092			X
177087			X
177119			X
177117		X	
177118			X
177093			X
177446	X		
157296	X		
157295	X		
157297	X		

Resources - Anaheim/La Habra



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Half-Mile Buffer

Project Location

N

0 1,000 2,000 Feet

0 250 500 Meters

1:24,000

Records Search Map

CSUF - Resources

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Half-Mile Buffer

Project Location

N

0 1,000 2,000 Feet

0 250 500 Meters

1:24,000

Records Search Map

Report List

CSU Fullerton Parking

Report No.	Other IDs	Year	Author(s)	Title	Affiliation	Resources
OR-00678		1976	Tadlock, Lewis W.	Archaeological Element of an Environment Impact Report for a Portion of California State University Fullerton Campus.	Public Antiquities Salvage Team, CSUF	
OR-02256		1999	Demcak, Carol R.	Cultural Resources Assessments for Orange County Sanitation Districts	Archaeological Resource Management Corp.	30-000083, 30-000084, 30-000085, 30-000086, 30-000087, 30-000144, 30-000277, 30-000288, 30-000289, 30-000300, 30-000352, 30-000353, 30-000381, 30-001352
OR-02280		2000	Duke, Curt	Cultural Resource Assessment for At&t Fixed Wireless Services Facility Number Oc_420_a, County of Orange, Ca	LSA Associates, Inc.	
OR-02538		2002	Duke, Curt	Cultural Resource Assessment Cingular Wireless Facility No. Sm 195-01	LSA Associates, Inc.	
OR-02795		2002	Harper, Caprice D.	Cultural Resource Assessment Cingular Wireless Facility No. Sc 046-02 Orange County, California	LSA Associates, Inc.	
OR-02799		2002	Duke, Curt	Cultural Resource Assessment Cingular Wireless Facility No. Sc 046-01 Orange County, California	LSA Associates, Inc.	
OR-03393		2006	Wlodarski, Robert J.	Record Search and Field Survey for the Proposed Bechtel Corporation Wireless Telecommunications Site Lsancac420 (57 Freeway/yorba Linda) Located at 1535 Deerpark Drive, Fullerton, Orange County, California 92831	Cellular, Archaeological Resource, Evaluations	
OR-03733		1999	Duke, Curt	Cultural Resources Assessment for Pacific Bell Mobile Services Facility CM-423-01, County of Orange, California	LSA	
OR-03822		2006	Harper, Caprice	Historic Property Survey Report and Archaeological Survey Report for the State Route 57 Northbound Widening Project 0.3 km (02 mi) South of Orangethorpe Avenue to 0.2 km (0.1 mi) North of Lambert Road in the Cities of Placentia, Fullerton, and Brea, Orange County, CA.	Bonterra Counsulting	30-001010, 30-100012, 30-100013, 30-150063, 30-157297, 30-176590, 30-176663, 30-176705, 30-176706, 30-176707, 30-176749

Report List

CSU Fullerton Parking

Report No.	Other IDs	Year	Author(s)	Title	Affiliation	Resources
OR-04104		2002	Antram, Marie, Orr, Shannon, Vasquez, Liliana, L. de Graf, and Jertberg, Pat	Historic Resource Inventory for the City of Placentia: Update 2002	City of Placentia and Placentia Historical Committee	30-157208, 30-160084, 30-160085, 30-162291, 30-162555, 30-176705, 30-176707, 30-176749, 30-177066, 30-177080, 30-177081, 30-177082, 30-177083, 30-177084, 30-177085, 30-177086, 30-177087, 30-177088, 30-177089, 30-177090, 30-177091, 30-177092, 30-177093, 30-177094, 30-177095, 30-177096, 30-177097, 30-177098, 30-177099, 30-177100, 30-177101, 30-177102, 30-177103, 30-177104, 30-177105, 30-177106, 30-177107, 30-177108, 30-177109, 30-177110, 30-177111, 30-177112
OR-04145		2011	McKenna, Jeanette A.	A Cultural Resources Investigation for the College Town @ Cal State Fullerton Specific Plan Project Area in the City of Fullerton, Orange County, California	McKenna et al.	30-157295, 30-157296, 30-177117, 30-177118, 30-177119
OR-04284		2012	Mendoza, Theresa	Center for Oral and Public History (COPH), relocation and expansion of the COPH	Center for Oral and Public History (COPH)	30-177446

Report List

Report No.	Other IDs	Year	Author(s)	Title	Affiliation	Resources
OR-00416		1979	Riessen, Herbert P.	The Placentia Grasseaters a Burial Analysis and Report on Two Skeletons		
OR-00554		1977	Cottrell, Marie G.	Cultural Resource Survey for 13.7 Acres in the City of Placentia	Archaeological Research, Inc.	
OR-00985		1989	Brown, Joan C.	Cultural Resources Reconnaissance of the 375 Acre East Coyote Hills Unocal Project, Fullerton, California	RMW Paleo Associates, Inc.	30-001221
OR-02808		2002	Duke, Curt	Cultural Resource Assessment at & T Wireless Services Facility No. 13067a Orange County, California	LSA Associates, Inc.	
OR-03033		2004	Kyle, Carolyn E.	Cultural Resource Assessment for At&t Wireless Facility 950-013-305c 1600 North Acacia Avenue City of Fullerton Orange County, California	Kyle Consulting	
OR-03215	Cellular -	2005	Bonner, Wayne H.	Cultural Resources Records Search Results and Site Visit for Cingular Wireless Candidate Lsanca3039d (norht Placentia Avenue), 1930 North Placentia Avenue, Fillerton, Orange County, California	Michael Brandman Associates	
OR-03721		2007	Bonner, Wayne H.	Cultural Resources Records Search and Site Visit Results for T-Mobile Candidate LA23632C (Crowther Rental), Approximately 290 Feet West-Southwest of Goetz Place and West Crowther Avenue Intersection, Placentia Orange County, California	Michael Brandman Associates	
OR-03887		2013	Fulton, Phil	Cultural Resource Assessment Class I Inventory, Verizon Wireless Services CSUF Facility, City of Fullerton, Orange County, California	LSA Associates	30-001221
OR-04060		2009	Bonner, Wayne	Cultural Resources Records Search and Site Visit Results for TowerCo II, LLC CA2572 (Saito), 800 North State College Boulevard, Fullerton, Orange County, California	Michael Brandman Associates	30-157295, 30-157296, 30-157297

Report List

Report No.	Other IDs	Year	Author(s)	Title	Affiliation	Resources
OR-04079		1988	deGraaf, Larry, Jertberg, Pat, Schmidt, Marie, Octtavain, April, Torres, Elvia, Rospaw, Cecil, Aunis, Karen, Nebeker, Karen, Clark, John, Carlson, Robert, Deeble, Deborah, Nagle, Timothy, Snyder, Gretchen, Villareal, Gloria, Myers, William, Turner, Laura,	Placentia Historic Resources Survey	Marsh and Associates	30-160084, 30-177077, 30-177078
OR-04227		2012	McKenna, Jeanette	Addendum Report" A Cultural Resources Investigation for the College Town @ Cal State Fullerton Specific Plan Project Area in the City of Fullerton, Orange County, California	McKenna et al	30-157295, 30-157296, 30-177117, 30-177118, 30-177119
OR-04342		1990	Brown, Joan C.	Test Phase of a Portion of the East Coyote Hills Unocal Project, Fullerton, California	RMW Paleo Associates, Inc.	

Appendix B

Native American Outreach

NATIVE AMERICAN HERITAGE COMMISSION
Cultural and Environmental Department
1550 Harbor Blvd., Suite 100
West Sacramento, CA 95691
Phone: (916) 373-3710
Email: nahc@nahc.ca.gov
Website: http://www.nahc.ca.gov
Twitter: @CA_NAHC

July 5, 2019

Mark Strother
Rincon Consultants

VIA Email to: mstrother@rinconconsultants.com

RE: CSU Fullerton Cultural Resources Assessment Project # 18-0601, Orange County.

Dear Mr. Strother:

A record search of the Native American Heritage Commission (NAHC) Sacred Lands File (SLF) was completed for the information you have submitted for the above referenced project. The results were negative. However, the absence of specific site information in the SLF does not indicate the absence of cultural resources in any project area. Other sources of cultural resources should also be contacted for information regarding known and recorded sites.

Attached is a list of Native American tribes who may also have knowledge of cultural resources in the project area. This list should provide a starting place in locating areas of potential adverse impact within the proposed project area. I suggest you contact all of those indicated; if they cannot supply information, they might recommend others with specific knowledge. By contacting all those listed, your organization will be better able to respond to claims of failure to consult with the appropriate tribe. If a response has not been received within two weeks of notification, the Commission requests that you follow-up with a telephone call or email to ensure that the project information has been received.

If you receive notification of change of addresses and phone numbers from tribes, please notify the NAHC. With your assistance, we can assure that our lists contain current information. If you have any questions or need additional information, please contact me at my email address: Katy.sanchez@nahc.ca.gov.

Sincerely,

Katy Sanchez

KATY SANCHEZ
Associate Environmental Planner

Attachment

Native American Heritage Commission
Native American Contacts List
7/05/2019

Gabrieleno Band of Mission Indians - Kizh Nation
Andrew Salas, Chairperson
P.O. Box 393 Gabrielino
Covina ,CA 91723
admin@gabrielenoindians.org
(626) 926-4131

Gabrielino-Tongva Tribe
Charles Alvarez, Councilmember
23454 Vanowen St. Gabrielino
West Hills ,CA 91307
roadkingcharles@aol.com
(310) 403-6048

Gabrieleno/Tongva San Gabriel Band of Mission Indians
Anthony Morales, Chairperson
P.O. Box 693 Gabrielino Tongva
San Gabriel ,CA 91778
GTTribalcouncil@aol.com
(626) 483-3564 Cell
(626) 286-1262 Fax

Gabrielino /Tongva Nation
Sandonne Goad, Chairperson
106 1/2 Judge John Aiso St., #231 Gabrielino Tongva
Los Angeles ,CA 90012
sgoad@gabrielino-tongva.com
(951) 807-0479

Gabrielino Tongva Indians of California Tribal Council
Robert F. Dorame, Chairman
P.O. Box 490 Gabrielino Tongva
Bellflower ,CA 90707
gtongva@gmail.com
(562) 761-6417 Voice/Fax

Gabrielino-Tongva Tribe
Linda Candelaria, Chairperson
80839 Camino Santa Juliana Gabrielino
Indio ,CA 92203
lcandelaria1@gabrielinotribe.org

This list is current as of the date of this document and is based on the information available to the Commission on the date it was produced.

Distribution of this list does not relieve any person of statutory responsibility as defined in Section 7050.5 of the Health and Safety Code,Section 5097.94 of the Public Resources Code, or Section 5097.98 of the Public Resources Code.

This list is only applicable for contacting local Native Americans Tribes for the proposed: CSU Fullerton Cultural Resources Assessment Project #18-06014, Orange County.

Rincon Consultants, Inc.

250 East 1st Street Suite 1400
Los Angeles, California 90012

213 788 4842 OFFICE AND FAX

info@rinconconsultants.com
www.rinconconsultants.com

REPRESENTATIVE EXAMPLE – LETTER 1 of 6 SENT TO NAHC CONTACTS

June 24, 2019

Juaneño Band of Mission Indians – Acjachemen Nation
Matias Belardes, Chairperson
32161 Avenida Los Amigos
San Juan Capistrano, California 92675
Phone: (949) 444 - 4340
kaamalam@gmail.com

RE: Archaeological Resources Study for the California State Fullerton Master Plan Update in the City of Fullerton, Orange County, California

Dear Chairperson Belardes:

Rincon Consultants, Inc. (Rincon) was retained by California State University, Fullerton to complete an archaeological resources study in support of the Master Plan Update Project (project) located at North State College Boulevard in the City of Fullerton, California. This project is subject to the California Environmental Quality Act (CEQA) and consists of an update to the University's Master Plan.

As part of the process of identifying cultural resources for this project, Rincon contacted the Native American Heritage Commission (NAHC) on May 17, 2019 and requested a Sacred Lands File (SLF) search and a list of Native American tribal organizations and individuals who may have knowledge of sensitive cultural resources in or near the project site. Rincon has not yet received the results of the SLF search. In anticipation of the SLF results we are contacting groups and individuals known to Rincon to have ties to the region.

If you have knowledge of cultural resources that may exist within or near the project site, please do not hesitate to contact me at mstrother@rinconconsultants.com, or by telephone at (760) 918-9444 extension 2047. Thank you for your assistance.

Sincerely,

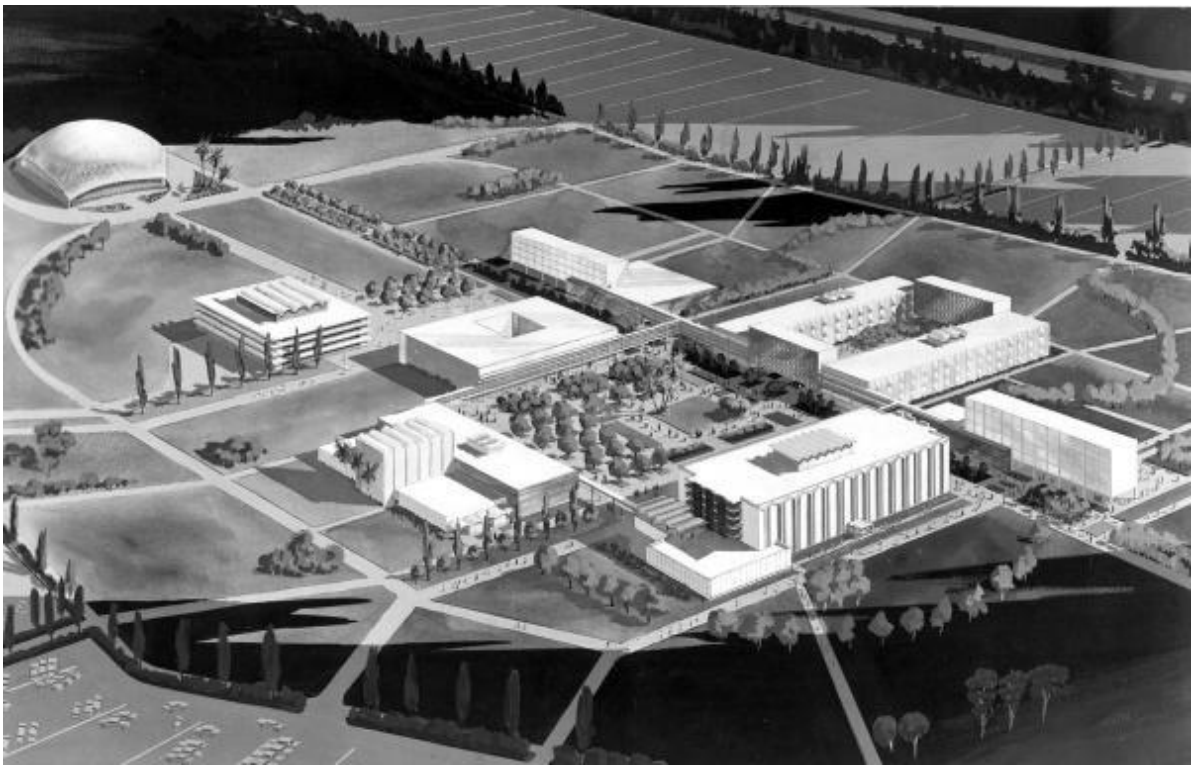
Rincon Consultants, Inc.

Mark Strother, MA
Associate Archaeologist

Enclosure: Project Location Map

Appendix F

Historical Resources Survey Report



California State University, Fullerton

Historic Resources Survey Report

prepared for

California State University, Fullerton
Capital Programs & Facilities Management
800 North State College Boulevard, T-300
Fullerton, California 92831
Contact: Emil Zordilla

prepared by

Rincon Consultants, Inc.
250 East 1st Street, Suite 1400
Los Angeles, California 90012

March 2020

RINCON CONSULTANTS, INC.
Environmental Scientists | Planners | Engineers
rinconconsultants.com

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Executive Summary

Rincon Consultants, Inc. (Rincon) was retained by California State University, Fullerton (CSUF) to complete a campus-wide historic resources survey in support of the CSUF Master Plan Update. The objective of this survey is to provide baseline information to CSUF on historical resources on the campus, in advance of master planning efforts.

This report presents the results of the CSUF campus-wide historic resource survey. The survey included built environment properties 45 years of age and older; temporary buildings and structures were omitted from the survey. Work efforts included archival research, literature review, and ArcGIS analysis and mapping, to identify properties falling within the survey's 45-year window, and an intensive-level field survey. In addition, a records search of the California Historical Resources Inventory System (CHRIS) was completed of the project site; a summary of these findings is provided in a separate archaeological resources report. All activities were conducted in accordance with the requirements of the California Environmental Quality Act (CEQA) and applicable guidelines.

As a result of this study, a total of 13 historical resources were identified as eligible for the National Register of Historic Places (NRHP) and/or California Register of Historical Resources (CRHR). Based on their eligibility for the NRHP and CRHR, these properties are considered historical resources for purposes of CEQA. Per CEQA, the loss of character-defining features and, as a consequence, historic integrity represents a significant adverse impact to historic resources.

In order to manage changes and upgrades to historical resources, Rincon offers the following best management practices for CSUF. These recommendations apply to projects included in the Master Plan update as well as any future facilities modernization projects that involve historical resources. (These are not mitigation measures; mitigation measures are included in the Master Plan EIR.)

1. **Design Modernization and Upgrade Projects to Comply with the *Secretary's Standards***
    a. To streamline project implementation and environmental review

2. **Commission CSUF Design Guidelines for Historic Resources**
    a. To proactively, efficiently plan for modernization projects that avoid impacts to historical resources

3. **Utilize California Historical Building Code (CHBC) for eligible historic resources properties**
    a. In conjunction with the Department of the State Architect, CSUF can utilize the CHBC for qualifying buildings on a case-by-case basis to plan projects to historic properties that allow for upgrades while also protecting historic integrity

4. **Focus on Noncontributing Lots and Properties for In-fill and Development Projects**
    a. To avoid direct and indirect impacts to historical resources

5. **Design and Install Interpretive Panels and Exhibit on CSUF History**
    a. To convey the rich social and architectural history of CSUF to staff, students, and the community

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1 Introduction

1.1 Project Objective and Background

Rincon was retained by CSUF to complete a campus-wide historic resources evaluation in support of the CSUF Master Plan Update. The historic resources evaluation considered built environment properties 45 years of age or older; the evaluation did not include temporary buildings or structures. Work efforts included archival research, literature review, ArcGIS analysis and mapping, in order to characterize and present information on the dates of construction for all properties on campus, and an intensive-level field survey of the CSUF campus. The scope of work for this study did not include an archaeological survey/analysis. In addition, a records search of the California Historical Resources Inventory System (CHRIS) was completed of the project site; a summary of these findings is provided in a separate archaeological resources report. All activities were conducted in accordance with the requirements of the California Environmental Quality Act (CEQA) and applicable local regulations and guidelines.

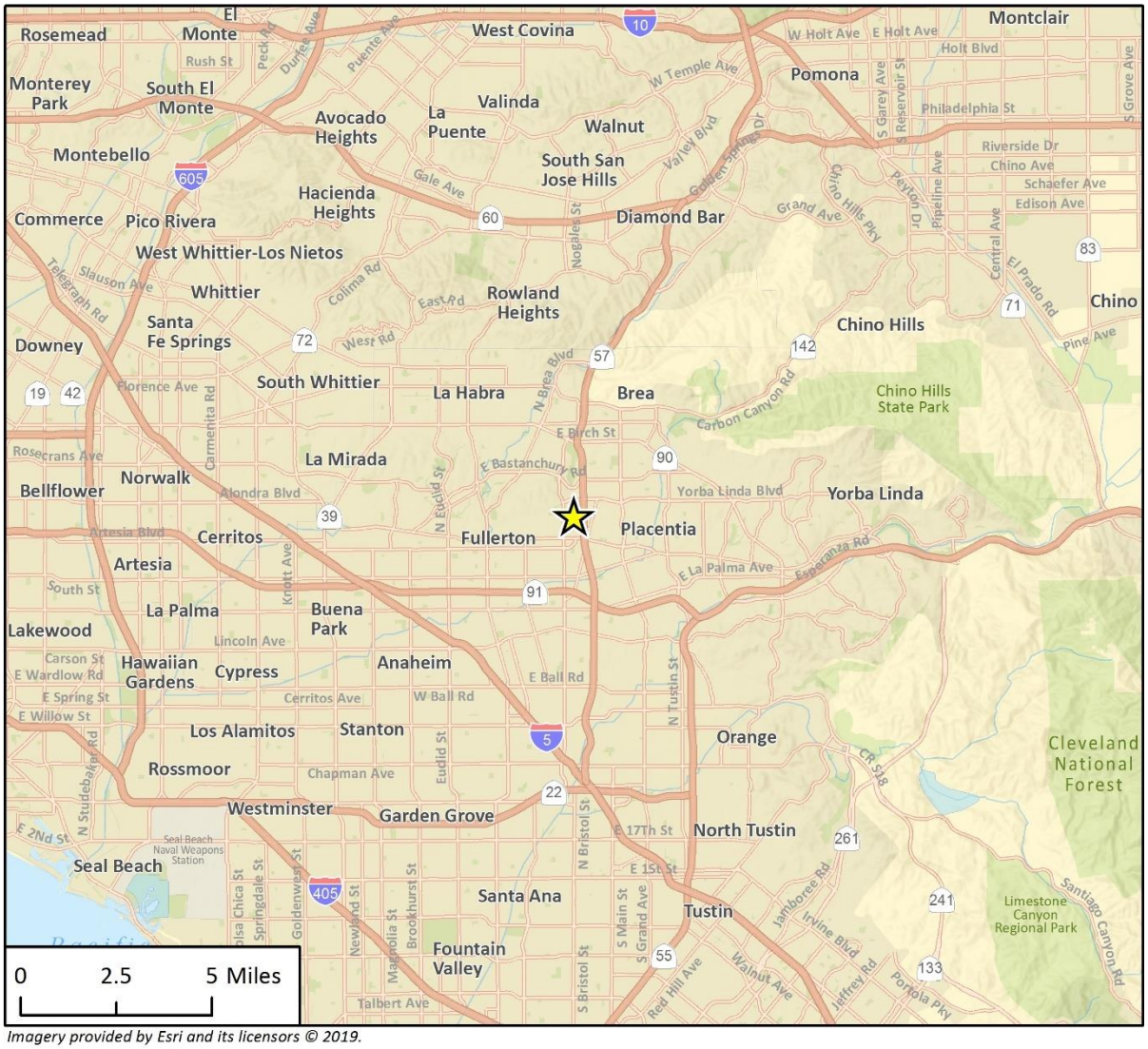
This Historic Resources Survey Report, along with accompanying Arc-GIS shapefiles mapping out all historical resources, will provide an accessible method for CSUF to proactively identify and manage both historically significant and non-significant assets in support of future master planning and facilities upgrades efforts. This survey report does not include an impacts analysis or mitigation measures—recommendations made in this study represent best preservation management practices for CSUF's many significant historic resources. The corresponding impacts analysis is included in the EIR completed as part of the Master Plan project.

Established during the late 1950s as Orange County State College, CSUF spans over 250 acres in eastern Fullerton; the college is located at 800 North State College Boulevard (see Figure 1 and Figure 2). The campus includes dozens of buildings, structures, objects, and landscaping elements that reflect decades of development history, from the citrus era in Fullerton to the postwar construction boom, in particular in institutional facilities. In addition to several late nineteenth and early twentieth century properties, which survive from the site's former use as an expansive citrus farm, the campus consists of a central, historic campus core, constructed from the early 1960s through the early 1970s, as well as a number of more recent buildings and facilities.

Much of the historic campus core was constructed in the late 1960s in a New Formalist/Late Modern architectural style. The campus includes the work of recognized master architects and landscape architects, including Thornton Abell; Herbert James Powell, Henry Morgridge, Albert A. Richards & Redmond R. Coghlan; and Ralph Cornell, Samuel Bridgers and Howard Troller. Although several buildings located on the campus have been previously identified as historically significant (including the Dr. George Clark House and Office, which is listed in the National Register of Historic Places), the campus as a whole has never been surveyed.

This Historic Resources Survey Report supports CSUF efforts to update the CSUF Campus Master Plan. The Campus Master Plan considers the existing and future needs of student housing, dining and amenities, informal and active learning spaces, research and innovation spaces, as well as the Arboretum. The Campus Master Plan also addresses potential impacts to the surrounding neighborhoods to enhance cohesion between CSUF and adjacent communities.

Figure 1 Regional and Vicinity Maps



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Project Location

N

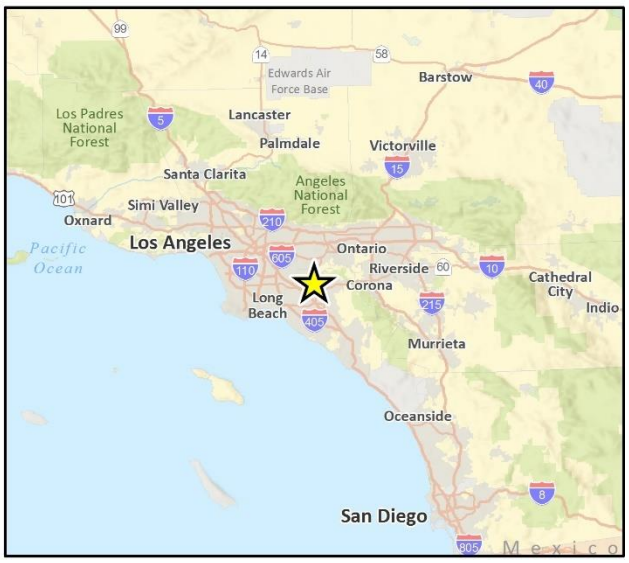

Fig 1 Regional Location

Figure 2 Project Location

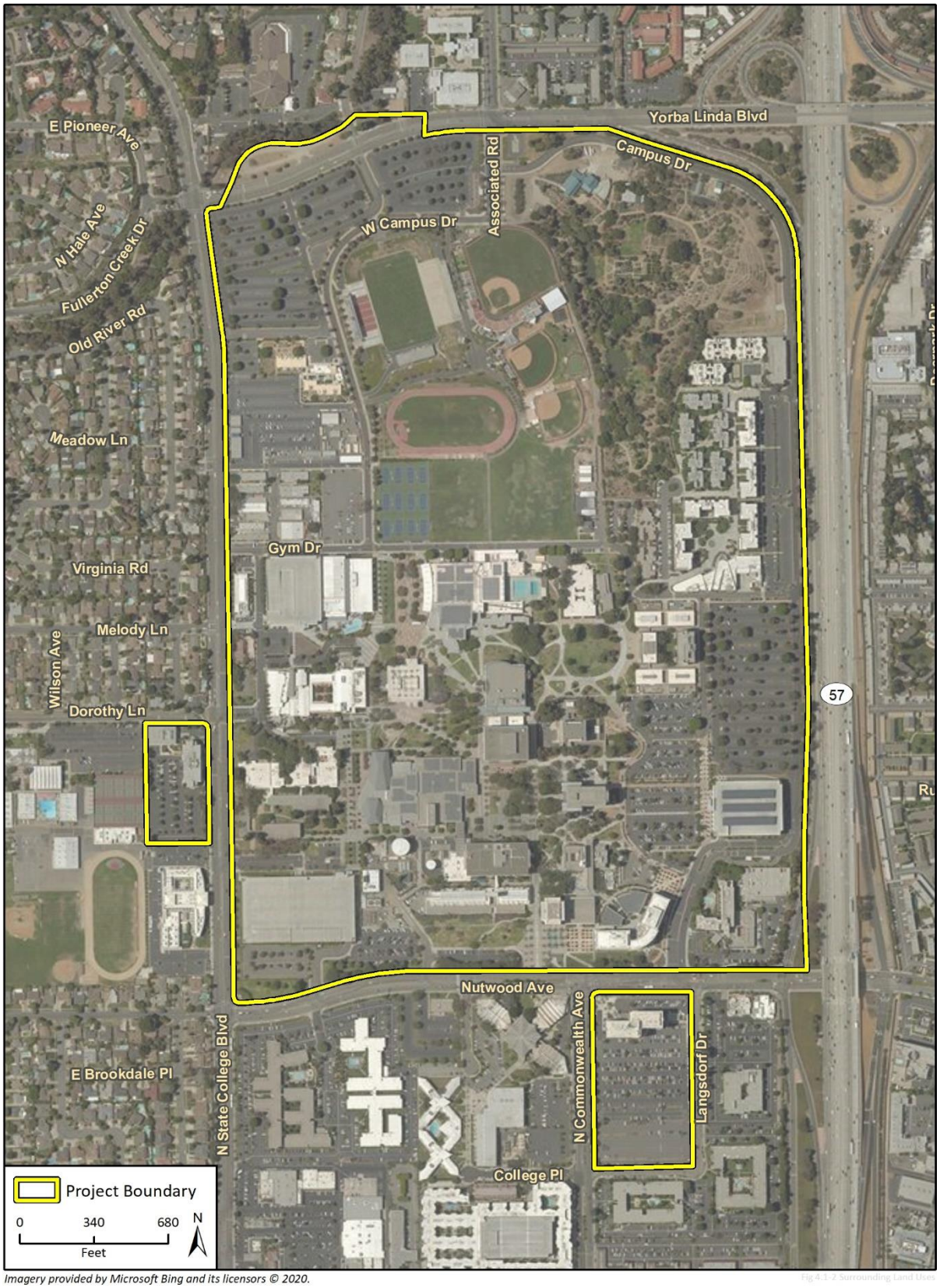

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Fig 4.1-2 Surrounding Land Uses

1.2 Regulatory Setting

This section describes the applicable significance criteria considered in the preparation of this study.

This historic resources survey did not include local level criteria. Per California State Government Code Section 53094, the properties of California school districts, including the CSU system, are statutorily exempt from most provisions of local ordinances, including landmark designation. California State Government Code, Section 53094 permits "the governing board of a school district, by vote of two-thirds of its members . . . [to] render a city or county zoning ordinance inapplicable to a proposed use of property by such school district." The legislative history of Section 53094 indicates that "the Legislature deliberately accorded different treatment to school districts than to other local agencies because it was well aware that school construction was subject to almost complete control by the state… . The Legislature accordingly provided in section 53094 that school districts, as opposed to other local agencies, should retain the right to exempt themselves from local zoning ordinances (Santa Clara, supra, 22 Cal.App.3d at p. 158 fn. 3.)."[1]

Federal

National Register of Historic Places

The National Register of Historic Places (NRHP) was established by the National Historic Preservation Act of 1966 as "an authoritative guide to be used by Federal, State, and local governments, private groups and citizens to identify the Nation's cultural resources and to indicate what properties should be considered for protection from destruction or impairment" (CFR 36 CFR 60.2). The NRHP recognizes properties that are significant at the national, state, and local levels. To be eligible for listing in the NRHP, a resource must be significant in American history, architecture, archaeology, engineering, or culture. A property is eligible for the NRHP if it:

Criterion A. Is associated with events that have made a significant contribution to the broad patterns of our history; or

Criterion B. Is associated with the lives of persons significant in our past; or

Criterion C. Embodies the distinctive characteristics of a type, period, or method of installation, or represents the work of a master, possesses high artistic values, or represents a significant and distinguishable entity whose components may lack individual distinction; or

Criterion D. Has yielded, or may be likely to yield, information important in prehistory or history.

In addition to meeting these criteria, a property must retain historic integrity, which is defined in National Register Bulletin 15 as the "ability of a property to convey its significance" (National Park Service 1990). In order to assess integrity, the National Park Service recognizes seven aspects or qualities that, considered together, define historic integrity. To retain integrity, a property must possess several, if not all, of these seven qualities, which are defined in the following manner in National Register Bulletin 15:

1. **Location.** The place where the historic property was constructed or the place where the historic event occurred.
2. **Design.** The combination of elements that create the form, plan, space, structure, and style of a property.

3. **Setting.** The physical environment of a historic property.
4. **Materials** are the physical elements that were combined or deposited during a particular period of time and in a particular pattern or configuration to form a historic property.
5. **Workmanship.** The physical evidence of the crafts of a particular culture or people during any given period in history or prehistory.
6. **Feeling.** A property's expression of the aesthetic or historic sense of a particular period of time.
7. **Association.** The direct link between an important historic event or person and a historic property.

Some aspects of integrity may be accorded more weight than others, depending on the type of resource being evaluated and the applicable eligibility criteria. Integrity can be assessed only after it has been concluded that a resource is significant.

Secretary of the Interior's Standards for Rehabilitation

In accordance with the National Park Service and CEQA Guidelines, projects that comply with the *Secretary's Standards for the Treatment of Historic Properties* and *Secretary's Standards for Rehabilitation* (*Secretary's Standards*) are projects that retain the historic integrity of the resource. According to CEQA Guidelines, a project that complies with the *Secretary's Standards* is generally considered to be a project that will not cause a significant adverse impact to a historical resource.

The goal of the *Secretary's Standards* is to outline treatment approaches that allow for the retention of and/or sensitive changes to the distinctive materials and features that lend a historical resource its significance. The *Secretary's Standards* and Guidelines offer general recommendations for preserving, maintaining, repairing, and replacing historical materials and features, as well as designing new additions or making alterations. These standards also provide guidance on new construction adjacent to historic districts and properties, in order to ensure that there are no indirect adverse impacts to historic properties.

Rehabilitation is the most flexible treatment approach of the *Secretary's Standards*. The ten *Secretary's Standards for Rehabilitation* are:

1. A property shall be used for its historic purpose or be placed in a new use that requires minimal change to the defining characteristics of the building and its site and environment.
2. The historic character of a property shall be retained and preserved. The removal of historic materials or alteration of features and spaces that characterize a property shall be avoided.
3. Each property shall be recognized as a physical record of its time, place, and use. Changes that create a false sense of historical development, such as adding conjectural features or architectural elements from other buildings, shall not be undertaken.
4. Most properties change over time; those changes that have acquired historic significance in their own right shall be retained and preserved.
5. Distinctive features, finishes, and construction techniques or examples of craftsmanship that characterize a property shall be preserved.
6. Deteriorated historic features shall be repaired rather than replaced. Where the severity of deterioration requires replacement of a distinctive feature, the new feature shall match the old in design, color, texture, and other visual qualities and, where possible, materials.

Replacement of missing features shall be substantiated by documentary, physical, or pictorial evidence.

7. Chemical or physical treatments, such as sandblasting, that cause damage to historic materials shall not be used. The surface cleaning of structures, if appropriate, shall be undertaken using the gentlest means possible.
8. Significant archeological resources affected by a project shall be protected and preserved. If such resources must be disturbed, mitigation measures shall be undertaken.
9. New additions, exterior alterations, or related new construction shall not destroy historic materials that characterize the property. The new work shall be differentiated from the old and shall be compatible with the massing, size, scale, and architectural features to protect the historic integrity of the property and its environment.
10. New additions and adjacent or related new construction shall be undertaken in such a manner that if removed in the future, the essential form and integrity of the historic property and its environment would be unimpaired.

The *Secretary's Standards and Guidelines* offer general recommendations for preserving, maintaining, repairing, and replacing historical materials and features, as well as designing new additions or making alterations.[2] The *Secretary's Standards for Rehabilitation* also provide guidance on new construction adjacent to historic districts and properties, in order to ensure that there are no adverse indirect impacts to integrity as a result of a change in setting. Applying the *Secretary's Standards* to new construction adjacent to historic resources helps ensure avoidance of indirect impacts and retention of the setting and feeling of the historic resource and its surrounding environment.

Secretary's Standards compliance begins with the identification and documentation of the "character-defining," or historically significant, features of the historical resource. According to Preservation Brief 17, *Architectural Character: Identifying the Visual Aspects of Historic Buildings as an Aid to Preserving Their Character*, there is a three-step process to identifying character-defining features (Nelson, 1982). Step 1 involves assessing the physical aspects of the building exterior as a whole, including its setting, shape and massing, orientation, roof and roof features, projections, and openings. Step 2 looks at the building more closely—at materials, trim, secondary features, and craftsmanship. Step 3 encompasses the interior, including individual spaces, relations or sequences of spaces (floor plan), surface finishes and materials, exposed structure, and interior features and details. Alterations and replacement of character-defining features over time can impair a historic property's integrity and result in a loss of historic status. Therefore, to ensure that a historic property remains eligible after implementation of projects, character-defining features should be identified and preserved.

State

The policies of the NHPA are implemented at the state level by the California Office of Historic Preservation, a division of the California Department of Parks and Recreation. The Office of Historic Preservation is also tasked with carrying out the duties described in the Public Resources Code and maintaining the California Historic Resources Inventory and CRHR. The state-level regulatory framework also includes CEQA, which requires the identification and mitigation of substantial adverse impacts that may affect the significance of eligible historical and archeological resources.

California Register of Historical Resources

Created in 1992 and implemented in 1998, the CRHR is "an authoritative guide in California to be used by state and local agencies, private groups, and citizens to identify the state's historical resources and to indicate what properties are to be protected, to the extent prudent and feasible, from substantial adverse change."[1] Certain properties, including those listed in or formally determined eligible for listing on the NRHP and California Historical Landmarks numbered 770 and higher, are automatically included on the CRHR.

According to PRC Section 5024.1(c), a resource, either an individual property or a contributor to a historic district, may be listed in the CRHR if the State Historical Resources Commission determines that it meets one or more of the following criteria, which are modeled on NRHP criteria:

Criterion 1: It is associated with events that have made a significant contribution to the broad patterns of California's history and cultural heritage

Criterion 2: It is associated with the lives of persons important in our past

Criterion 3: It embodies the distinctive characteristics of a type, period, region, or method of construction, or represents the work of an important creative individual, or possesses high artistic values

Criterion 4: Has yielded, or may be likely to yield, information important in prehistory or history

Properties that do not retain sufficient integrity for NRHP listing can still qualify for listing in the CRHR. Historical resources eligible for listing in the California Register must meet one of the criteria of significance described above and retain enough of their historic character or appearance to be recognizable as historical resources and to convey the reasons for their significance.

California Environmental Quality Act (CEQA)

CEQA requires a lead agency to analyze whether historic and/or archaeological resources may be adversely impacted by a proposed project. Under CEQA, a "project that may cause a substantial adverse change in the significance of a historic resource is a project that may have a significant effect on the environment" (PRC Section 21084.1).

Answering this question is a two-part process: first, the determination must be made as to whether the proposed project involves cultural resources. Second, if cultural resources are present, the proposed project must be analyzed for a potential "substantial adverse change in the significance" of the resource.

According to CEQA Guidelines Section 15064.5, historic resources are:

1. A resource listed in, or formally determined eligible for listing in, the California Register of Historical Resources (PRC 5024.1, Title 14 CCR, Section 4850 et seq);
2. A resource included in a local register of historical resources, as defined in Section 5020.1(k) of the PRC or identified as significance in a historic resources survey meeting the requirements of Section 5024.1(g) of the PRC;
3. Any building, structure, object, site, or district that the lead agency determines eligible for national, state, or local landmark listing; generally, a resource shall be considered by the

[1] Public Resources Code, Sections 21083.2 and 21084.1.

lead agency to be historically significant (and therefore a historic resource under CEQA) if the resource meets the criteria for listing on the California Register (as defined in PRC Section 5024.1, Title 14 CCR, Section 4852).

Resources nominated to the CRHR must retain enough of their historic character or appearance to convey the reasons for their significance. Resources whose historic integrity (as defined in previous section) does not meet NRHP criteria may still be eligible for listing in the CRHR.

According to CEQA, the fact that a resource is not listed in or determined eligible for listing in the California Register or is not included in a local register or survey shall not preclude the lead agency from determining that the resource may be an historical resource (PRC Section 5024.1). Pursuant to CEQA, a project with an effect that may cause a substantial adverse change in the significance of a historical resource may have a significant effect on the environment (CEQA Guidelines, Section 15064.5(b).

CEQA Guidelines specify that “substantial adverse change in the significance of an historical resource means physical demolition, destruction, relocation, or alteration of the resource or its immediate surroundings such that the significance of an historical resource would be materially impaired” (CEQA Guidelines, Section 15064.5).

Material impairment occurs when a project alters in an adverse manner or demolishes “those physical characteristics of an historical resource that convey its historical significance and that justify its inclusion” or eligibility for inclusion in the NRHR, CRHR, or local register. In addition, pursuant to CEQA Guidelines Section 15126.2, the “direct and indirect significant effects of the project on the environment shall be clearly identified and described, giving due consideration to both the short-term and long-term effects.”

In terms of indirect impacts, pursuant to CEQA Guidelines, Section 15378, study of a project under CEQA requires consideration of “the whole of an action, which has the potential for resulting in either a direct physical change in the environment, or a reasonably foreseeable indirect physical change in the environment." CEQA Guidelines, Section15064d further define direct and indirect impacts:

1. A direct physical change in the environment is a physical change in the environment which is caused by and immediately related to the project.
2. An indirect physical change in the environment is a physical change in the environment which is not immediately related to the project, but which is caused indirectly by the project. If a direct physical change in the environment in turn causes another change in the environment, then the other change is an indirect physical change in the environment.

An indirect physical change is to be considered only if that change is a reasonably foreseeable impact that may be caused by the project.

1.3 Project Methodology

Literature Review and Research

This historic resources survey was completed in order to provide baseline information to CSUF on qualifying historical resources on campus, in advance of master planning efforts. The survey was completed in accordance with recognized professional standards, following the Secretary of the Interior's Standards for Preservation Planning, Identification, Evaluation and Registration; California Office of Historic Preservation; and National Park Service professional standards and guidelines. Applicable national, state, and local level criteria were considered.

Rincon conducted literature review and background research for the proposed project from July through September 2019. Several primary and secondary sources were consulted over the course of the project including:

- Campus planning reports including the CSUF Master Plan Report (2003) and the CSUF Facilities Report
- Architectural and site development building plans
- Historic aerial photographs and obtained from Environmental Data Resources (EDR)
- Historical photographs and maps
- Historical newspaper articles from the *Los Angeles Times,* the *Orange County Register,* the *Santa Ana Register,* and the *Daily Titan* among others
- American Architects Directory and Pacific Coast Architecture Database

A variety of additional secondary source materials were also consulted including written histories of the area. Archival research was completed at the Fullerton Public Library and CSUF Pollak Library, to review reference materials on local history and to prepare the historic setting section of this report. Fullerton Heritage was consulted in order to gather applicable materials on New Formalism in Fullerton as well as the history of the CSUF campus.

CHRIS Records Search

This section describes the cultural resources records and studies on file with the California Historical Resources Information System (CHRIS) at the South Central Coastal Information Center located at CSUF. On June 18, 2019, Rincon performed a CHRIS search to identify previously identified cultural resources that have been recorded on the project site, as well as previously conducted cultural resources studies that have included a portion of the project site and 0.5-mile radius surrounding it (records search area).

The CHRIS search additionally included a review of the NRHP and the CRHR, as well as available historic maps and aerial photographs. Records search results are described in more detail in the Phase I Cultural Resources Report completed for the project (Rincon 2019).

The SCCIC records search identified 24 previous studies within a 0.5-mile search radius of the project site. Of these, six included the project site. The SCCIC records search identified 11 previously recorded prehistoric or historic resources situated within a 0.5-mile radius of the project site. Of these resources, four are within the project site (as described below). Review of the Los Angeles County Historical Resources Inventory (HRI) identified three of these four resources as previously designated and listed.

All of these resources are also described and mapped in Section 5 of this report.

Located in the northern portion of the main CSUF campus, the Henry T. Hetebrink House (Titan House; P-30-157296) was previously found individually eligible for the NRHP (California Historic Resources Status Code 3S). Located in the western portion of campus, near N. State College Blvd., the Mahr House, known as the George G. Golleher Alumni House (P-30-15795), was previously found individually eligible for local listing (5S2). Located in the northern portion of campus on the grounds of the Arboretum, the Dr. George C. Clark House and Office (P-30-157297), also called the Heritage House, is individually listed on the NRHP (1S).

Field Survey

On August 14 and September 10, 2019, Rincon Senior Architectural Historian Debi Howell-Ardila, MHP, and Architectural Historian Alexandra Madsen, MA, conducted an intensive-level survey of CSUF. Ms. Howell-Ardila and Ms. Madsen meet the *Secretary of the Interior's Professional Qualification Standards* in the fields of Architectural History and History. The field survey included all permanent buildings, structures, objects, landscaping/hardscaping features that are 45 years of age or older (constructed through the year 1975). Temporary buildings and structures were not included in the survey (Figure 4).

The existing conditions and character-defining features of resources were documented in field notes and digital photography. One campus resource, the Arboretum complex, was designed and constructed through the 1970s, with the final components completed in 1979. Because the Arboretum includes components 45 years of age and older, it was included in the survey.

2 Campus Overview

CSUF is an over 250-acre campus in eastern Fullerton, Orange County. Although campus buildings represent a wide range of dates of construction, the original campus core was constructed in a relatively short period of time, from the early 1960s through the mid-1970s. This section presents a brief overview of the campus as a whole; the historic context and setting for the campus is presented in Section 3.

Originally known as Orange County State College, the university was founded in 1957 on a site still home to a number of citrus farms and agricultural fields. After the college was established, construction of buildings, classrooms, and facilities began in the southern portion of the campus. As enrollment and demand grew, the university facilities expanded accordingly, primarily to the north, east, and west, in stages over time.

The campus core was designed and constructed primarily through four major building campaigns and master planning efforts, in 1960, 1962, 1967, and 1974. Although the campus continued to expand through the years, including a gradual northward expansion as former citrus groves gave way to buildings, the focal point of the campus remained (and remains) the 1960s-1970s campus core. This development pattern reflects the rapid postwar expansion and construction boom in Fullerton and Orange County in general. In addition, with the heart of the campus designed and constructed within a short period of time, during the heyday of New Formalism, Brutalism, and Late Modernism, in particular in institutional design, the campus core exhibits cohesive unified architectural character and style.

Components of the campus core include the site plan overall, associated buildings and structures, landscaping, and spatial relationships characterizing them, as well as unifying circulation corridors and outdoor spaces. Additional significant hardscaping and landscaping is evident in the east campus, designated the lawn, which is located between the Engineering and Computer Sciences Building Complex and the Student Health & Counseling Center. A third landscaped area of note is situated to the west of the central quad between the Titan Gymnasium and Book Store/Titan Shop and is characterized by a linear swath of lawn and plaza with intermittent mature tree plantings.

As CSUF grew, numerous permanent buildings and support structures, as well as temporary buildings/structures were added. As of 2019, the campus consists of approximately 118 buildings and structures, both permanent and temporary. Among those, approximately 48 were constructed prior to 1975; another 70 were constructed after 1975. Temporary buildings and structures account for 21 of the total, another 97 are permanent buildings and structures. This evaluation focused on permanent buildings, structures and features aged 45 years and older as of 2019.

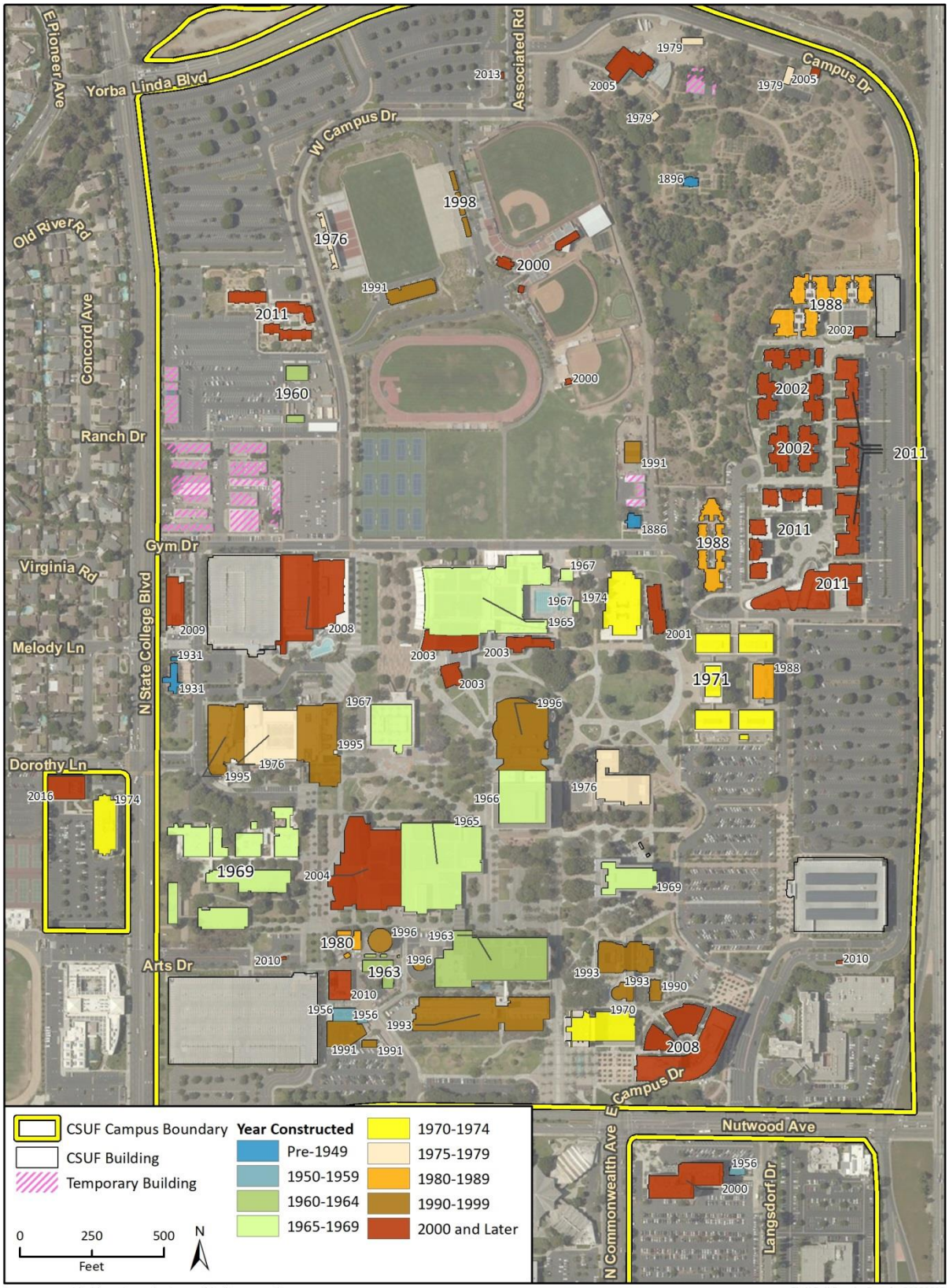
Table 1 below provides an overview of the principal permanent buildings on the campus that are 45 years of age or older, including the building names (historic and current), year constructed, and any associated builders or architects.

A visual overview of the campus and its construction chronology is provided in the following figures. Figure 3 provides a construction chronology of the campus and Figure 4 identifies all facilities included in this evaluation—namely, all permanent facilities and campus features 45 years of age or older as of 2019 (with construction dates up to 1975).

Table 1 Dates of Construction and Architects, CSUF Facilities Constructed through 1975

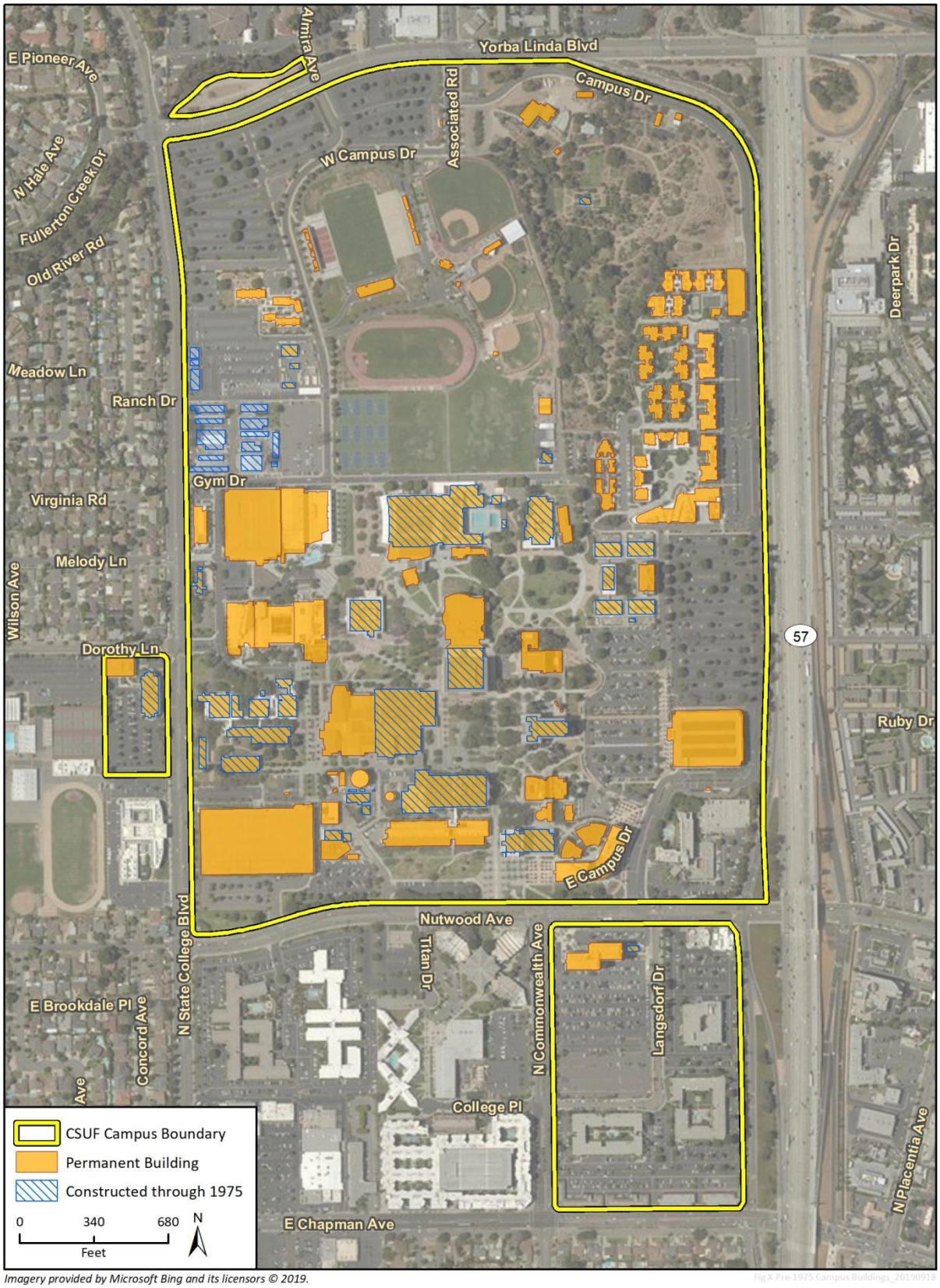
Current Building Name	Historic Building Name	Year	Architect/Builder
Titan House	Henry T. Hetebrink House	1886	Henry T. Hetebrink (B)
Heritage House	Dr. George C. Clark House and Office	1896	A.D. Porter and H.A. McWilliams (B)
George G. Golleher Alumni House	Mahr House	1931	Clinton F. Abbott (B) of Pacific Ready-Cut Homes Inc.
McCarthy Hall	Letters and Science Building	1963	Kemp Brothers (B) George Thompson (B)
Clayes Performing Arts Center	Music-Speech-Drama Building	1965	R. J. Daum Construction Company (B)
Titan Gymnasium/ Kinesiology & Health Science Building (3 buildings)	Physical Education Gymnasium Building	1965-1967	J. B. Allen & Company (B)
Pollak Library	Library	1966	Risley, Gould &Van Heuklyn (A) J. B. Allen & Company (B)
Book Store/Titan Shops	Cafeteria-Commons Building	1967	R. J. Daum Construction Company (B)
Humanities and Social Sciences Building	Same	1969	Thornton M. Abell (A) James I. Barnes Construction Co. (B)
Visual Arts Building Complex (6 buildings)	Same	1969	Thornton M. Abell (A)
Langsdorf Hall	Administration Building	1970	William E. Blurock & Partners (A) Balch, Hutchason & Perkins (A) James I. Barnes (B)
Engineering and Computer Science Building Complex (5 buildings)	Engineering Building	1971	Tutor-Myers Co. (B)
Student Health & Counseling Center	Health Center	1974	Mallcraft Inc. (B)
Titan Hall	Western State University College of Law	1974	George T. Nowak and Associates (A)
Arboretum	Same	1972-1979	Bridgers, Troller, and Hazlett (LA)

Figure 3 Campus Dates of Construction



Imagery provided by Microsoft Bing and its licensors © 2019.

Figure 4 Permanent Buildings of 45+ Years of Age



Imagery provided by Microsoft Bing and its licensors © 2019.

Fig X Pre-1975 Campus Buildings_20190918

3 Historic Context and Setting

This section provides the historic setting and context information for CSUF, divided chronologically and according to significant themes. The purpose of the historic context section is to provide a context-based framework for historic resource evaluations of the CSUF campus. The focus is on the eras and themes represented in the extant built environment of CSUF—namely, pre-CSUF, during Fullerton's citrus age, and the postwar boom and institutional expansion of Fullerton and Orange County, given the campus's 1957 establishment and subsequent expansion in the 1960s and 1970s (and beyond). This section also considers the larger themes that affected the region, such as the institutional development of the California State University (CSU) system, and the rise of New Formalist and Brutalist-style architecture in the 1960s and 1970s. Finally, it considers several key events that shaped the history and culture of CSUF.

3.1 Fullerton's Founding Years and the Citrus Age

Fullerton is located in the northern region of Orange County in Southern California. The land that currently encompasses Fullerton was part of the Spanish Mission San Gabriel Arcángel in the 18th century. With the liberation of Mexico from Spain in 1821 and the dissolution of the missions in 1833, Mexico established agency over the newly secularized land in Alta California. One way in which the new country rewarded loyalty and began to populate these northern stretches was with land grants. In 1837, the Mexican government bestowed one such grant of 35,970 acres of land on soldier Juan Pacífico Ontiveros. This area encompasses much of present-day Anaheim, Placentia, and Fullerton. Ontiveros settled in an adobe at the site, called the Rancho San Juan Cajon de Santa Ana, where he worked as a rancher. Like many other land grants after the cession of California to the United States in 1848, the U.S. honored Ontiveros' rancho grant and he continued to reside on the land until the 1850s. By the mid-19th century, Ontiveros sold much of the land, which was parceled out to new Anglo settlers moving westward.[3] Numerous settlers purchased land in the area, although most development was scattered until the 1880s.

Prior to the establishment of Fullerton proper, a number of families made the trek to the area to establish farms. The town only started to emerge, however, following the arrival of brothers George and Edward Amerige, grain merchants from Boston. In 1886, the Amerige brothers visited the region for a quail hunting excursion when they learned that the Santa Fe Railway was planning its expansion into the area. The enterprising pair purchased over 400 acres of land with the intent of establishing a town near the railroad. The brothers laid stake to the town but recognized that the availability of transportation lines would determine the town's success or failure.

In 1887, they negotiated with George H. Fuller, president of the Pacific Land and Improvement Company, to include the townsite in the railway's survey in exchange for free right-of-way and half interest in the land. The town of Fullerton was officially founded on July 5, 1887, when Edward Amerige plotted the town in the middle of a mustard field, naming the new town after George H. Fuller.[4] The town's honoring George H. Fuller was no surprise, as he ensured the railroad was routed through the fledgling town.

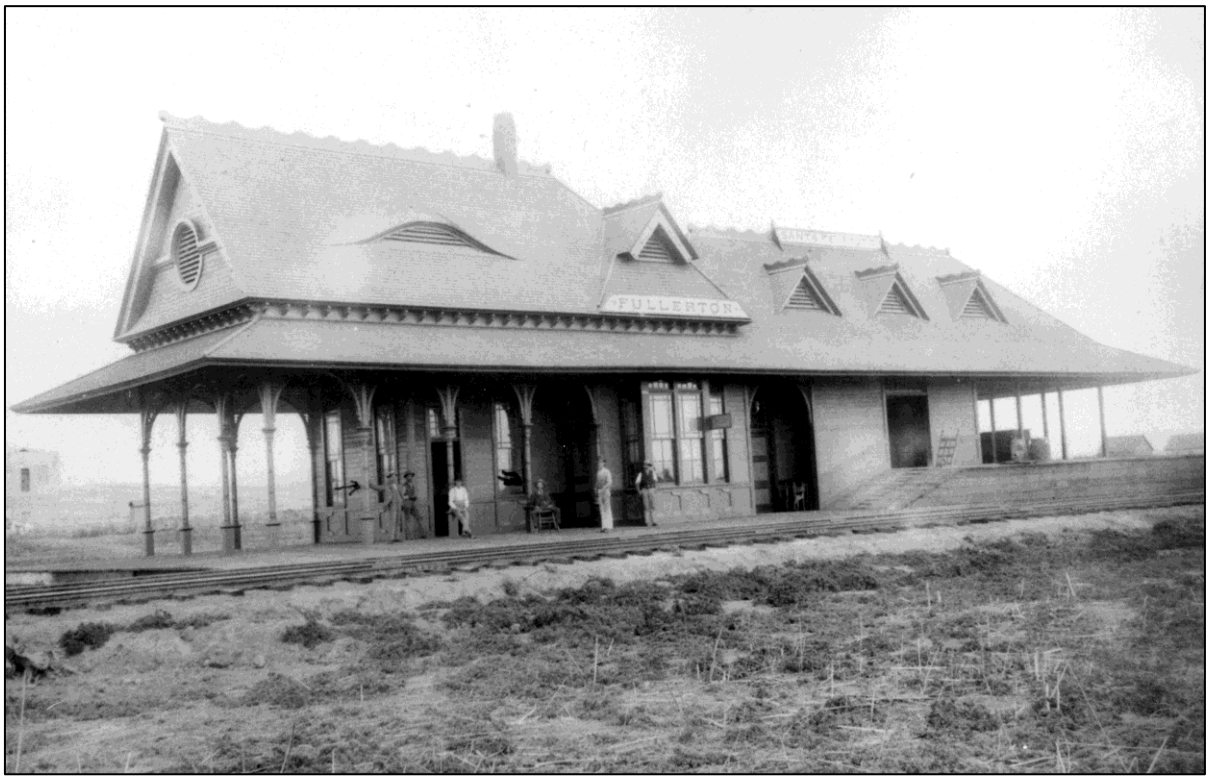
Within a few short months, the town site was platted, the land cleared, streets graded, and buildings erected in the new town. The town site's layout exhibits a grid plan with subdivision of relatively standard proportions. Spadra Road served as the town's main thoroughfare, and

businesses along the strip formed the nucleus of the nascent site. A hotel block in the central region recounts the location where Edward Amerige placed his stake and would serve as the location of the St. George Hotel (1888), one of the first buildings constructed in the nascent town. The map also shows the railroad and accompanying landscaping along the southern extent of the town (Figure 5).

As industry took root in the area, the downtown corridor steadily expanded. Early pioneers included Dr. George C. Clark, first physician, whose residence is now situated on CSUF's arboretum; William Starbuck, first druggist; E. E. Beasley, first postmaster; T. S. Grinshaw, first lumber yard owner; and A. A. Pendergrast, first blacksmith, among others.[5]

The first water well was drilled in September 1887 and the first train traveled to Fullerton in the autumn of 1888. A photograph from this year shows the original Fullerton Depot as it stood after its completion (Figure 5). Although the building is no longer extant, the photograph provides evidence of the relatively sparse landscape and mustard fields that characterized the area. This flat, somewhat arid land was dramatically changed with the later introduction of citrus farming.

Figure 5 Fullerton Depot in 1888



Source: Fullerton Public Library, 1888

In 1904, Fullerton was incorporated as a city. It was recorded as occupying 18 miles with a population of 3,000 people. The Fullerton public library was founded as a reading room in 1902 and replaced with a Carnegie-funded building in 1907 (demolished in 1940).[6] Examples of resources associated with this early founding era include the Henry Hetebrinker House, a rare example of a 19th century brick residence, as well as the Dr. George C. Clark House and Office, which was moved to the campus in 1972.

Early Agricultural Development in the Area

Agricultural development in the area falls into two main eras: an early, noteworthy experiment in a vegetarian colony (known as the "Placentia District") on and near the present site of CSUF, and the subsequent era of citrus cultivation. The first development occurred in the 1870s with the establishment of Thales Ranch, or the Placentia Colony, on ten acres that would later be purchased for CSUF. The second wave of agricultural development occurred in the 1880s with the introduction of citrus plants to the area. Many of these orchard fields were also purchased for the development of CSUF.

The Vegetarian Colony of the "Placentia District"

Including a portion of CSUF, Thales Ranch was founded in circa 1885 by Englishman George Hinds, Methodist preacher Walter Lockwood Thales, and William Weiderholdt. The vegetarian colony spanned 10 acres, with six acres planted with persimmons, two with avocados, one with guavas, and the remaining land with various tropical fruits. [7]

In 1901, the *Los Angeles Times* published a full-page story on the colony. Titled "Queer Spirits of Vegetarian Sect: They Live in Round Rooms and on Cocoanut Milk—Vagaries of Placentia's Unique and Unhappy Colony," the article provided insight into the Vegetarian Society at the Ranch, also known as the Placentia Settlement. The article recorded the groups' belief in good and evil spirits, and their learnings towards theosophy.[8]

Members of the group who died while residing at the colony were buried on the land in widely separated places; some were exhumed in the 1970s.[9] Settlers living in the surrounding area were very wary of the colony and referred to those living there derogatorily as "grass eaters." In 1874, the group built a mansion at the ranch (Figure 6).

According to a *Santa Ana Register* article from 1931:

> During the 46 years these three men were owners of the place, they developed from a bankrupt property perhaps the most valuable ranch in the community, the real estate being worth at that time about $60,000.[10]

During the history of the ranch there was some controversy as to its nature, with some factions arguing that there was a "free love colony" on the ranch, thereby earning the name of the "Placentia Colony."[11] The group's secretive and isolated nature fueled these rumors, as most contact with outsiders was limited to the sales of nuts and fruit. One lasting contribution of the colony to the community was in the development of the "Placentia Perfection" walnut, which accounted for a third of all walnuts grown in California by 1933. [12]

The deaths of Hinds (in 1911) and Thales and Weiderholdt (in 1921) signaled the decline of colony, which was purchased in 1931 by S. James Tuffree. At that time, Tuffree demolished the ranch. The state subsequently purchased part of the land from Tuffree for development of the CSUF campus.

Figure 6 Original Placentia Colony Residence (1901)

Source: Los Angeles Times, 1901

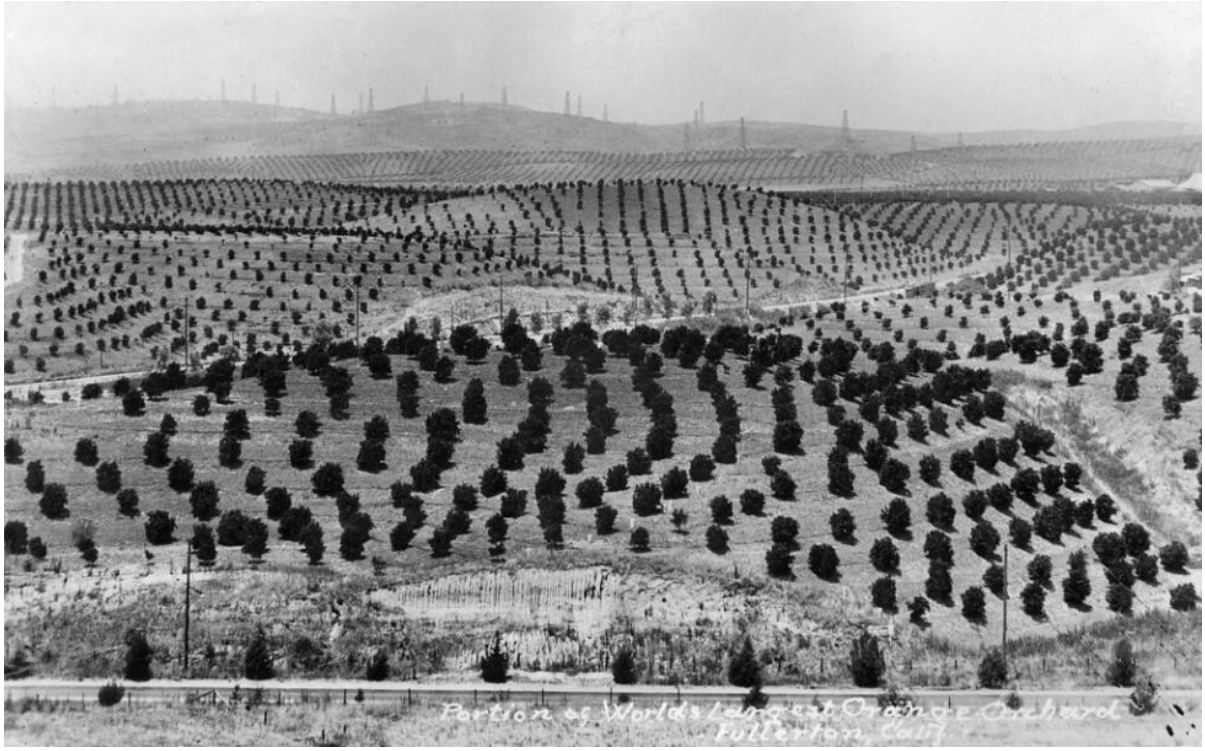
Citrus in Fullerton

Perhaps the most dramatic change in the City's character came in the form of agriculture, and more specifically, citrus. One of the pioneering citrus farmers in Fullerton was Charles C. Chapman. Chapman, a retired publisher from Chicago, moved to Fullerton in circa 1889, where he acquired land and began cultivating Valencia oranges. His "Old Mission" brand of oranges became a customer favorite. Chapman also enjoyed success in the oil industry; his famous Chapman "Gusher" secured him a position as one of the town's richest citizens. He also served as the first mayor of Fullerton. [13]

Another early, successful citrus farmer in the area was Richard H. Gillman, who settled near the land currently occupied by the CSUF Arboretum. Gillman began cultivating oranges in Fullerton in 1875. Operating as the "Semi-Tropic Fruit Ranch," many of Gillman's groves survived until the 1970s, when they were removed for construction of the campus. Some of the original trees are said to have survived, but further information (i.e., confirmation by an arborist) was not available at the time of this study).[14]

In the late nineteenth century, a number of early ranching families in Fullerton transitioned to agriculture. The Hetebrink family, which had operated a dairy farm since 1874, turned to citrus cultivation after the crop's popularity and profitability became evident. The Bastanchurt family, which owned a herd of over 1,000 sheep, also turned to citrus by the late 19th century. By the 1920s, Gaston Bastanchurt owned one of the largest orange groves in the region, with over 3,000 acres within the city limits of Fullerton and an additional 8,000 acres under lease (Figure 7).[15]

Figure 7 A "Portion of World's Largest Orange Orchard, Fullerton"



Source: Photo Courtesy Orange County Historical Society, n.d.

By the turn of the century, many of the farmers of Fullerton organized into co-operative associations. These associations were responsible for tracking citrus market conditions to ensure proper distribution of the city's products. This cooperative marketing organization allowed otherwise competing farmers to work together towards. [16] Continuing in the 20th century, these co-operatives brought new technological advances and industries to local farmers.

In the 1920s, many farms in Fullerton began to make use of the latest technologies in food processing as well as food production. With these improvements, production continued to expand. In 1928, for example, the estimated value of Fullerton agricultural industry was approximately $30 million.[17] A number of orange packing companies were also established in this period, including the Elephant Packing House, Walnut Packing House and Fullerton Packing Company; these packing companies further supplemented the city's economic growth and served as strong employment centers (Figure 8).

Figure 8 Fullerton Packing Company

Source: Fullerton Public Library, n.d.

Along with this expanding employment base, Fullerton's population grew rapidly in the mid-1920s and early 1930s as many new settlers arrived. By 1926, Fullerton's population had grown to over 12,000.[18] In addition, the economy continued to diversity, with the industrial sector also showing rapid expansion through the boom of the 1920s. In 1926, the Fullerton Chamber of Commerce purchased 240 acres of land for industrial development. Industries established included a glass factory, fruit juice plant, and a gas absorption machine plant. This growth was noted in a 1928 newspaper article, which observed:

> Fullerton has twenty-three active plants, which include eleven citrus fruit, walnut and avocado packing plants, agricultural machinery, brick manufacturing, four-unit cannery, piston ring manufacturer, two citrus fruit juice manufacturers, tile, shock absorber, two wholesale ice houses, ornamental brick, and ornamental iron works, wholesale bakery, auto top and lawn sprinkler manufacturers. [19]

Citrus production continued to be an important industry in Fullerton into the 1930s, following a general decline during the Great Depression. During World War II, many defense-related industries arrived in the county (and the region). Following the war, the agricultural character of Fullerton and Orange County slowly began to shift, with acres of groves giving way to new residential tracts and accompanying amenities. The citrus groves on the site of present-day CSUF were cleared in the 1960s and 1970s.

Fullerton's early association with the agriculture and citrus industry is evident in numerous resources in the City and on the CSUF campus. Although the groves themselves are gone, a number of built environment resources associated with the early agricultural years survive. These resources include residences associated with notable farmers of the area, packing houses, industrial food

processing plants, and other buildings and structures. One example on the CSUF campus is the Hetebrink House (1884), home of the Hetebrink family.

The Titan House (Henry T. Hetebrink House)

The Henry T. Hetebrink House (1886) was owned by members of the Hetebrink family and remains extant on the CSUF campus. Henry T. Hetebrink, his wife Rebecca, and their five children migrated from Hanover, Germany to the United States in 1859. Hetebrink served as a member of the school board (Figure 9).[20]

Figure 9 Mr. and Mrs. Hetebrink

Source: Fullerton Public Library, n.d.

In 1874, the Hetebrink family settled in the Placentia District, an area that was later divided between Fullerton and Placentia. After a short-lived dairy farm venture, the family turned to cultivating citrus and walnut groves, staples that came to characterize the region. A fire in the early 1880s destroyed the original Hetebrink house, and Henry T. Hetebrink built the current brick Colonial Revival-style residence in 1886. The house was built using bricks that were produced locally in a kiln near present-day Fullerton College. Around this time, the Hetebrink family began to focus on citrus cultivation, planting hundreds of Valencia orange trees on much of their 160 acres of land. Henry T. Hetebrink passed away in 1906 and Rebecca Hetebrink died in 1912. Three of their five children survived to adulthood: Henry F., John W., and Minnie.[21]

Henry F. and Minnie remained ranchers on their parent's land for several years after their deaths. Henry F. Hetebrink sold much of his land off piecemeal, with his last four acres sold in 1950. Eventually, much of the Hetebrink ranch would be sold to CSUF.

The Hetebrink residence survives in its original location; it is a Colonial Revival-style brick house with a hipped roof (Figure 10). According to documents on file with the City of Fullerton Planning Department, the Hetebrink residence is the only remaining residential brick home from the City's pioneering years, as well as one of the oldest in the County.[22] In 2000, CSUF restored the house at a cost of $500,000.[23]

Figure 10 Henry T. Hetebrink House (1886), Surviving Citrus-related Property at CSUF

Source: Chas Metivier, Orange County Register, n.d.

The George G. Golleher Alumni House (Mahr House)

Extant in its original location, the 1931 Mahr House was originally owned by members of the Hetebrink family. The Spanish Eclectic style home was designed and built for Lottie Hetebrink by Clinton F. Abbott of Pacific Ready-Cut Homes (Figure 11). The permit for the 15-room home was pulled in 1931.

Lottie Hetebrink was the daughter of Fullerton pioneer Diedrich Hetebrink (older brother of Henry T. Hetebrink).[24] She ultimately did not reside in the home, however, and after filing for bankruptcy in 1938, the home was ultimately sold to Andre and Opal Mahr in 1939.[25]

A native of Telluride, Colorado, Andrew Mahr and his family moved to Santa Ana and established a citrus farm. The family resided in the house until 1959, when it was purchased for the CSUF campus.[26] The residence is located in its original location along the eastern boundary of the campus, just south of the intersection of Melody Lane and State College Boulevard.

Figure 11 Mahr House (1931), Surviving Citrus-related Property at CSUF

Source: Fullerton Public Library, n.d.

The Heritage House (Dr. George C. Clark House and Office)

Constructed in 1896, the Dr. George C. Clark House and Office is a distinctive, intact example of the Eastlake Victorian style architecture in Fullerton. The home was built for Dr. George C. Clark, who served as Fullerton's first physician (Figure 12).[27] According to the City of Fullerton, Clark was instrumental in the 1913 construction of the Fullerton General Hospital.[28] Originally located at 114 North Lemon Street in the original town site, the residence was moved to the CSUF Arboretum in 1972 (Figure 13). The property is listed in the NRHP.

Figure 12 Dr. George C. Clark House and Office on North Lemon Street

Source: Fullerton Public Library, n.d.

Figure 13 Dr. George C. Clark House and Office, Moved from North Lemon Street

Source: Fullerton Public Library, 1972

Early Institutional Development in Fullerton

Institutional development in Fullerton stretches back to the late nineteenth century, when the Fullerton School District was founded in 1888, a year after the city's establishment. Early instruction was held for children of all ages at one building, known as Fullerton School. A photograph from 1899 depicts the early schoolhouse(Figure 14).

The city's first higher education institution, Fullerton College, was founded in 1913 at the bequest of the Fullerton Union High School. The college is one of the oldest continuously operating community colleges in the state.[29] Originally located on the high school campus, the school was run by a "College Department" until 1921, when California legislature permitted the formation of independent junior colleges. The following year, the school's Board of Trustees formed the Fullerton Junior College District. Offering general studies, the school provided a two-year postgraduate degree to residents of the still-largely agrarian community.

Figure 14 Fullerton School in 1899

Source: Fullerton Public Library, 1899

3.2 Postwar Boom in Orange County and Fullerton

World War II ushered in a new era of expansion in California. Its training camps, military facilities, and proximity to the Pacific placed the state at a particularly advantageous position for heavy military traffic. Over the course of the war, an estimated seven million soldiers spent time in California.[30] With this influx of west coast attention came a greater emphasis on its industry: during the war Southern California ranked first in the country for aircraft manufacturing.

By the end of the war, the population boom in Southern California had triggered a dire housing shortage. After the war, government officials estimated an immediate need for five million housing units and over 12 million units in the ensuing years.[31] The Federal Housing Administration (FHA)'s mortgage guarantee program put homeownership within reach for many returning veterans and others. The resulting construction boom, throughout Southern California, transformed miles of agricultural or undeveloped land into new housing tracts.

Orange County was no exception in this respect, as acres of citrus groves gave way to new housing tracts.[32] These housing tracts accommodated the rapid influx of new residents. In 1953, the *Independent Press-Telegram* commented on this population and construction expansion, noting that "well-kept residential streets stretch out in every direction in Fullerton, and hundreds of new homes are under construction."[33] Large-scale housing tracts included Orangethorpe Manor with 572 homes and Orangewood Tract No. 2 with 175 homes. [34] In 1954, the Fullerton Grove Tract was completed by Pardee-Philips Construction and architecture firm Jones and Emmons.

Fullerton Heritage has recorded a number of postwar tract homes in the city, identifying the first area for their development as the land east of Lemon Street and west of Woods Avenue. Residences were typically box-shaped residences with few decorative detailing.[35] As families poured into the region, the demand for schools and other public institutions and amenities increased accordingly.

Hughes Aircraft in Fullerton

One major catalyst for the population influx in Fullerton was the establishment of the Hughes Aircraft Ground Systems Group. Founded by pilot and businessman Howard Hughes, the company established a 350-acre complex in the Sunny Hills neighborhood of Fullerton in 1957. The company excelled during the technological advances of the Cold War, and the Fullerton complex specialized in building air defense systems, anti-submarine systems, and battlefield radar. In 1959, the company won a $400-million contract to develop an air defense system for the North American Treaty Organization. The company became so entwined in the community of Fullerton that Mayor A. Buck Catlin was often caught claiming that "Hughes is Fullerton, and Fullerton is Hughes."[36]

The heyday of the company spanned the 1950s and 1960s, before significant defense cuts in 1970 forced the company to lay-off over a third of its staff. The company eventually closed in 1994. It was later purchased and operated by Raytheon Company. During the height of its activity in Fullerton, the company employed close to 8,000 employees.[37] This large workforce resided in the surrounding city, and as many had families, the city's municipal and educational institutions expanded to meet the increased demand.

Institutional Expansion and California State University

In the postwar period, the educational and institutional expansion mirrored and was driven by this rapid population growth, in Orange County and California (and beyond).

For Fullerton College and the California State University system (as with the University of California system), the postwar years put an increase strain on the already popular schools. In 1944, U.S. President Franklin D. Roosevelt established the Servicemen's Readjustment Act, commonly known as the G.I. Bill of Rights. One major component of this bill was a stipend for college tuition:

> [The bill] gives servicemen and women the opportunity of resuming their education or technical training after discharge, or of taking a refresher or retrainer course, not only without tuition charge up to $500 per school year, but with the right to receive a monthly living allowance while pursuing their studies.[38]

As a result, thousands of veterans enrolled in higher education programs in California. Four hundred universities and colleges in California were approved for the program, with over fifty percent of veterans attending fifty of the approved schools. Between 1946 and 1947, over 850 veterans attended Fullerton College alone.[39] This influx also affected the California State College System, and additional campuses were established in Sacramento (1947) and Long Beach (1949). The original campus established in Los Angeles in 1882 eventually became University of California at Los Angeles, and a subsequent campus was opened at its current location in 1947.[40]

Yet, despite this rapid expansion, the need for colleges in California continued unabated into the 1950s. Within four years, seven additional California State College campuses were established in the state: Fullerton (1957), Hayward (1957), Stanislaus (1957), San Fernando Valley (1958), Sonoma (1960), San Bernardino (1960), and Dominguez Hills (1960). In 1960, the Donahoe Higher Education Act united the individual California State Colleges. By 1972, the California State University and Colleges system was created, and schools changed their names to include "California State University," commonly followed by their location. A decade later, the system was formalized into the California State University program that is still in place across the state.[41]

The Founding of CSUF

Well into the postwar period, Orange County was still home to acres and acres of the citrus groves that had given the County its name. At the same time, Southern California's population continued to grow exponentially, and the agricultural character of Orange County and Fullerton began to shift and give way to development and residential settlement.

In the case of Orange County State College, at the time of its founding in 1957, the site was still occupied by a series of expansive citrus fields and farms. The 1938 aerial photograph shown in Figure 16, illustrates the extent of these fields, along with several associated buildings and structures. Also shown on the photo (and extant as of 2019) are two residences associated with these early citrus farms: the Henry T. Hetebrink House (constructed in 1886, now known as the Titan House) in the center of campus, and the Mahr House (constructed in 1931, now serving as the Alumni Center), along the campus's western boundary (Figure 15).

Both residences are extant and known historical resources (and described in more detail below). An additional resource, the Beazeley family's residence was used as the campus' first Speech and Hearing Clinic until it was razed in the 1960s.[42]

The site of Orange County State College in eastern Fullerton was chosen from nine other potential locations for the new school. State officials recognized the area as an ideal location to accommodate the influx of college-seeking adults in Orange County. Because the acquisition of the proposed 252-acre campus was costly, the land was purchased in three phases. In November 1958, legislature approved purchase of the first 160 acres of land for the school.[43] An additional 77 acres were

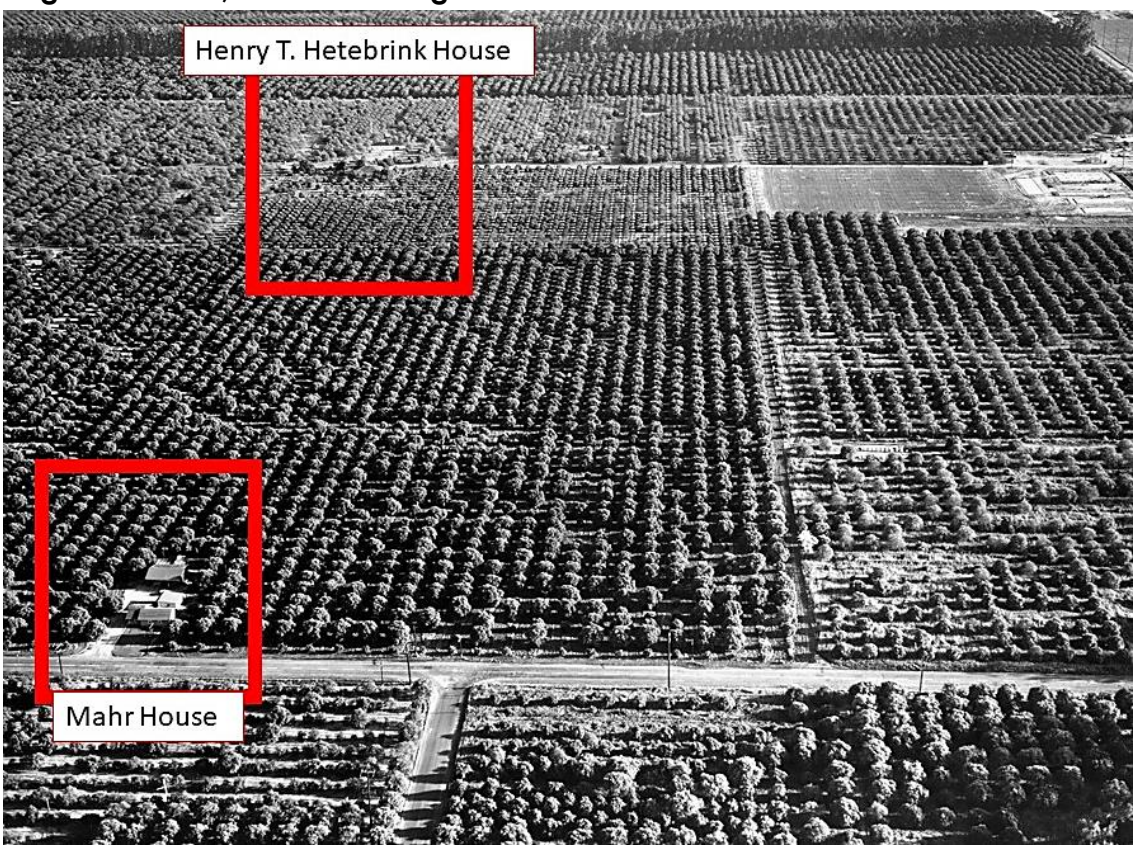
approved the following year in July 1959.[44] A final land acquisition of approximately 15 acres was completed in 1960.[45]

The nine owners of the 252-acre campus were compensated for their land.[46] Most landowners were agricultural farmers who owned and operated citrus enterprises prior to development, as shown in the prominent agricultural fields from aerials of the period (Figure 16). With the campus' land purchased, the school anticipated an immediate demand for classes and sought to establish temporary quarters for students and teachers while permanent buildings were under construction. From 1959 until 1961, classes were held in rented quarters at the Sunny Hills High School. In 1960, a series of temporary, one-story buildings were added along the western portion of the campus; the buildings were constructed by Allison Honor Company of Santa Ana.[47]

In January of 1959, William B. Langsdorf was named president of the school. Langsdorf studied at Occidental College, received a Ph.D. from University of California, Berkeley, and served as the president of Pasadena City College.[48] He was sworn into the position on March 1st of that year. Under Langsdorf's guidance, the college sought to provide training for in-demand jobs by creating specialized education tracts for elementary school teachers, business administration majors, secondary school teachers, and electronic engineers.[49]

The heart of the CSUF campus was developed and constructed through three principal master planning efforts: Phase 1 (1960), Phase 2 (1962), and Phase 3 (1974). The following sections outline a general construction chronology for CSUF, by master planning efforts.

Figure 15 Citrus Fields at Future Site of CSUF, Intersection of Dorothy Lane and State College Boulevard, Camera Facing East towards Hetebrink and Mahr Houses



Source: Fullerton Public Library, 1960

Figure 16 Aerial Photograph showing Current-Day Boundaries of CSUF, as Shown in 1938

Source: Environmental Data Resources, 2019

Phase 1: 1960 Master Plan, 1960-1969

As construction began in earnest, development of the campus began in the southern region of the site, accessible via Nutwood Avenue. Milton C. Blanchard and Dean Stuart F. McComb developed the college's building program, which by 1961 included an $80 million master plan.[50,51] The plan covered a 20-year period from 1960 to 1980 and sought to make the fledgling school one of the state's top educational institutions. Thirty-five baccalaureate and 24 postgraduate degrees were planned for a student body of 20,000 and a faculty of 1,000 full-time instructors.

The 1960 Master Plan, included below, called for the construction of 6 buildings: Letters and Sciences (1963), Music-Speech-Drama (1965), Physical Education and Gymnasium (1965), Library (1966), Cafeteria-Commons (1967), and Humanities and Social Sciences (1969; Figure 17).

Created as part of the first major building campaign at CSUF, the buildings display a unified site plan, with each component arranged around a central quad and commons. Unified by axial circulation corridors and landscaping, the early campus core was completed between 1963 and 1969. This early development is visible in the 1963 historic aerial which shows the construction of the Letters and Science Building (now McCarthy Hall) and portable buildings along the western extent of the land acquired. Much of the campus was still planted with citrus trees at this time (Figure 18).

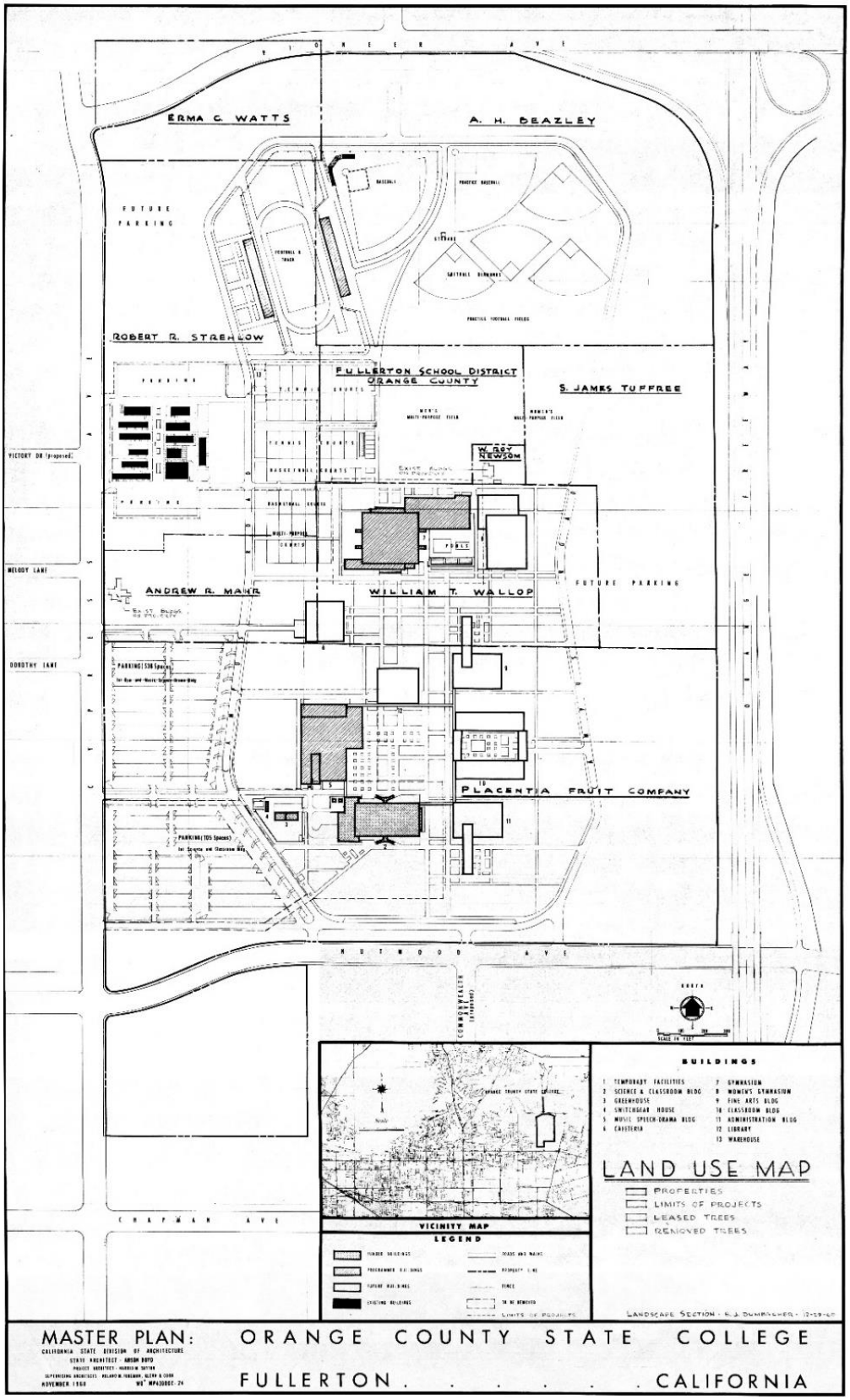
Milton C. Blanchard and Dean Stuart F. McComb developed the college's building program, which by 1961 included an $80 million master plan.[52,53] The plan covered a 20-year period from 1960 to 1980 and sought to make the fledgling school one of the state's top educational institutions.

A 1959 rendering of the campus portrays the initial, planned design of the campus as well as the originally constructed facilities. The central quad with its circulation corridors, Letters and Science Building, Music-Speech-Drama Building, and Physical Education and Gymnasium Building were all completed on the campus (Figure 19).

In 1966, the *Los Angeles Times* reported that "the hub of the layout [was] the mall starting at the south edge of the campus and heading north past the library, through the student center and winding up at the physical education building."[54] This central region serves as the historic core of the campus.

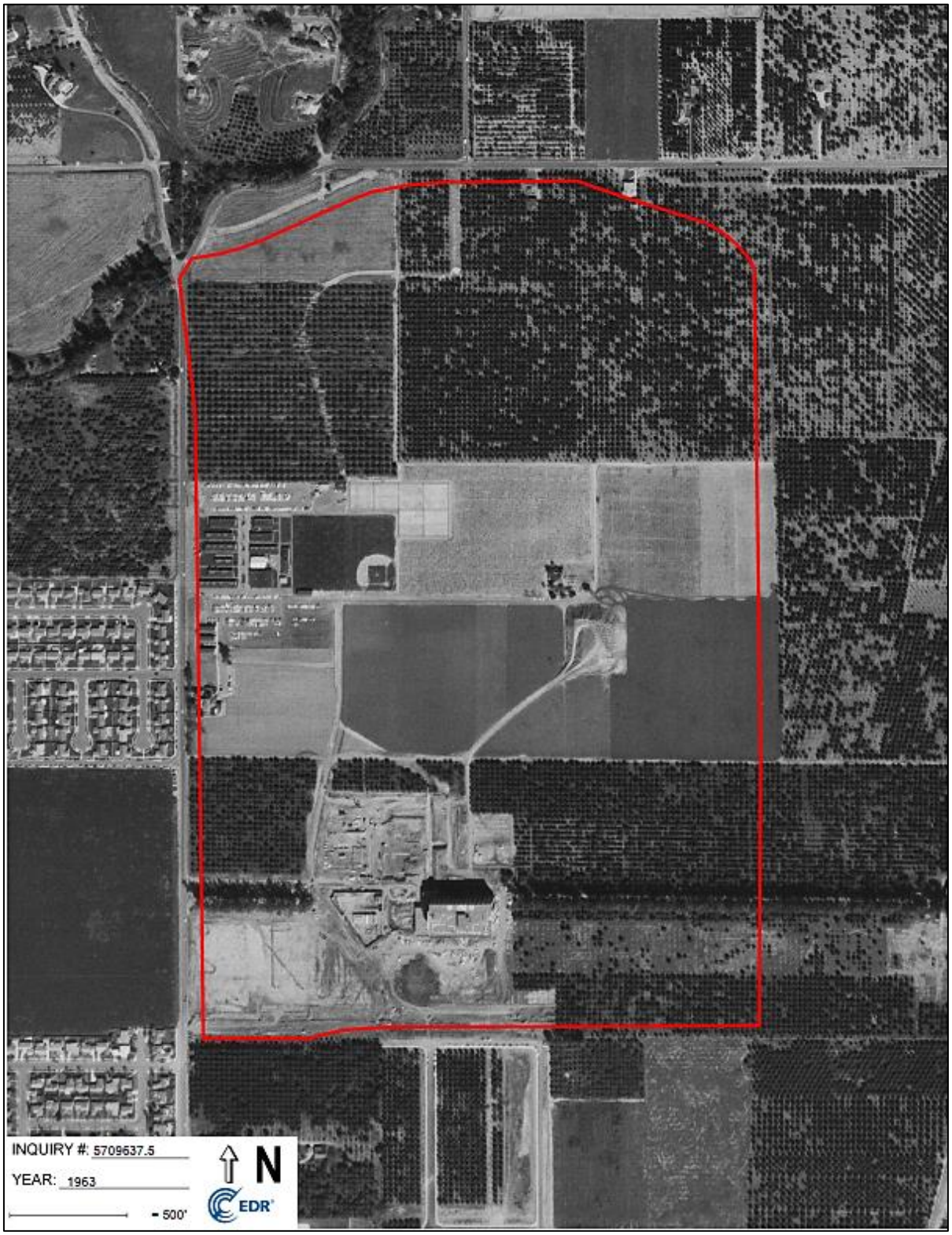
A "birds-eye view" of the campus from 1966 shows the spatial relationship of the first four buildings constructed: the Letters and Science Building (1), Music-Speech-Drama Building (2), Physical Education and Gymnasium Building (3), and Library (4). It also shows the locations of the planned Visual Arts Building (A), Cafeteria-Commons Building (B), and Humanities and Social Sciences Building (C; Figure 20).[55] Although the 1960 Master Plan called for a Visual Arts Building, the design and location of the building evolved from the design stages to construction.

Figure 17 Land Use Map, 1960 Master Plan



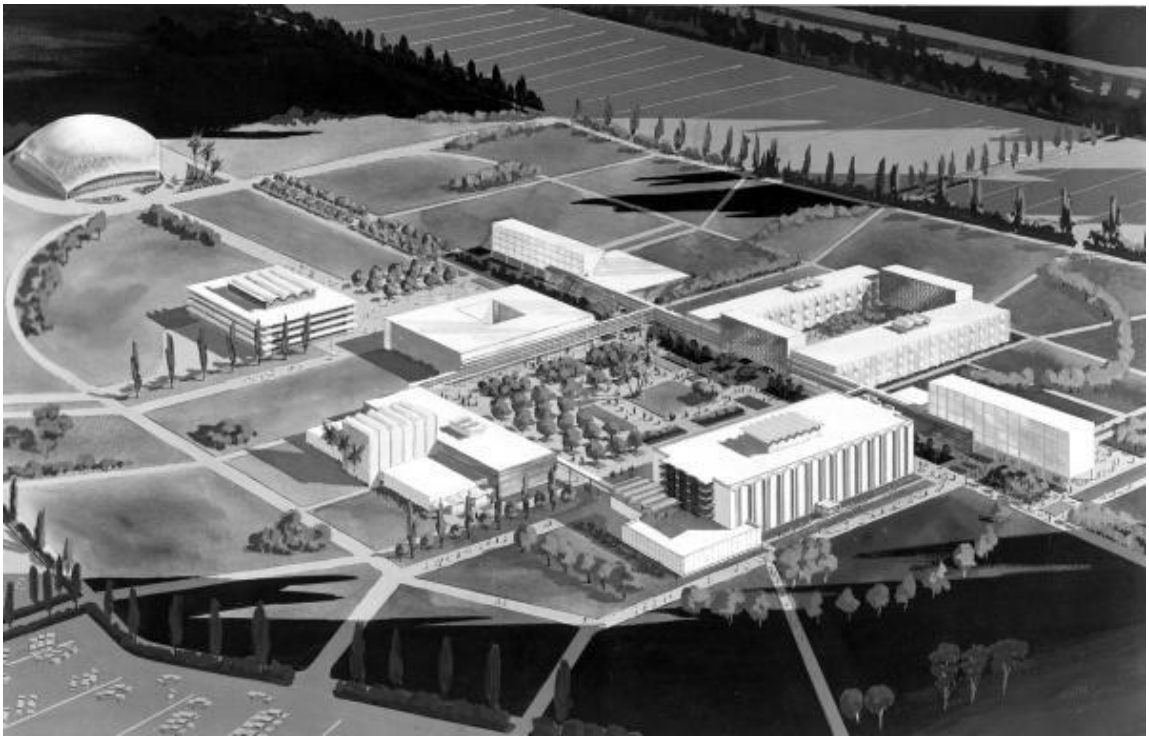
Source: California State University, Fullerton, 1960

Figure 18 1963 Aerial Photograph



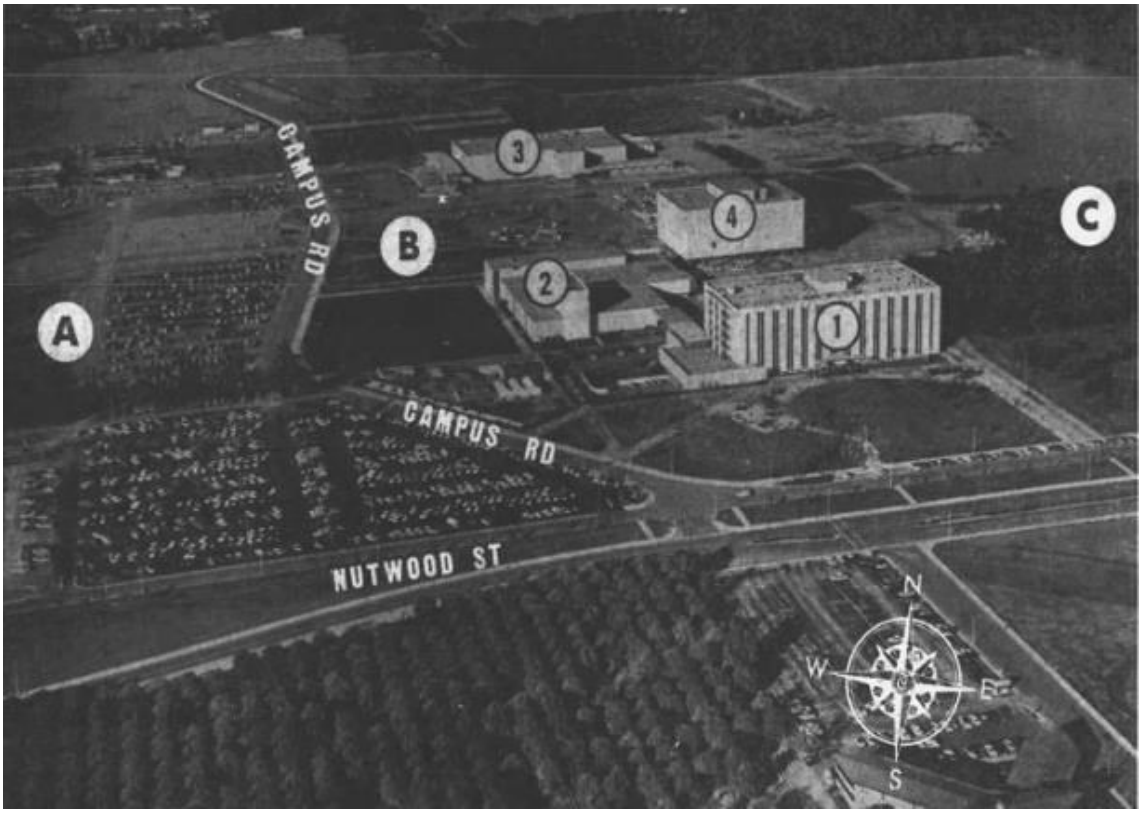
Source: Environmental Data Resources, 2019

Figure 19 Rendering of the Campus (1959)



Source: CSU Fullerton Public Library, 1959

Figure 20 Birds-Eye View of Campus



Source: Los Angeles Times, 1966

Letters and Science Building (McCarthy Hall)

The first permanent building, the $11 million Letters and Science Building (now McCarthy Hall) was completed in 1963 by construction firms Kemp Brothers and George Thompson, both of Los Angeles.[56] It was lauded as the largest building in the nation devoted to science classes at the time. The building was an engineering feat for the campus; the 75-ton tower crane used to construct it was so large that a special railroad was constructed to transport it to the site. The crane was capable of lifting 12- to 15-ton concrete panels for the six-story building.[57]

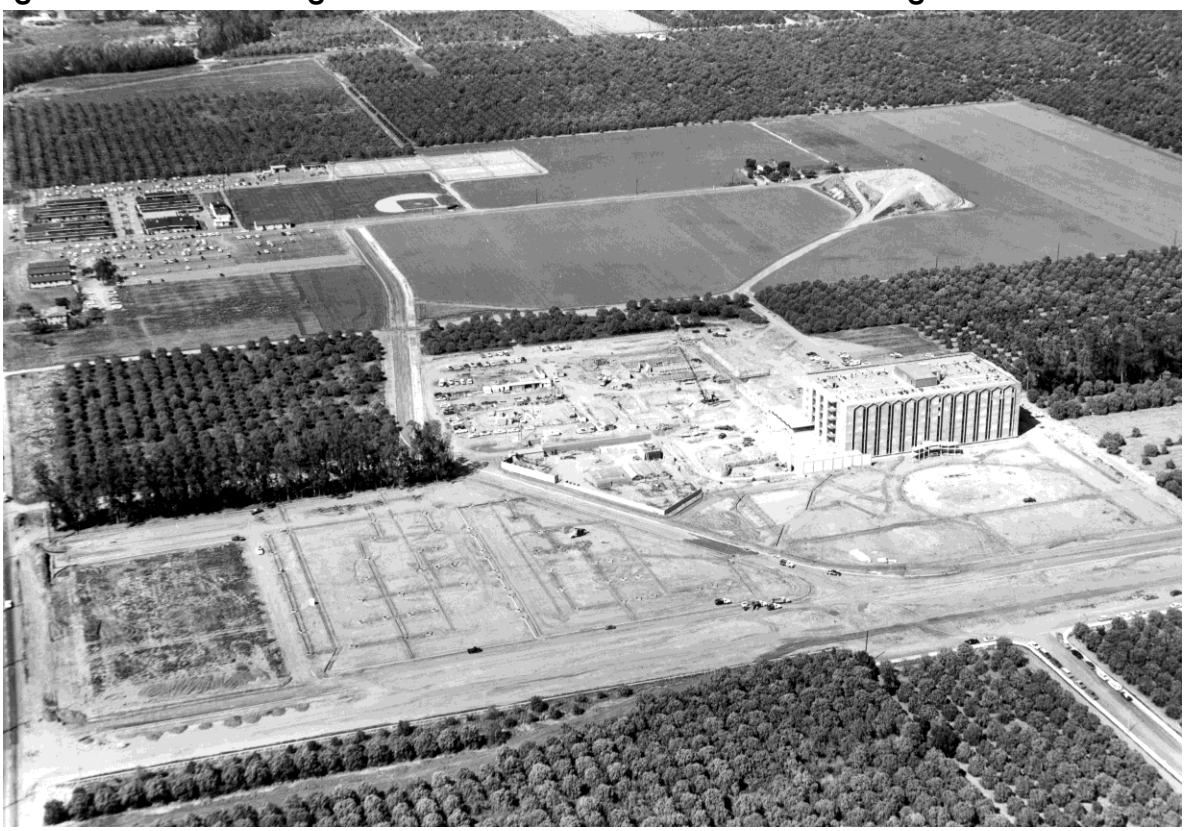
In May 1962, Governor Pat Brown dedicated the building while campaigning in Orange County.[58] A rendering of the Letters and Science Building was used in an advertisement for single-family residences planned around the campus (Figure 21).[59] Upon the building's dedication on October 11, 1963, a time capsule was incorporated into the base of the building.[60]An aerial of the campus at this date evidences the building's progress (Figure 22). The basement of the building was constructed as a nuclear fallout shelter and housed the school's library prior to the completion of the Pollak Library.[61]

In 1984, the building was renamed the Miles D. McCarthy Hall (McCarthy Hall). A professor of biology, McCarthy was a founding faculty member at CSUF and served as an acting president in 1981.

Figure 21 Rendering of the Letters and Science Building

Source: Los Angeles Times, 1961

Figure 22 Aerial Showing Construction of Letters and Science Building



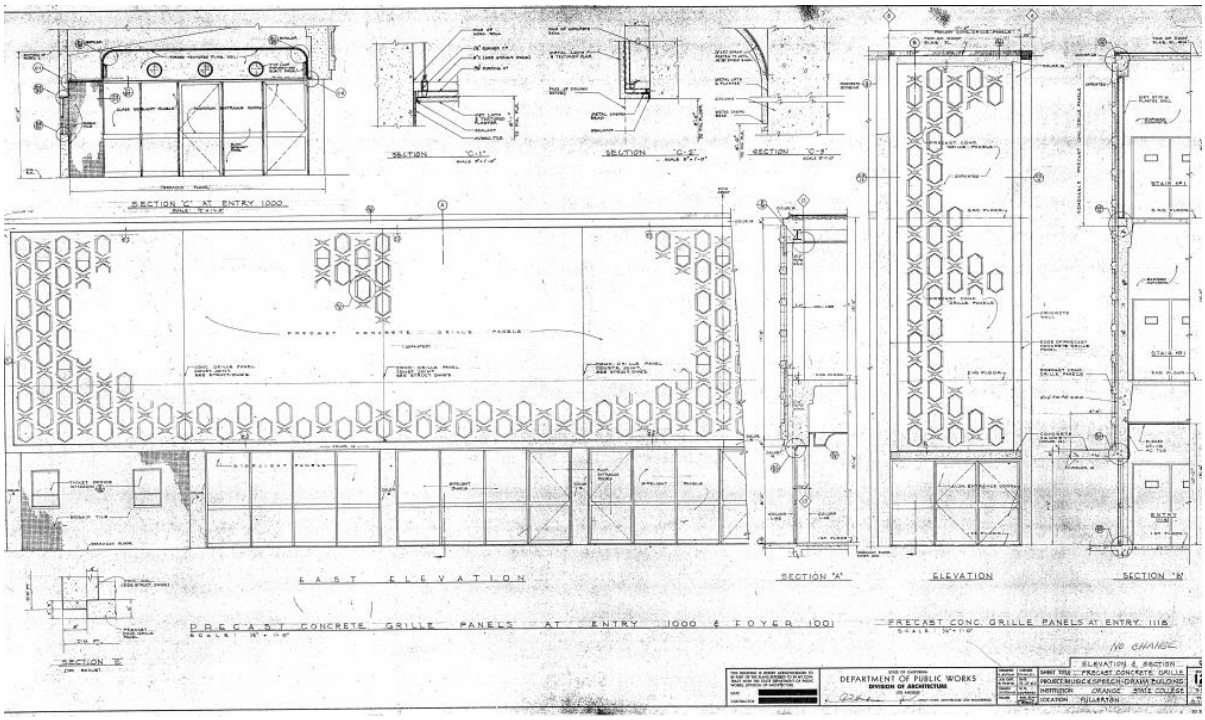
Source: Fullerton Public Library, 1963

Music-Speech-Drama Building (Clayes Performing Arts Center)

The Music-Speech-Drama Building (now Clayes Performing Arts Center) was the campus' second permanent building. Construction began in 1963 and was completed by January 10, 1965 by R. J. Daum Construction Company of Gardena. Building plans for the Music-Speech-Drama Building evidence its early design (Figure 23).

The approximately $4-million building included a 500-seat theater, 200-seat recital hall, costume dressing room, speech and hearing clinic, and radio-TV studios; amenities included air-conditioning and two passenger elevators.[62] It was capable of accommodating over 2,500 students. The building was substantially updated and altered in 2000, when an estimated $43 million expansion project was completed.[63]

Figure 23 East Elevation, Building Plans for Music-Speech-Drama Building



Source: California State University, Fullerton, 1962

Physical Education and Gymnasium Building (Titan Gymnasium/Kinesiology & Health Science Building)

In 1964, J. B. Allen Company of Anaheim won the bid to construct the school's third building, the Physical Education and Gymnasium Building.[64] The building was designed to seat 3,000 people and accommodate an additional 2,000 more seats when required. A 5,000-square-foot handball court was also part of the contract.[65] The building was completed in 1965. In 1967, two additional pool buildings were completed, forming a three-building complex.

The Physical Education and Gymnasium Building is situated due north of the Letters and Science Building, creating a north-south orientation on the campus quad that was further emphasized with the construction of the library (Figure 24).

Figure 24 Physical Education and Gymnasium Building

Source: Fullerton Public Library, n.d.

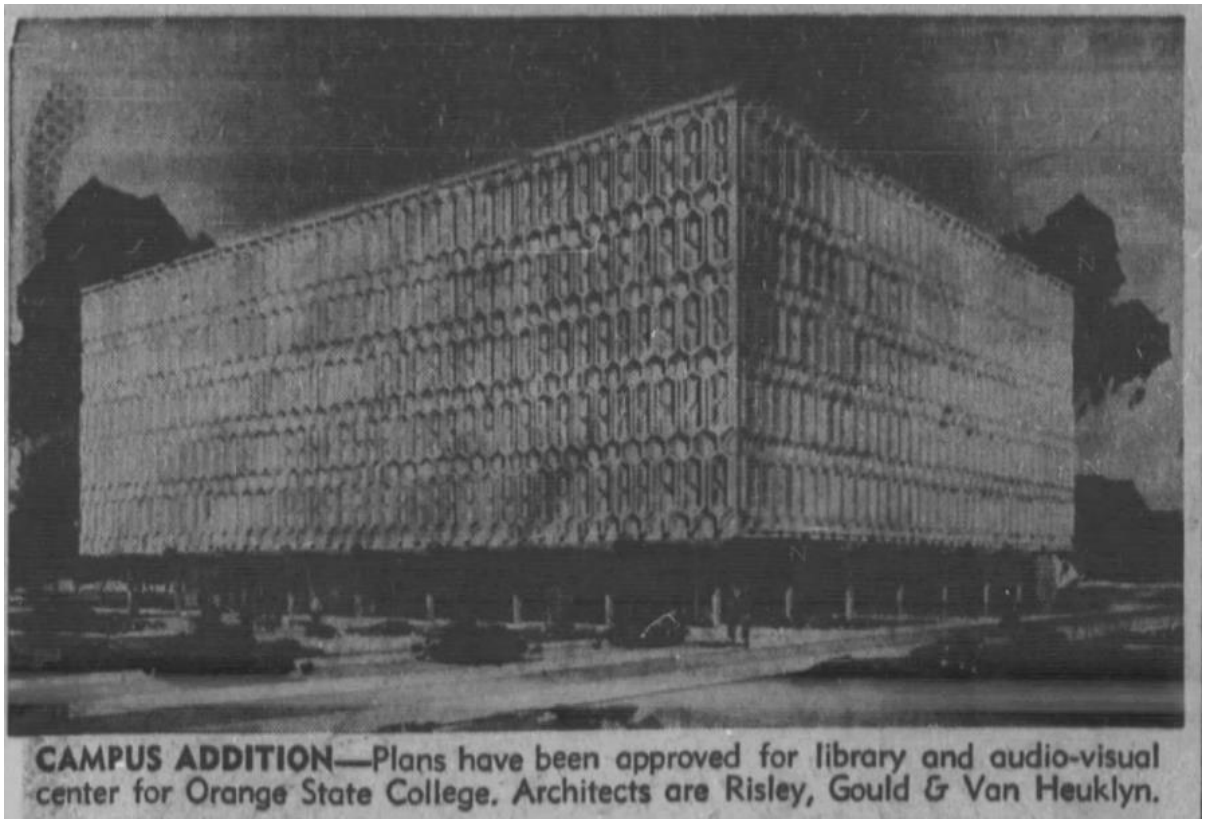
Library (Pollak Library)

Plans for the Library, the fourth permanent building, were approved in 1963. According to a press release from that year, the library was intended to "form the nucleus around which the 235-acre campus [was] planned."[66] Architects for the project were Risley, Gould & Van Heuklyn and the building was constructed by J. B. Allen & Co. In 1965, the building was described as "window-wrapped":

> The 220,000-square-foot structure features a ground floor of solid windows topped by five window-less floors. On each floor precast concrete panels give a window-like effect and repeat the motif of the new music-speech-drama building nearby.[67]

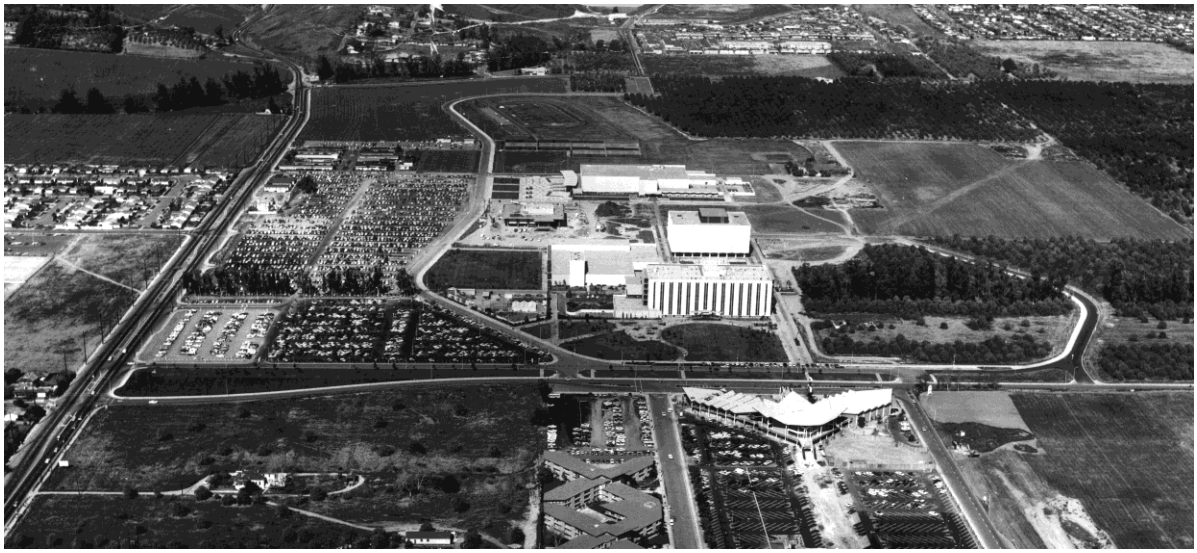
A 1963 artistic rendering of the building illustrates these strong geometries (Figure 25).[68] Landscaping for the campus' quad was complex, and included unifying circulation corridors and round planters arranged in geometric designs. The landscaping further emphasizes the connected nature of these four original buildings, and their shared spatial relationship. An aerial from 1967 shows the development of the campus, and the establishment of the historic core (Figure 26).

Figure 25 Rendering of the Library



Source: Los Angeles Times, 1963

Figure 26 1967 Aerial Photograph of Campus



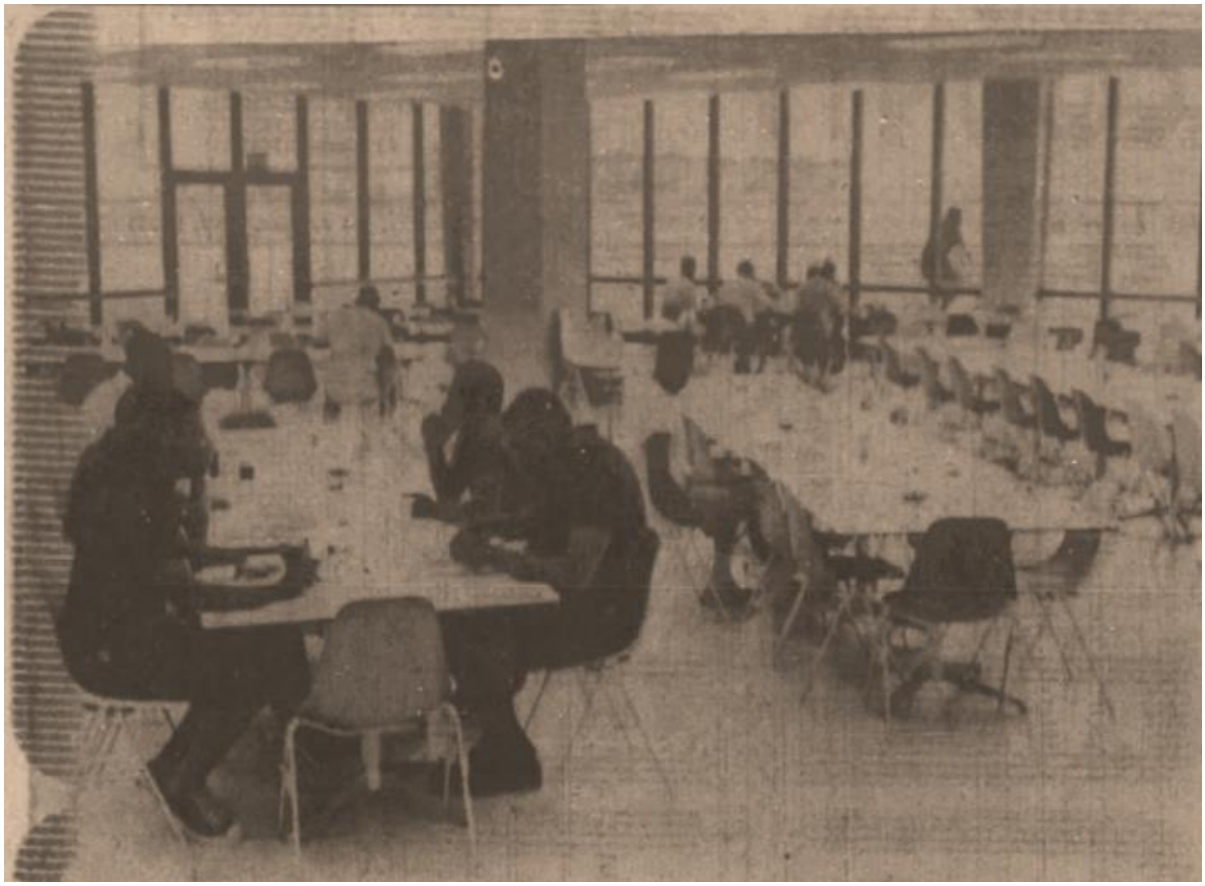
Source: Fullerton Public Library, 1967

Cafeteria-Commons (Book Store/Titan Shop)

The Cafeteria-Commons Building was the fifth permanent building completed on the campus. Constructed by R. J. Daum Construction Company of Gardena, the 40,000-square-foot 2-story "modernistic" Cafeteria-Commons Building cost approximately $1.1 million and was completed a month ahead of schedule in August 1967.[69,70]

The building was designed to be easily expandable. It currently serves as the Book Store/Titan Shop. The building was converted to the Book Store and shop at an unknown date but retains many of the design features from its early construction (Figure 27).

Figure 27 Cafeteria-Commons Building



Source: Los Angeles Times, 1967

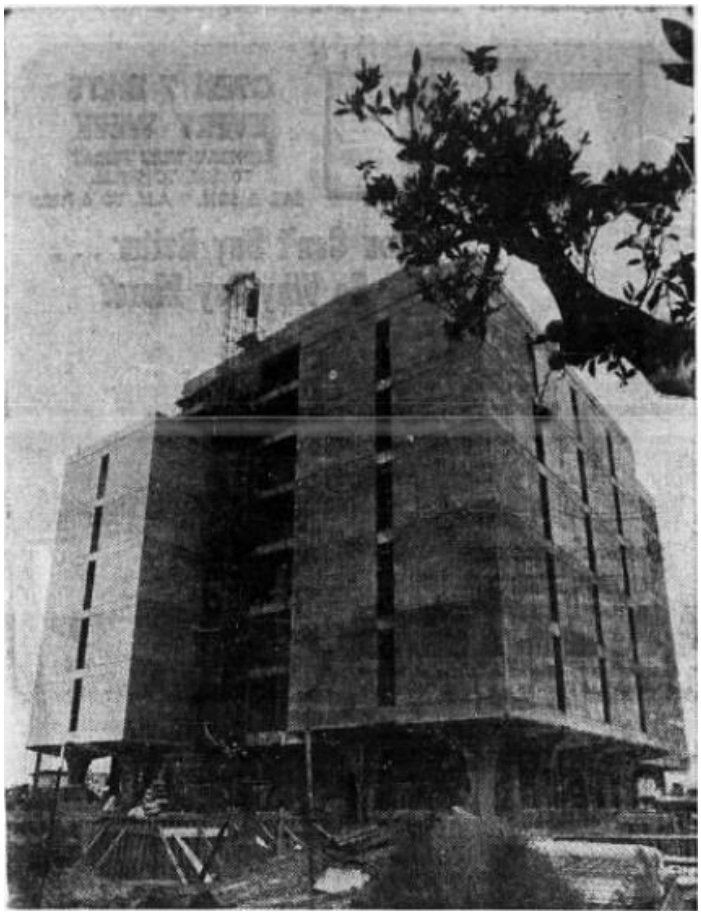
Humanities and Social Sciences Building

The 8-story, 144,900-square-foot Humanities and Social Sciences Building was designed by Thornton Abell and constructed by James I. Barnes Construction Company.[71] Construction of the building was underway by 1967 and completed in 1969.[72]

Upon completion, the building was described as a "shimmering eight-story alabaster… building ready for full time use."[73] It featured six floors for academic classrooms and two floors for faculty offices. A photograph of the completed building in a *Los Angeles Times* article from 1969 illustrates the building's distinctive New Formalist/Late Modern architectural detailing. The photograph also connects the area's agricultural history with its modern building program; a Valencia Orange tree

branch in the upper corner of the image serves as a clear reminder of the citrus fields that once occupied the area (Figure 28).[74]

Figure 28 Humanities and Social Sciences Building



Source: Los Angeles Times, 1969

CSUF's Early Years and the Elephant Races

In these early years, CSUF launched an event that became defining for the campus. On May 11, 1962, the school celebrated the "Day of the Titan," which featured the first intercollegiate elephant race. The elephant races were an important part of CSUF's early history and led to the adoption of the elephant as the school's mascot. Ten universities from around the country were invited to complete (Figure 29). According to one account:

> True to the finest traditions of elephant racing, over 10,000 fans jammed the infant Orange County State College campus Friday in Fullerton to witness "the first intercollegiate elephant race in human history." Modoc, Long Beach State College's speedy four-ton pachyderm turned the event into near chaos when she decided to get away from it all and return to her pen-running and bellowing through frightened and screaming, but uninjured spectators. Before she went wild, however, Modoc took first place in the varsity 95-yard elephant run with a record setting 23 seconds performance.[75]

Figure 29 Sigma Phi Elephant, Elephant Races in 1962

Source: Tessa Digital Collections, Los Angeles Public Library, 1962

Participants lured the baby animals across a cornfield dubbed "Dumbo Downs," using giant bottles of milk (Figure 30). The televised event was widely popular and in 1966 the student government named the school's elephant mascot "Tuffy the Titan."[76]

Figure 30 Elephant Being Lured Forward by Milk, Elephant Races in 1962

Source: Tessa Digital Collections, Los Angeles Public Library, 1962

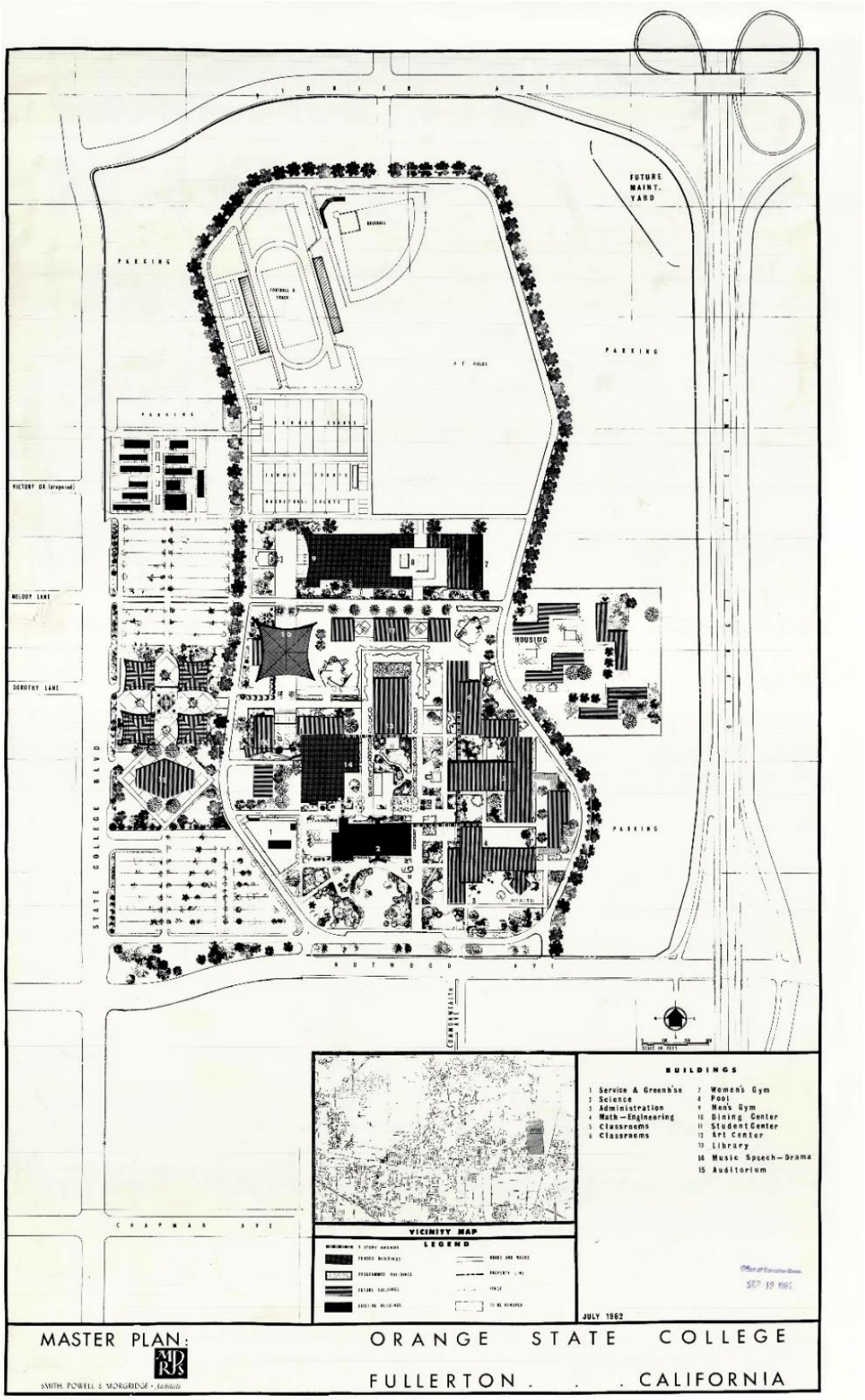
Phase 2: 1962 Master Plan, 1969-1974

By 1968, the college had reached over half of their expected enrollment, with 10,750 students enrolled for the fall semester. A year later, that number increased to 12,793 students occupying the "sprawling high-rise-style campus."[77] At this point, the CSUF was able to implement additional components of the 1960 to 1962 Master Plans.

Although an administration building and art building were identified in the 1960 Master Plan, their designs and locations were updated in the 1962 Master Plan. Buildings constructed during this second phase include the Visual Arts Building (1969), Engineering Building (1971), Administration Building (1971) and Health Center (1974; Figure 31).

As visible in a 1972 aerial, the unified, axial site plan of the campus was already intact by the early 1970s, with administrative and academic buildings located in the south of the campus and athletic fields in the northern extent of the campus (Figure 32). The 1972 aerial illustrates a cohesive site plan, accompanying landscape design, and circulation corridors throughout campus. Much of the peripheral land to this central core was used for parking lots; athletic fields were completed in the northern portion of the campus.

Figure 31 1962 Master Plan



Source: California State University, Fullerton, 1962

Figure 32 1972 Aerial Photograph

Source: Environmental Data Resources, 2019

The second phase of development mirrored and expanded the original historic core. Overall, buildings completed in the early 1970s were organized around the existing core and shared the aesthetic principals and design characteristics of the first six buildings. A rendering of the campus illustrates the general contours of the plan (Figure 33).

Figure 33 Artist Rendering of the Campus

Source: Artist Rendering Courtesy of Orange County Archives, n.d.

Visual Arts Building

Architect Thornton Abell designed the Visual Arts Building, the seventh permanent structure on the campus, in 1967. The complex of single-story wings surrounding a two-story building was completed in 1969 (Figure 34). [78,79] It consists of six principal components designed in a modular, Mid-Century Modern architectural style (instead of the monumental-scale, symmetrical New Formalism that characterized earlier buildings). Instead of the repeating geometries, and emphasis on monumentality, the Visual Arts Building is a pedestrian-scaled complex connected by sheltered arcades. Aesthetic effect is derived through a simple, modular design composition, with an overall lack of ornament and emphasis on the horizontal axis. Landscaping and site details include two decorative water features/sculptures near the western and eastern areas of the complex.

Upon its opening in 1970, the *Los Angeles Times* proclaimed the complex an “oasis” where the CSUF art department could settle; art exhibitions were immediately opened in the space.[80]

Figure 34 Rendering of the Visual Arts Building

Source: Los Angeles Times, 1966

Administration Building (Langsdorf Hall)

The 9-story Administration Building was slated for construction in 1968-1969.[81] The building was designed by architecture firms William E. Blurock & Partners of Corona del Mar and Back, Hutchason & Perkins of Los Angeles.[82] James I. Barnes Construction Company of Claremont served as the contractor.[83] It was completed in 1970 and renamed in 1974 as William B. Langsdorf Hall (Langsdorf Hall), in honor of the campus' founding president (Figure 35).[84]

Figure 35 Administration Building

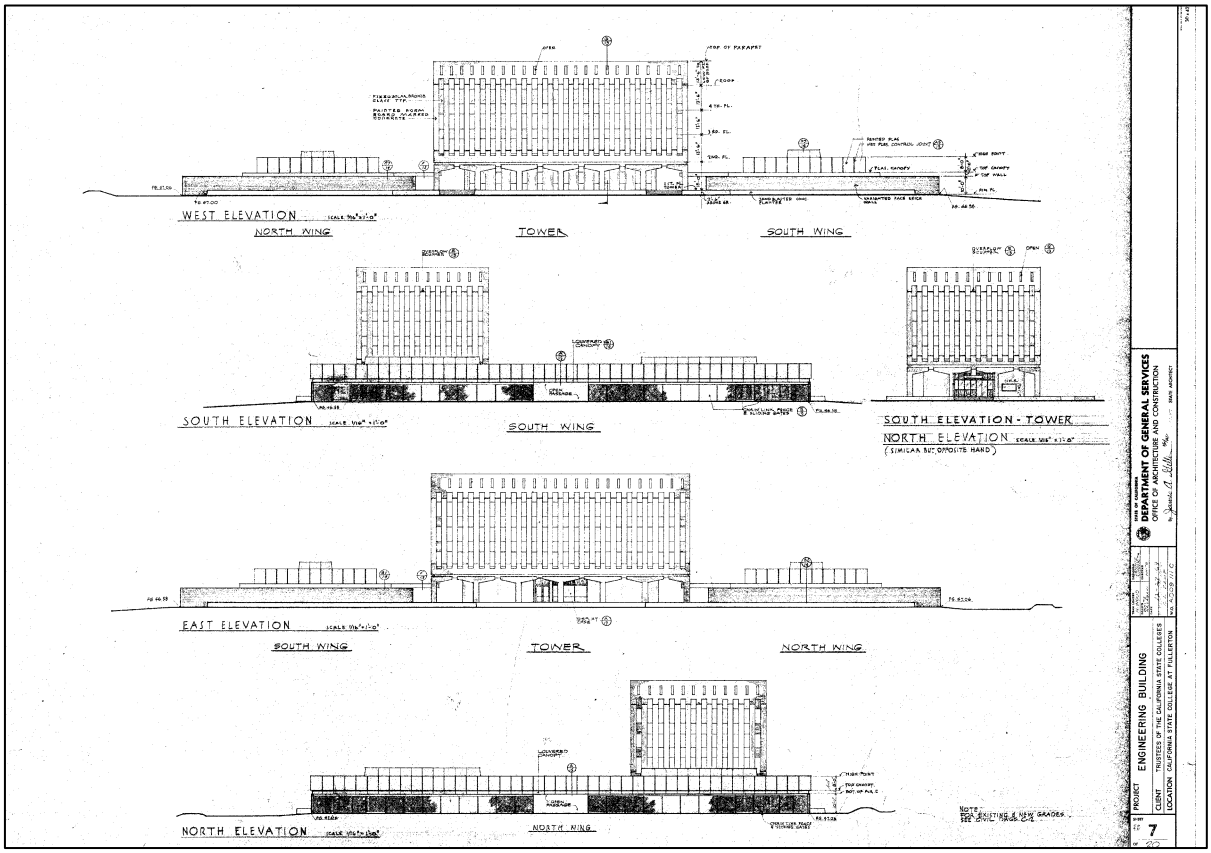
Source: Fullerton Public Library, n.d.

Engineering Building (Engineering and Computer Sciences Building Complex)

The Engineering Building Complex was originally intended to sit in the front of the campus according to early Master Plans. In 1967, executive dean Stuart McComb and trustees of the state colleges approved shifting the building to the eastern portion of the campus at a site previously set aside for student housing.[85] Tutor-Myers Company of North Hollywood was awarded the contract for construction of the building.[86] A 1967 article records the same architect "working on schematic plants for the engineering and administration-business building" (i.e., William E. Blurock & Partners and Balch, Hutchason & Perkins).[87]

In 1970, groundbreaking was held for the $3.4-million Engineering Building.[88] The building originally featured four 1-story satellite laboratories and a single one-story tower forming a U-shaped complex with a central court area. The five-building complex was completed in 1971 (Figure 36). The sixth, easternmost building in the complex was built in 1988.

Figure 36 North and South Elevations, Building Plans for Engineering Building Complex



Source: California State University, Fullerton, 1968

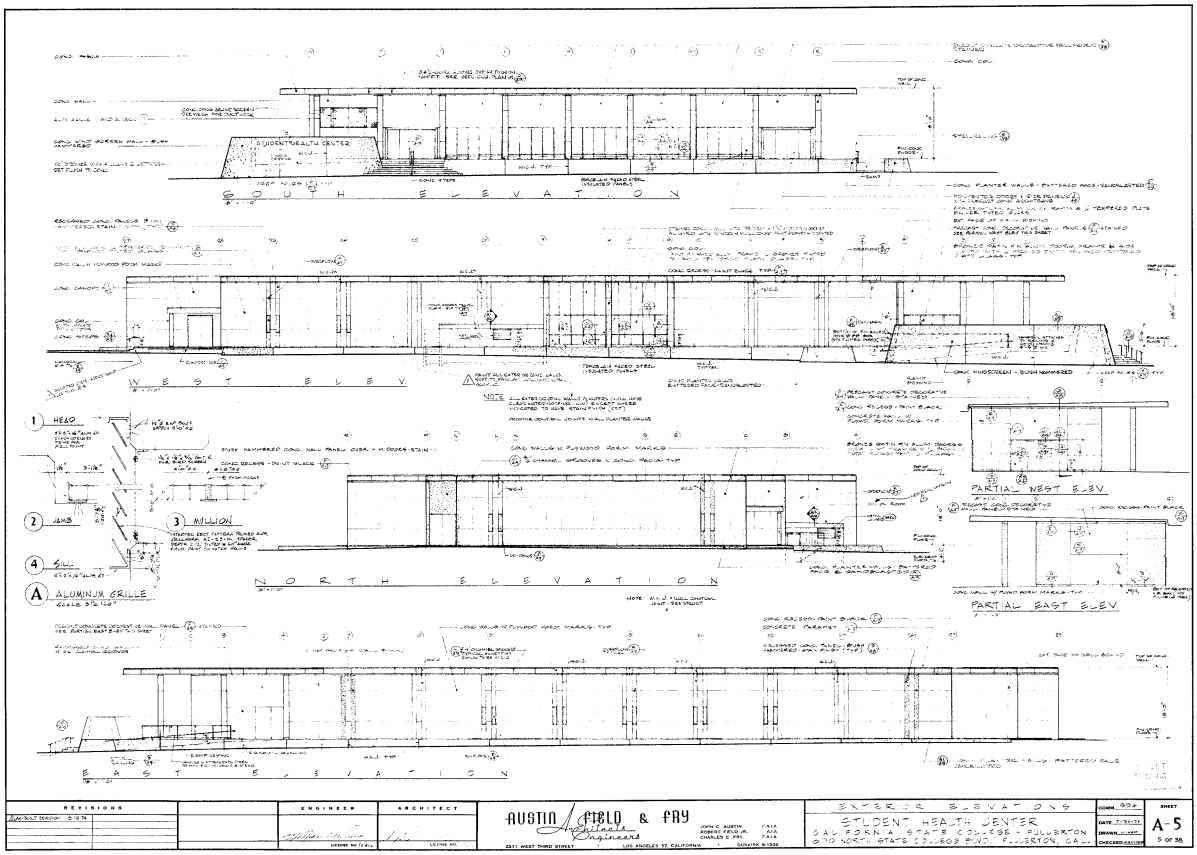
Health Center (Student Health & Counseling Center)

Construction of the health center was awarded in 1972 to Mallcraft, Inc., based in Thousand Oaks. Costing $1.22 million, the Health Center was the first building on campus to be funded from revenue bonds issued by the trustees of the California State University and Colleges (Figure 37).[89] It was completed in 1974.

Although somewhat separated from the original quad, the Health Center continues many of the architectural themes and motifs seen in early building phases of the campus. The building combines

the ideas of New Formalism (with the emphasis on symmetry and a muted classical vocabulary) with those of Mid-Century Modern design (with a lower, more pedestrian-scaled mass and emphasis on the horizontal axis). Directly to the south, the building faces an expansive lawn area with mature trees.

Figure 37 Exterior Elevations, Building Plans for Health Center



Source: California State University, Fullerton, 1971

CSUF and the Civil Rights Movement: The "People versus Ronald Reagan"

Toward the conclusion of CSUF's first decade, the era of civil rights arrived on campus. Throughout the 1960s and 1970s, American universities were often the site of student protests. According to English professor Cyril (Cy) Epstein, who wrote a book on the 1970 protest, CSUF was initially not among these campuses, as the school was "considered by most to be a more 'responsible' campus, if not exemplary… it was certainly located in the heart of Reagan territory."[90]

The initial impetus for the 1970 protest was a speech given by then-Governor Ronald Reagan at the campus in February. During the address, Reagan was heckled by students who, unbeknownst to them, were being recorded by the Fullerton Police Department. Within a week of the event, two of the protestors, Bruce Church and David MacKowiak, were arrested by the police. Alarmed by this, many students objected, asserting that the two students were being penalized for exercising their right to free speech. The two students were also accused of misconduct by CSUF, further heightening tensions.[91] The student body's initial dissent was limited to protests in McCarthy Hall and the President's office.[92]

On March 3, student activists broke into the Judicial Board hearing for Church and MacKowiak, then marched to the campus quad to stage a protest. Administrators called the Fullerton Police to the campus, which enraged students.[93] After police's call for disbandment was ignored, officers turned to more violent methods to disperse the mob. Police used force to attempt to disperse students and faculty, and ultimately arrested seventeen students and two faculty members. According to an information sheet recounting the events, one professor was "clubbed unconscious and brutally hurled head first into the police prisoner van" and two female students "were handcuffed behind their backs, were bleeding at the wrists, and were dragged by their hair across the concrete," while 1,500 students watched and protested the treatment.[94] This violence compelled faculty to plant themselves between the student protesters and police, and the police eventually left the campus.

By mid-April tension again rose with the publication of a 32-page book titled "The People Versus Ronald Reagan." This pictorial history contained numerous photographs from the March 3rd protest as well as pictures of nude students. Profits were intended to fund Church and MacKowiak's legal defense. This book, determined obscene by the district attorney, was but one part of a larger pattern unfolding in the spring of 1970.

Political unrest exploded at CSUF in response to Nixon's declaration of the invasion of Cambodia and the Kent State shootings. Reacting to these events, Reagan shut down all University of California and state colleges for four days. In protest, students occupied the Performing Arts Building. According to historian and CSUF professor Larry de Graaf, "a conservative governor had unwittingly succeeded in transforming CSUF from the pursuits of learning into a center for antiwar activities in Orange County."[95]

The repercussions of the protests were multifold: CSUF established itself as a location for political and social activism. By the end of spring semester 1970, as students returned home for the summer, the school slowly calmed from the wave of riots. A photograph from 1970 shows the protests that wracked the campus. Students with signs and flags, Langsdorf and McCarthy Halls, and a police presence are all visible in the image (Figure 38).

Figure 38 Spring 1970 Student Protests at CSUF

Source: Fullerton Public Library, 1970

Phase 3: 1974 Master Plan, 1974-1975

During the 1970s, one of the principal development projects was creation of an arboretum, as shown on the 1974 Master Plan (Figure 39). As was the 1967 Master Plan, the 1974 Master Plan was designed by the well-known architectural firm of Powell, Morgridge, Richards & Coghlan.

The timing of this Master Plan coincided with Fullerton's growth as a college city, partially because of CSUF. In 1973, the *Los Angeles Times* estimated that 40,000 students attended college in Fullerton; and school officials asserted that "the area surrounding Cal State is rapidly becoming one of the foremost educational centers in Southern California."[96]

Figure 39 1974 Master Plan

Source: California State University, Fullerton, 1974

Titan Hall

One outlier from the Master Plans is Titan Hall, which was constructed in 1974 for the Western State University College of Law. This 54,000-square-foot, four-story building was designed by architectural firm George T. Nowak and Associates of Los Angeles in 1972.[97]

In 1973, the commission earned its designers an award from the American Registered Architects.[98] The college occupied approximately four acres at the time of its opening and was located adjacent to Troy High School and CSUF.

In 2012, Western State University College of Law moved to the California State University, Irvine campus and CSUF purchased the subject building.[99]

Figure 40 View of Titan Hall, Previously Part of Western State University College of Law

Source: Fullerton Public Library, n.d.

Arboretum

Prior to the development of the Arboretum in the 1970s, the northern expanse of CSUF was a largely unoccupied field scattered with citrus trees. After learning that the area was slated to become another parking lot, staff and students had the idea to transform the space into a botanical garden. According to a 1972 newspaper article, the project was led by students who proposed "to turn a dead orange grove…into Orange County's first arboretum, an 'ecological preserve' complete with streams and ponds, greenery and wildlife."[100] This effort on the part of students was successful, and the arboretum was incorporated into the school's master plan in 1972.

The 25-acre swath of natural and manicured land was intended to offer "the university and surrounding communities an oasis of recreational, historical, and educational value" and include 17 acres of contoured arboretum, four acres of organic gardens, and a four-acre experimental plot.[101]

In 1972, an Eastlake Victorian-style residence threatened with demolition in downtown Fullerton was moved to the still-in-progress arboretum. This 1894 residence was originally built by the city's pioneering Dr. George Crook Clark who resided at the residence until the early 20th century. The salvaged house was relocated to serve as the headquarters for the Arboretum. The roof was removed during relocation and subsequently reconstructed to match the original design.

In 1976, the house was renamed the "Heritage House," marking the first stage of the Arboretum's development. A photograph of the arboretum shortly after the house's relocation shows Dr. C. Eugene Jones, botany Instructor (left) and James C. Sharp, who was head of the campus planning committee (right), in front of the Heritage House (Figure 41).[102] Landscaping surrounding the residence was completed by Landscape Architect Myrton Purkiss.[103]

Figure 41 Heritage House Dedication

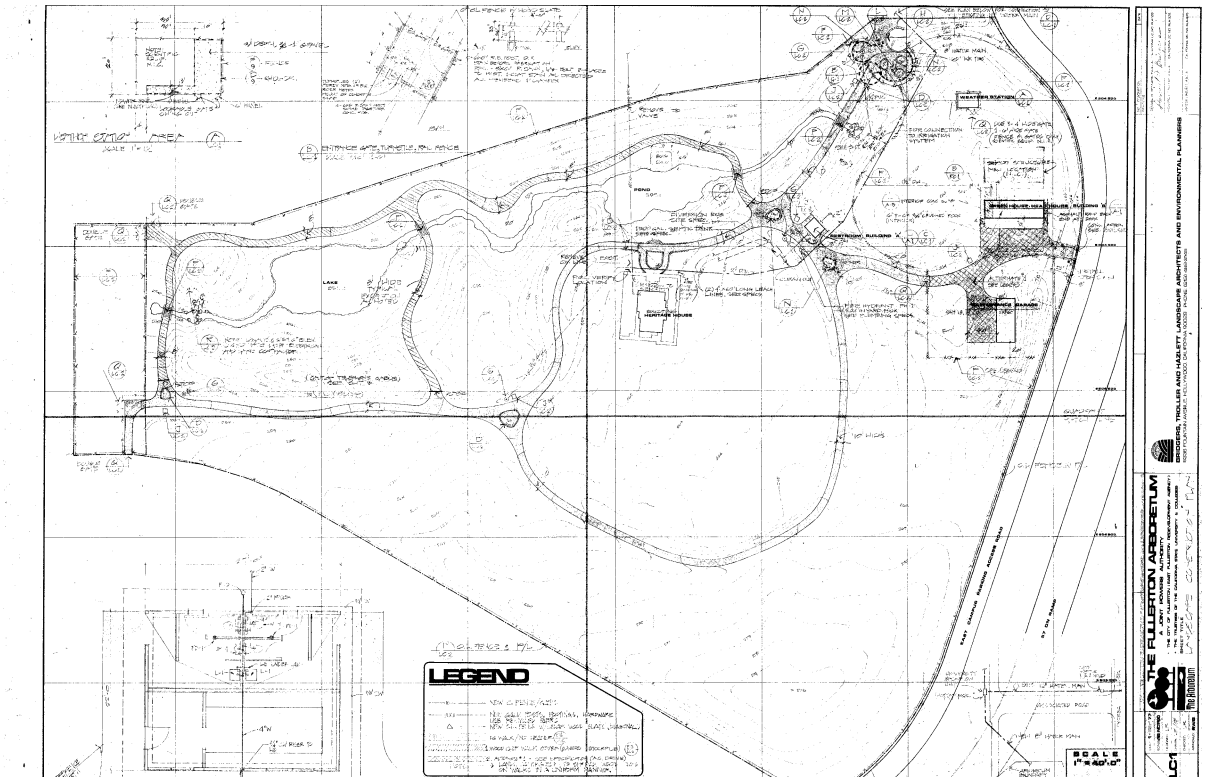
Source: Los Angeles Times, 1976

Originally, plans for the arboretum's larger design were completed by students at Cal Poly Pomona. After the initial planning phase, the City of Fullerton and University trustees hired landscape architecture firm Bridgers, Troller, and Hazlett to complete schematic drawings, and contractors Goodman and Pelogran to construct the arboretum in 1977 (Figure 42). The firm created an organic

network of ambulatory paths that weave between the natural and designed features of the Arboretum, from the Heritage House to the citrus trees on the property.

Samuel Bridgers and Howard Troller had previously worked on the landscaping for the main quad with Ralph Cornell. Jere Hazlett joined the firm shortly after they completed the landscape. After Cornell's death, the firm was again contracted by CSUF for the arboretum's landscaping project. The Arboretum was completed and dedicated in 1979.[104]

Figure 42 Arboretum Landscaping Plan



Source: California State University, Fullerton, 1977

Post-1975 Expansion

While outside of the survey area (which includes buildings/structures, historic districts, and cultural landscapes 45 years of age and older), this section details some of the major initiatives to expand the CSUF campus after 1975.

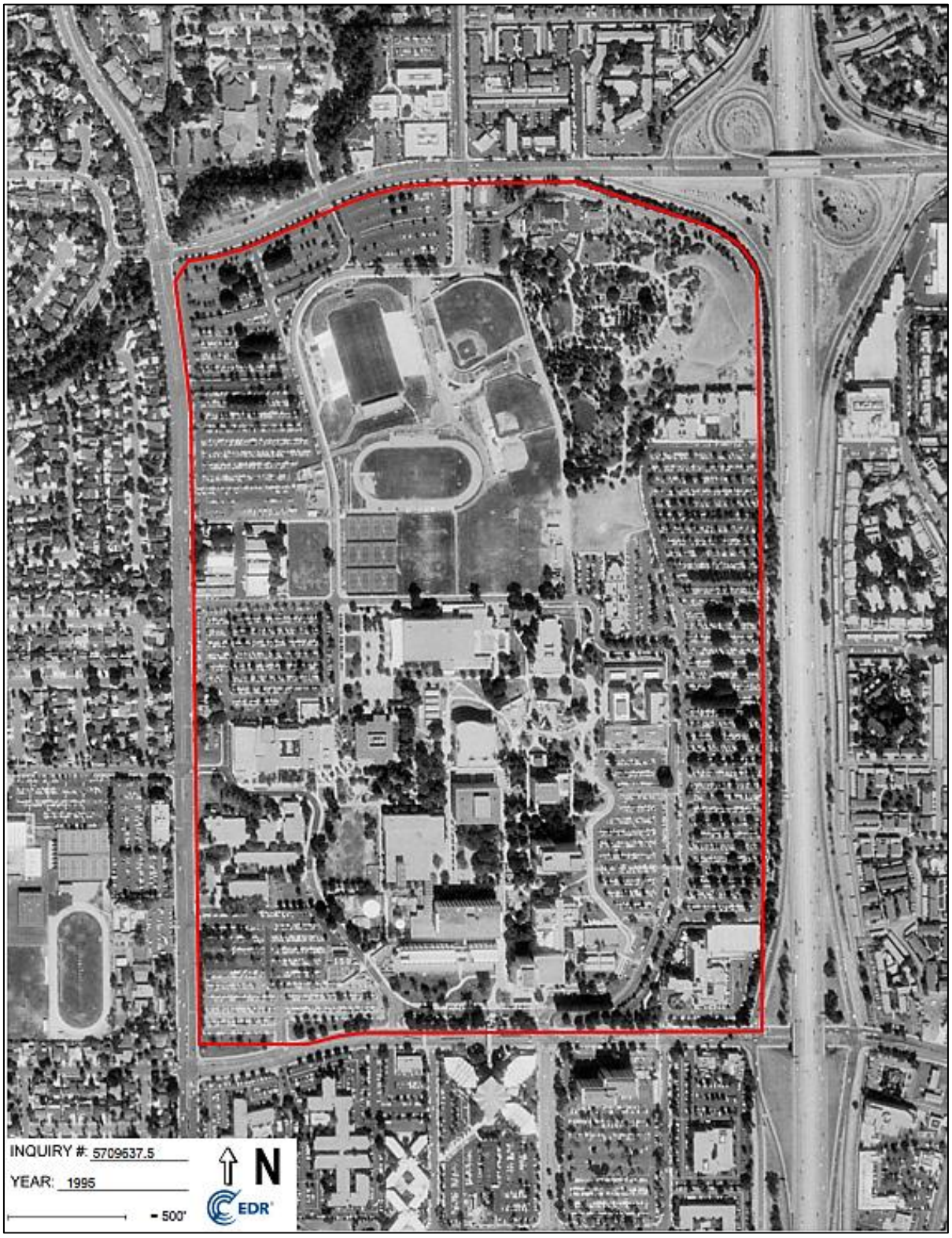
As shown on a 1977 aerial, CSUF's northeastern corner became home to the arboretum, completed in 1979. This area consists of vegetation and winding paths that bisect the various gardens (Figure 43). By the 1980s and 1990s, as the campus expanded, new buildings were constructed primarily on the periphery of the central quad. Housing was constructed in the 1990s along the eastern border of the campus whereas permanent and portable academic buildings essentially "filled in" the periphery of the campus (Figure 44). Parking lots, and later parking structures in the 2000s, were also relegated to the edges of the campus.

In subsequent years, the campus continued to expand and include areas south of Nutwood, west of Stage College, and north of Yorba Linda.

Figure 43 1977 Aerial Photograph

Source: Environmental Data Resources, 2019

Figure 44 1995 Aerial Photograph



Source: Environmental Data Resources, 2019

4 Associated Architectural Styles, Architects, and Design Professionals

4.1 Architectural Styles

New Formalism

Emerging in the mid-1950s, New Formalism represented a return to monumentality, symmetry, and historicism in architectural design. Championed by architects such as Edward Durell Stone, New Formalism was a form of Late Modern architecture that became popular through the 1960s. The style proved particularly popular for larger-scale institutional buildings that were not well suited to the low-slung, post-and-beam vocabulary that characterized Mid-Century Modernism.[105] Aesthetically, New Formalism referenced Classical architecture, but in an abstracted manner. In this way, New Formalism represented a streamlined, Modern version of historical styles and scale.

As numerous architects in Southern California (and beyond) adopted the style, New Formalism became the preferred style for numerous civic, religious, educational, and private institutions including city halls, auditoriums, churches, and banks. Local practitioners who became known for their New Formalist designs include A. Quincy Jones, Philip Johnson, Skidmore Owings & Merrill, Millard Sheets, William Pereira, and Edward Durell Stone.[106,107] Typical character-defining features of the style include:

- Symmetrical plan and façade
- Flat roofline with prominent, overhanging eaves and cornices and broad fascia
- Emphasis on clean geometries and singular volume
- Use of travertine, cast stone, marble and/or concrete
- Smooth wall surfaces
- Large screens of perforated concrete, concrete block or metal panels
- Colonnades, plazas, or elevated podiums; use of full-height columns or pilasters
- Stylized entablatures

At CSUF, many buildings reflect the New Formalist style. These include:

- McCarthy Hall
- Clayes Performing Arts Center
- Titan Gymnasium
- Pollak Library
- Titan Shop/ Book Store
- Humanities and Social Sciences Building
- Langsdorf Hall
- Engineering and Computer Sciences Building Complex
- Titan Hall

Brutalism

Brutalism is a style of architecture characterized by its heavy, block-like forms and use of unfinished concrete. The style was established by British architects Alison and Peter Smithson in the 1950s and derives its name from the French words *béton brut*, or "raw concrete." Brutalism lacks applied ornament, relying for aesthetic effect instead on the interplay of geometric forms and massing.

First introduced in United States in the 1960s, Southern Californian architects that employed the style included William Pereira, A. Quincy Jones, A.C. Martin & Associates, Welton Becket, and Skidmore Owings & Merrill.[108,109] During the style's period of popularity it was most frequently applied to governmental, financial, and educational buildings. The style's embrace of monumental forms and scale made it well-suited for educational facilities during this period.

Brutalism's character-defining features include:

- Exposed poured/cast concrete construction
- Repeating modular elements
- Heavy, block-like volumes
- Emphasis on monumental scale and massing
- Windows as voids
- Emphasis on base/platform of building

Although most of the buildings at CSUF are designed in the New Formalist style of architecture, the Titan Shop/Book Store also shares traits with Brutalism.

Mid-Century Modernism

The broad category known as Mid-Century Modernism includes a range of styles and approaches, from the machine-age aesthetic of the International Style to the organic, regionally inflected modernism of Frank Lloyd Wright. The Modern movement in architecture represented a break from period revivalism and an approach that emphasized style over function. Although the origins were in the 1920s, Mid-Century Modernism emerged in earnest during the building boom of the post-World War II era. More of an architectural vocabulary than a style, the various strains of Mid-Century Modernism became the norm throughout the United States, with Southern California being a well-known center for regional modernism. By the 1950s, numerous architects had become recognized practitioners of the style; they included Buff, Straub and Hensman, Smith & Williams, Thornton Ladd, Thornton Abell, Gregory Ain, Richard Neutra, Welton Becket, A. Quincy Jones, John Lautner, and Raphael Soriano, among many others.

Mid-Century Modernism emphasized functionality and workmanship, with high-quality materials simply treated, as well as indoor-outdoor integration through the use of adjacent patios, low door thresholds, generous expanses of full-height windows. Post-and-beam construction, often realized in wood or, less often in Southern California, steel, is a typical component of Mid-Century Modernism. These buildings often have wide, cantilevered eaves, balanced on contrastingly thin spider-leg or post supports.[110] When applied to educational facilities, Mid-Century Modern design often featured sheltered arcades, which served to move hallways outdoors and unify the buildings of the campus.

Mid-Century Modernism's character-defining features include:

- Low, modular design

- Asymmetrical but balanced design composition, with simple, geometric volumes
- Emphasis on functionality and plan
- Exposed structural supports and materials
- Ample fenestration; natural light
- Open floor plans
- Post-and-beam construction

The Visual Arts Building Complex is designed in the Mid-Century Modern style of architecture at CSUF.

4.2 Architects

Risley, Gould & Van Heuklyn

The firm of Risley, Gould & Van Heuklyn was responsible for the design of the Pollak Library at CSUF. Originally Risley & Gould, the firm was founded by Stanley Gould and Winchton Risley in 1948. Van Heuklyn joined the firm as a draftsman in 1952 and became an associate in 1954. The firm changed its name to Risley, Gould & Van Heuklyn in 1962.[111]

Risley, Gould & Van Heuklyn was very active in Southern California and specialized in campus design for primary and secondary schools as well as colleges and universities. Perhaps the most notable comprehensive project that the firm completed was for the University of California, San Diego (UCSD) campus. At UCSD, Risley, Gould & Van Heuklyn designed numerous educational facilities including the Scripps Institution of Oceanography; the Center for Coastal Studies; and the Bonner, Mayer, and Urey Halls. Additionally, the firm completed the school's Master Plan and Central Utilities Plan.[112] In Los Angeles County, the firm designed the University of California, Los Angeles (UCLA) School of Law in Westwood (1952), Clark High School in Glendale (1955) and the Arthur Amos Noyes Laboratory of Chemical Physics at the California School of Technology in Pasadena (1967).[113] The firm was also active outside of California and completed the campus master plan and building designs for The Principia in St. Louis, Missouri.[114]

Winchton L. Risley

Winchton L. Risley was born in 1887 in Delphos, Ohio and studied at Miami University in Oxford, Ohio and at Columbia University in New York. He served in the U.S. Navy from 1917 to 1918 during World War I prior to working for Carleton Monroe Winslow. Risley opened his own practice circa 1923 and received 6 honorary awards from the AIA as well as a House Beautiful Prize for the Wheeler Residence (1928) and an honorary mention for the Pan American Exposition of Arts (1928). In 1931 he was awarded bronze and gold medals by President Herbert Hoover.[115] In 1943, Risley formed Risely & Gould and was named a Fellow of the American Institute of Architects (AIA). While in private practice, Risley also taught architecture at the University of Southern California (USC) and UCLA. From 1949 to 1953, he served as a consulting architect for the Atomic Energy Commission in Los Alamos.[116]

Stanley R. Gould

Stanley R. Gould was born in 1906 in Portland Oregon. After receiving a degree in architecture, Gould worked for architecture firms Parkinson & Parkinson (1928-1934), A. C. Zimmerman (1935-36), and Reginal Johnson (1937-1938).[117] Gould was named manager of the architectural

department for the 10th Olympiad, which was held in Los Angeles in 1932. In this capacity he oversaw and coordinated construction of all Olympic facilities in the city. A decade later, in 1943, he formed Risley & Gould.[118]

Howard B. Van Heuklyn

A Los Angeles native and graduate of the USC College of Architecture (1947), Howard B. Van Heuklyn joined the firm of Risley & Gould in 1952.[119] Van Heuklyn was considered a specialist in Chinese architecture, partially due to his position as a member of the 14th Air Force in China during World War II.[120] Van Heuklyn received an AIA Honor Award in 1960 for the Magnavox Corporation in Torrance and is credited with the 1965 Glendale Self Realization Fellowship.[121]

William E. Blurock & Partners

William E. Blurock & Partners, in partnership with Balch, Hutchason & Perkins, was responsible for the design of the Administration Building at CSUF.[122] Born in Los Angeles, William Blurock completed a bachelor's degree in architecture at USC in 1947. For a short while Blurock designed residences in Orange County before he partnered with other local architects to form Pleger, Blurock, Hougan & Ellerbroek in 1953. In 1960, Blurock broke off to establish his own firm in Newport Beach. In 1982, the firm changed its name to The Blurock Partnership and was active until 1994.[123]

Blurock specialized in educational institutions and was responsible for the planning and design of buildings on 32 California college campuses. Blurock also completed numerous Orange County civic projects including the Orange County Performing Arts Center (now known as the Segerstrom Center for the Arts) and the City of Santa Ana Civic Center Mall.

Blurock was very active in the architecture community and served on the California State Board of Architectural Examiners for 13 years. In 1968, he was elected Fellow of the AIA for outstanding contributions to the design and science of construction. USC acknowledged his work in 1993 with a Distinguished Alumnus award which lauded him as "an Orange County pioneer whose prolific work has contributed to the positive character of the community and whose warmth, vision and professionalism have inspired a generation of architects."[124] He received a lifetime achievement award by the AIA in 2009.[125]

Balch, Hutchason & Perkins

Balch, Hutchason & Perkins, in partnership with William E. Blurock & Partners, was responsible for the design of the Administration Building at CSUF. [126] Balch, Hutchason & Perkins, consisting of William G. Balch, Willis K. Hutchason, and John L. Perkins, was a Los Angeles firm specializing in school architecture. The firm completed designs for William Howard Taft High School (1960), Gladstone High School (1964), Birmingham High School (1964) and Mission Viejo High School (1967).[127]

William G. Balch

William G. Balch was born in Pasadena circa 1901 and studied architecture at USC, graduating in 1928. Balch served as a draftsman for his brother Clifford A. Balch from 1922-1928.[128] After graduating from school, he worked as a partner of William Glenn Balch & Louis L. Bryan (1946 to 1953) and a partner of Blach, Hutchason & Perkins (1953 to 1969). Balch served as the associate architect for the design of Ventura College in 1955.[129]

Willis K. Hutchason

Willis K. Hutchason was born on January 8th, 1920 in Los Angeles. He studied architecture at UC Berkeley from 1938 to 1940 and at USC from 1940-1941. In 1970, his principal works were listed as William Howard Taft High School (1960), Danbury Elementary School (1968), and Griswold's Inn (1969) among others. He received an architectural award of excellence for the California Credit Union League Headquarters Building in 1964.[130]

John L. Perkins

John L. Perkins was born in Sioux Falls, South Dakota in 1913 and received a degree in architecture from the University of Minneapolis in 1941. Perkins worked as a draftsman and designer for several firms in the 1930s and 1940s, including Perkins & McWayne (1934-1942); Giffles & Vallet (1942-1943); and Metcalf, Hamilton & Kansas City Cos. (1943-1945). He joined the firm Balch, Hutchason & Perkins in 1945.[131]

Thornton Abell

Thornton Abell was responsible for the design of the Humanities and Social Sciences Building and the Visual Arts Complex at CSUF. Thornton Abell was born in Michigan in 1906 where he attended college at the University of Michigan (1924-1925). For two years, Abell worked as a designer for Clare C. Hosmer in Sarasota, Florida and for Joseph J. Kucera in Pasadena before continuing his education. Abell attended UC Berkeley (1927-1928) before transferring to USC, where he received a degree in architecture (1931). Abell was said to have moved to Southern California in order to garden year round; he was an avid iris hybridizer. [132] After graduating, Abell served as a designer and chief draftsman for Super, Marsh, Smith & Powell in Los Angeles from 1930 until 1942. In 1944, Abell opened his own firm, where he principally designed Modern-style residences.[133]

Throughout his career, Abell was most widely recognized for his residential commissions.[134] One of his best-known residential designs was Case Study House No. 7 in San Gabriel (Figure 38). Abell, alongside Eero Saarinen, Whitney Smith, and Ralph Rapson was listed as one of the younger architects who participated in the Case Study project. As Esther McCoy noted, Abell's

> Case Study of 1948 in San Gabriel is a composition of Barcelona pavilion planes of wood (high louvred fence screening the bedroom patio facing the street) and of concrete block. In scale if not in area, it was a first study for a 1954 small low building which houses his office.[135]

Abell also designed his own International-style residence in Santa Monica Canyon (1937). He completed another model house for the Southern California Construction Industry and Home Show in 1952. A 1955 article identifies the architect's "aim in architecture [was] to arrive at a design so simple that it appears both spontaneous and inevitable." Abell maintained that a smooth, plain wall was not a curse, but that "the quiet wall lends serenity to a room."[136]

Recognized as a master architect in Los Angeles, Abell completed numerous other residences across the city. According to Historic Places LA, other historically significant projects included the Gutav R. Rich House, Siskin House, Haines House No. 2, and Leslie House. Thornton is known for his low, streamlined forms and use of simple, high-quality materials.[137] Abell received numerous awards for his designs over the years. The AIA honored him with awards in 1951, for the Beck House; 1954 for the Abell Office Building and Model House; and 1959 for the 1956-built Adelman House in Beverly Hills.

Abell joined the AIA in 1944, was named a Fellow in 1966, and was elected president of the Southern California chapter in 1978.[138]

Marsh, Smith & Powell

Although Marsh, Smith, & Powell did not complete work at CSUF, David D. Smith and Herbert James Powell, two of the architects associated with the firm, participated in the school's Master Plans. Their early work at this firm therefore influenced the designs completed by Smith, Powell & Morgridge and Powell, Morgridge, Richards & Coghlan at CSUF.

Marsh, Smith & Powell was formed in 1928 by Norman F. Marsh, David D. Smith, and Herbert James Powell, and quickly became a key player in the evolution of school buildings from the 1920s through the 1950s. As school design evolved in the 1920s and 1930s, the firm helped define the textbook indoor-outdoor campus that came to characterize Southern Californian schools.[139] The firm played a seminal role in Southern California's shift towards more "functional, child-centered, open-air schools."[140] Principal commissions included El Camino College (1950), the Life Science Building at UCLA (1952), and San Marino High School (1954) among numerous others.[141] The firm also served as the University Architect at USC, where they hired USC graduates such as Thornton M. Abell to work on the campus. Abell, another architect associated with CSUF, worked for the firm from 1930 to 1942.[142] USC graduate and master architect Whitney R. Smith worked for the firm as a draftsman in 1939. Marsh, Smith & Powell received several awards from the AIA for their projects, including an Honorary Certificate for Hollywood High School (1939), and 1st Honorary Awards for Corona del Mar School (1949) and Santa Monica City College (1954). [143]

Howard Henry Morgridge joined the firm as a designer from 1943 to 1947 and as a partner at from 1948 to 1954. In 1955, Norman F. Marsh passed away. The firm of Smith, Powell & Morgridge was formed as a successor firm in 1955 after Marsh's death.

Smith, Powell & Morgridge

The firm of Smith, Powell & Morgridge was responsible for the 1962 Master Plan at CSUF. The firm was formed in 1955 after the death of Marsh, as a successor firm to Marsh, Smith & Powell. That year, the remaining three partners at the firm rebranded the firm accordingly. The firm held this name from 1955 to 1966. Located out of Los Angeles, the firm of Smith, Powell & Morgridge was heavily active in Fullerton in the postwar years. In 1956, it designed the Fern Drive School in Fullerton, a postwar school that adopted residential forms and details and in 1962, it completed the New Formalist style Fullerton City Hall. [144,145] During this period, Smith, Powell & Morgridge also expanded to complete municipal jobs, designing the Buena Park City Hall in 1958 and the Child Guidance Center in Pasadena in 1960.[146]

Powell, Morgridge, Richards & Coghlan

Powell, Morgridge, Richards & Coghlan designed the 1967 and 1974 Master Plans of CSUF. The firm was formed in 1966 as a successor firm to Smith, Powell & Morgridge by Herbert James Powell, Henry Morgridge, Albert Anton Richards, and Rapier R. Coghlan. That year they designed the library at Chapman College in Orange.[147]

David D. Smith

David D. Smith was born in Kentucky before moving to Los Angeles at an unknown date. In 1924, Smith completed a few projects in the area including the Washington Martha School and the Venice Athletic Club, both in 1924.[148] He joined the firm of Marsh, Smith & Powell in 1928. Smith was

involved with the design of the William Mead Homes, a public housing development completed in 1942.[149]

Herbert James Powell

James Powell was born in Chicago in 1898. He pursued a bachelor's degree at the University of Redlands in 1920 and secured a master's degree from the Harvard School of Design at Harvard University in 1924, where he received an AIA scholastic medal. After completing his studies, Powell was awarded a Sheldon Travel Fellowship. Once again established in the United States, Powell took up work as a draftsman for a number of firms, including McKim, Mead & White (1925), Thomas H. Ellett (1925); and Marston, Van Pelt & Mayberry (1927). In this last capacity he assisted with the design of Chapel University in Redlands (1927).[150]

In 1928, Powell worked as a designer for Norman F. before he was brought on as a partner of Marsh, Smith & Powell until 1955. Powell served on the California State Board of Architectural Examiners from 1944 to 1951.[151] He passed away in 1996 at the age of 97.[152]

Henry Morgridge

Henry Morgridge was born in Pasadena in 1919 and worked for short periods as a designer for Van pelt & Lind in 1937 and W. A. Bechtel Co, in 1942.[153] He received a bachelor's degree from USC in 1942. Shortly after graduating, Morgridge joined the army during World War II, where he was stationed in the Philippines and Japan from 1942 until 1944. Upon his return to Los Angeles, Morgridge became partner at Marsh, Smith and Powell. He was recognized as a Fellow of the AIA in 1966 for his service to the profession.[154] Morgridge passed away in 2001.

Albert A. Richards and Redmond R. Coghlan

No additional information was available on Albert A. Richards and Redmond R. Coghland besides their involvement with the firm mentioned above.

George T. Nowak

George T. Nowak designed Titan Hall in 1974 while it was associated with the Western State University College of Law. Besides designing several movie theaters in Los Angeles County, no additional information regarding Nowak's work was available.[155,156]

4.3 Landscape Architects

Cornell, Bridgers and Troller/ Cornell, Bridgers, Troller and Hazlett/Bridgers, Troller and Hazlett

Cornell, Bridgers and Troller were responsible for some of the early landscape design of the CSUF center quad as well as the Engineering and Computer Science Building Complex. The latter iteration of the firm as Bridgers, Troller and Hazlett completed the landscape design for the Arboretum.

Following the firm's establishment in 1953, they built a prolific practice in landscape design throughout the region. Comprised of Ralph Cornell, Howard Troller, and Samuel Bridgers, the firm was located in Los Angeles and completed numerous municipal projects in the city. Notable projects included the City Hall East Mall, the campus for the Department of Water and Power, the Music Center, and the Civic Center Mall (Grand Park). Large-scale landscape projects included the Elysian Park Master Plan, Rose Hills Memorial Park, and the 4,000-acre Valencia at Newhall Ranch. The firm also completed work outside of California including the landscapes of the Ford Motor Company's General Office Building in Dearborn, Michigan. In 1969, Jere Hazlett joined the firm which consequently became Cornell, Bridgers, Troller and Hazlett. After Cornell's death in 1972, Bridgers, became senior partner. Bridgers, Troller and Hazlett worked together until 1978 when they formed individual firms.[157]

Ralph Cornell

Ralph Cornell, born in Nebraska in 1890, relocated to California in 1908. Cornell attended Pomona College where he graduated in 1914 before earning a master's degree in Landscape Architecture from Harvard University in 1917. Cornell returned to Los Angeles County, where he opened one of the first landscape architecture practices in Southern California. Cornell was known for championing "design restraint, thoughtful indigenous plantings, and preservation of the native landscape as a cultural necessity for posterity."[158] According to the Cultural Landscape Foundation, "Ralph Cornell was the single most influential landscape architect to shape Los Angeles… he is arguably the Olmsted of Los Angeles."[159] Cornell was known for his master planning of Pomona College, UCLA, and the University of Hawaii. He completed projects for Torrey Pines Park in San Diego, La Brea Tar Pits, Oak Park Cemetery, and Beverly Gardens.[160] He also completed landscaping for the now-demolished Parker Center in Los Angeles (**Error! Reference source not found.**).

Samuel Bridgers

Samuel Bridgers was born in 1920 in Louisiana before moving to Southern California in 1933. Bridgers attended UC Berkeley where he studied landscape architecture, graduating in 1950. In 1953, Bridgers joined the firm of Ralph Cornell. He was promoted to partner in 1955. Eventually, Bridgers left to establish his own practice after Ralph Cornell's death.[161]

Howard Troller

Howard Troller was born in Glendale, California in 1923 and completed his undergraduate and graduate degrees in landscape architecture at UC Berkeley. While residing in San Francisco, Troller worked as a draftsman at the offices of Eckbo, Royston and Williams before returning to Los Angeles in 1950. Shortly after his move, Troller joined the office of Ralph Cornell as principal designer; he and Bill Bridgers were promoted to partners in 1955. Troller eventually opened his own firm in 1978. In 1992, he was elected a Fellow of the American Society of Landscape Architects.[162]

Myrton Purkiss

Myrton Purkiss was responsible for landscaping immediately surrounding the Heritage House in the Arboretum. He was born in Canada and migrated to the United States at age twelve. Purkiss attended USC and the Chouinard Art Institute in Los Angeles where he studied ceramics. During World War II, Purkiss was drafted into military service where he worked as a cartographer. He returned to California in 1941 and settled in Fullerton. He transitioned careers in the mid-1950s, when he began his practice as a landscape architect.[163] He opened a firm, Purkiss-Rose Associates, and designed landscapes for public and private spaces.[164]

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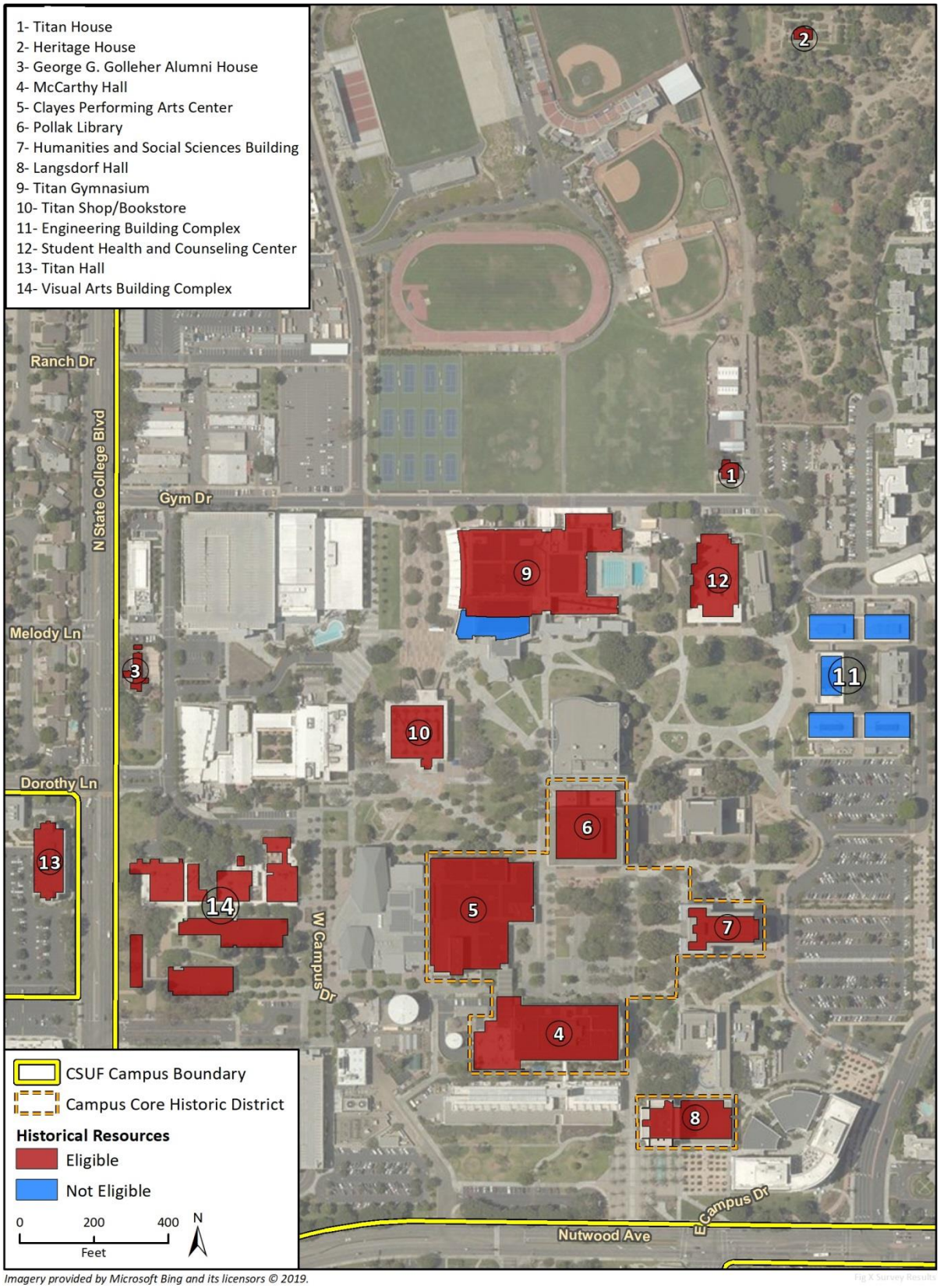
5 Evaluation Results

This survey included permanent CSUF properties aged 45 years and older. A total of **15 properties** fall into this category. Based on research and survey, a **total of 13 properties** appear eligible for the NRHP and/or CRHR. The following evaluation results describe the **criteria conferring eligibility.** Where substantial evidence supports a finding of eligibility under a given criteria, those criteria are described. Table 2 summarizes the survey results. Figure 45 presents a map depicting survey results. The following narrative presents a survey summary for each property.

Table 2 Evaluation Results, CSUF Permanent Facilities Constructed through 1975

	Current Building Name	Historic Building Name	Year	Historical Resource?	Criteria	Contributor to Historic District?
1	Titan House	Henry T. Hetebrink House	1886	Yes	A/1, C/3	No
2	Heritage House	Dr. George C. Clark House and Office	1896	Yes	A/1, C/3	No
3	George G. Golleher Alumni House	Mahr House	1931	Yes	A/1, C/3	No
4	McCarthy Hall	Letters and Science Building	1963	Yes	A/1; C/3	Yes (Campus Core Historic District)
5	Clayes Performing Arts Center	Music-Speech-Drama Building	1965	Yes	A/1; C/3	Yes (Campus Core Historic District)
6	Titan Gymnasium/ Health Science Bldg.	Physical Education Gymnasium Building	1965-1967	Yes (Main Gym only)	1; 3 (CRHR only)	No
7	Pollak Library	Library	1966	Yes	A/1; C/3	Yes (Campus Core Historic District)
8	Book Store/ Titan Shops	Cafeteria-Commons Building	1967	Yes	A/1; C/3	No
9	Humanities & Social Sciences Building	Same	1969	Yes	A/1; C/3	Yes (Campus Core Historic District)
10	Visual Arts Complex (6 buildings)	Same	1969	Yes	A/1; C/3	No
11	Langsdorf Hall	Administration Building	1970	Yes	A/1; C/3	Yes (Campus Core Historic District)
12	Engineering & Comp Science Complex (5 buildings)	Engineering Building	1971	No	N/A	N/A
13	Student Health & Counseling Center	Health Center	1974	Yes	1; 3 (CRHR only)	No
14	Titan Hall	Western State University College of Law	1974	Yes	1; 3 (CRHR only)	No
15	Arboretum	Same	1972-1979	No	N/A	N/A

Figure 45 Historic Resources Survey Results, CSUF Campus



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5.1 Summary of Evaluation Results

As noted previously, all properties 45 years of age and older were surveyed and evaluated against the NRHP and CRHR criteria. All criteria were applied in the survey, which considered buildings, structures, objects, as well as potential historic districts and cultural landscapes. Among the 15 properties, 13 properties met the criteria for eligibility as described below.

The historic context section of this report described a number of sociocultural events on campus over the decades. Those contexts were also applied in these evaluations—however, based on available literature, the association with those events was not deemed to rise to the level required for eligibility under the applicable criteria.

Due to various in-fill projects, which have altered the design and cohesiveness of the original site plan, its landscape architecture, and circulation corridors, the CSUF campus does not appear to meet the eligibility as a cultural landscape. The most intact collection of buildings/site design features on campus, the Campus Core Historic District, appears eligible as a historic district. The district and its contributing properties are described below. Subsequent sections describe the applicable criteria, periods of significance, and reasons statements/descriptions of each eligible resource.

#1: CSUF Campus Core Historic District

Criteria A/1 eligibility: The CSUF Campus Core Historic District is eligible as an intact, cohesive collection of institutional properties built during CSUF's founding years. The historic district exemplifies institutional/educational facility expansion in Fullerton during the City's postwar transformation.

Period of significance: 1963 – 1970

Criteria C/3 eligibility: The CSUF Campus Core Historic District is also eligible as a distinctive, outstanding example of the New Formalist/Late Modern architectural style, applied to institutional properties/educational facilities. The district represents one of the most expansive and intact collections of New Formalist/Late Modern architecture in Fullerton.

Period of Significance: 1963 – 1970

Historic District Description: The Campus Core Historic District is a cohesive, distinctive grouping of the earliest buildings designed for CSUF during its most active construction phase. The district exemplifies the rapid, widespread postwar expansion of Fullerton, both in terms of population growth and new construction (Criteria A/1).

In addition, with its unified site plan, distinctive architectural style, associated landscaping and hardscaping features, the Campus Core Historic District represents one of Fullerton's most extensive and intact collections of New Formalist/Late Modern architecture (Criteria C/3).

Primary contributors to the historic district are: (1) McCarthy Hall; (2) Clayes Performing Arts Center; (3) Pollak Library; (4) Humanities and Social Sciences Building. The secondary contributor to the historic district, based on its location, is Langsdorf Hall. The five buildings that contribute to the historic district are stylistically unified with varied expressions of a New Formalist/Late Modern architectural style and an emphasis on monumentality; the use of smooth white and natural-toned concrete exteriors; and repeating hexagonal motifs. Character-defining features for each

contributing building are described in more detail below. The buildings exhibit a unified site design, connected by flanking circulation corridors, landscaping/hardscaping features, and a shared central quad; these are also contributing components of the historic district.

A panoramic photograph of the quad illustrates the unified site design of the district (Figure 46). In addition to a cohesive design lexicon, the buildings maintain a compatible spatial relationship, due to the presence of various landscape and hardscape features in the central quad (Figure 47; Figure 48):

- Tapered, concrete retaining walls
- Concrete benches with sloped, contoured legs
- Concrete planters; mature trees

Figure 46 Panoramic Views of Campus Core Historic District

Source: Rincon Consultants, 2019

Figure 47 Examples of Hardscaping and Mature Trees in Quad

Source: Rincon Consultants, 2019

Figure 48 Typical Example of Hardscaping in Campus Core Quad

Source: Rincon Consultants, 2019

#2: McCarthy Hall

Historic Name / Current Name:	**Letters and Science Building / McCarthy Hall (1963)**
Eligible Historical Resource?	**Yes; contributor to Campus Core Historic District**
Applicable Criteria:	**A/1; C/3**
Period of Significance:	**1963 – 1970 (historic district)**

Character-Defining Features:

- Site plan/design, with mature landscaping and siting in relation to other buildings
- Axial, north-south circulation corridor/sight line flanking building
- New Formalist/Late Modern architectural style; symmetrical design composition; smooth white concrete cladding
- Six-story monumental massing; flat roof
- Projecting walkways with low metal fences on lower stories; screen enclosures on top stories
- Walkways lined with three full-height concrete screens with honeycomb-patterned perforations
- Thirteen shallow, full-height projecting arches spanning north and south elevations; windows recessed within full-height arches
- Precast textured concrete panels and aluminum lettering along southern elevation
- North elevation entrance with central roll-up grille accessed by two low-slope concrete ramps

Overview of Alterations:

- Connecting second-story walkway between southern and northern elevations

Reasons Statement:

Criteria A/1 eligibility: McCarthy Hall is a contributor to the Campus Core Historic District, eligible under NRHP/CRHR Criteria A/1 as an intact, cohesive collection of institutional properties built during CSUF's founding years. The district exemplifies a significant pattern of development: institutional/educational facility expansion during the City's postwar boom and transformation.

Criteria C/3 eligibility: McCarthy Hall is a contributor to the Campus Core Historic District, eligible for NRHP/CRHR listing under Criteria C/3 for its distinctive New Formalist/Late Modern architectural style. The CSUF Campus Core Historic District, along with its associated landscaping and hardscaping

features, represents one of Fullerton's most extensive and intact collections of New Formalist/Late Modern architecture.

#3: Clayes Performing Arts Center

Historic Name / Current Name:	**Music-Speech-Drama Bldg/Clayes Performing Arts Ctr (1965)**
Eligible Historical Resource?	**Yes; contributor to Campus Core Historic District**
Applicable Criteria:	**A/1; C/3**
Period of Significance:	**1963 – 1970 (historic district)**

Character-Defining Features:

- Site plan/design, with mature landscaping and siting in relation to other three buildings in quad
- Axial, north-south circulation corridor/sight line flanking building
- Mostly two- to three-story massing
- Monumental mass/volume and repeating geometric hexagonal pattern
- New Formalist/Late Modern architectural style
- Symmetrical design composition; smooth concrete exterior; capped with flat roof
- Pre-cast concrete screen panel perforated with elongated hexagonal voids to form a complex honeycomb pattern.
- Concrete panels along north and east elevations
- Ribbons of fixed aluminum windows
- Covered walkway with folded plate roof

Overview of Alterations:

- Addition on west elevation in 2000
- Solar panel installation on roof

Reasons Statement:

Criteria A/1 eligibility: Clayes Performing Arts Center is a contributor to the Campus Core Historic District, eligible under NRHP/CRHR Criteria A/1 as an intact, cohesive collection of institutional properties built during CSUF's founding years. The district exemplifies a significant pattern of development: institutional/educational facility expansion during the City's postwar boom and transformation.

Criteria C/3 eligibility: Clayes Performing Arts Center is a contributor to the Campus Core Historic District, eligible for NRHP/CRHR listing under Criteria C/3 for its distinctive New Formalist/Late Modern architectural style. The CSUF Campus Core Historic District, along with its associated landscaping and hardscaping features, represents one of Fullerton's most extensive and intact collections of New Formalist/Late Modern architecture.

#4: Pollak Library

Historic Name / Current Name: **Library / Pollak Library (1966)**

Eligible Historical Resource? **Yes; contributor to Campus Core Historic District**

Applicable Criteria: **A/1; C/3**

Period of Significance: **1963 – 1970 (historic district)**

Character-Defining Features:

- Site plan/design, with mature landscaping and unified spatial relationships
- Axial, north-south circulation corridor/sight line flanking building
- Five-story massing; box-like shape supported by concrete, beveled golf tee-shaped legs
- New Formalist/Late Modern architectural style
- Symmetrical design composition
- Flat roof with minimal eave overhang
- Smooth natural-colored concrete base
- Projecting, honeycomb-patterned concrete screen applied to main elevations
- Wide, low entrance terrace facing quad

Overview of Alterations:

- Addition on north elevation circa 2003
- Removed material on west/south elevations

Reasons Statement:

Criteria A/1 eligibility: The Pollak Library is a contributor to the Campus Core Historic District, eligible under NRHP/CRHR Criteria A/1 as an intact, cohesive collection of institutional properties built during CSUF's founding years. The district exemplifies a significant pattern of development: institutional/educational facility expansion during the City's postwar boom and transformation.

Criteria C/3 eligibility: The Pollak Library is a contributor to the Campus Core Historic District, eligible for NRHP/CRHR listing under Criteria C/3 for its distinctive New Formalist/Late Modern architectural style. The CSUF Campus Core Historic District, along with its associated landscaping

and hardscaping features, represents one of Fullerton's most extensive and intact collections of New Formalist/Late Modern architecture.

#5: Humanities and Social Sciences Building

Historic Name / Current Name:	**Humanities and Social Sciences Building (1969)**
Eligible Historical Resource?	**Yes; contributor to Campus Core Historic District**
Applicable Criteria:	**A/1; C/3**
Period of Significance:	**1963 – 1970 (historic district)**

Character-Defining Features:

- Site plan/design, with mature landscaping and siting in relation to other three buildings in quad
- Axial, north-south circulation corridor/sight line flanking building
- Mass/volume; seven stories supported by recessed beveled golf tee-shaped legs
- New Formalist/Late Modern architectural style
- Symmetrical design composition
- Flat roof
- Exteriors of smooth natural-colored concrete and featuring a repeating hexagonal pattern
- Elongated vertical bands on west elevation with evenly placed hexagonal medallions creates screen

Overview of Alterations:

- Industrial doors appear nonoriginal

Reasons Statement:

Criteria A/1 eligibility: The Humanities and Social Sciences Building is a contributor to the Campus Core Historic District, eligible under NRHP/CRHR Criteria A/1 as an intact, cohesive collection of institutional properties built during CSUF's founding years. The district exemplifies a significant pattern of development: institutional/educational facility expansion during the City's postwar boom and transformation.

Criteria C/3 eligibility: The Humanities and Social Sciences Building is a contributor to the Campus Core Historic District, eligible for NRHP/CRHR listing under Criteria C/3 for its distinctive New Formalist/Late Modern architectural style. The CSUF Campus Core Historic District, along with its associated landscaping and hardscaping features, represents one of Fullerton's most extensive and intact collections of New Formalist/Late Modern architecture.

#6: Langsdorf Hall

Historic Name / Current Name:	**Administration Building / Langsdorf Hall (1970)**
Eligible Historical Resource?	**Yes; contributor to Campus Core Historic District**
Applicable Criteria:	**A/1; C/3**
Period of Significance:	**1963 – 1970 (historic district)**

Character-Defining Features:

- Unified site plan/design, with mature landscaping and connecting corridors
- Situated behind central fountain
- Nine-story central cross-shaped body with three-story eastern wing supported by concrete, beveled golf tee-shaped legs; columns form a sheltered arcade
- New Formalist/Late Modern architectural style
- Symmetrical design composition; flat roof
- Exteriors of smooth natural-colored concrete and featuring central repeating hexagonal patterns on each elevation; cells frame long, narrow windows
- South elevation features deeply recessed two-story entrance with curtain wall
- Concrete terrace on north elevation; diagonal U-shaped staircases

Overview of Alterations:

- Windows and doors along north elevation of wing appear to be nonoriginal

Reasons Statement:

Criteria A/1 eligibility: Langsdorf Hall is a contributor to the Campus Core Historic District, eligible under NRHP/CRHR Criteria A/1 as an intact, cohesive collection of institutional properties built during CSUF's founding years. The district exemplifies a significant pattern of development: institutional/educational facility expansion during the City's postwar boom and transformation.

Criteria C/3 eligibility: Langsdorf Hall is a contributor to the Campus Core Historic District, eligible for NRHP/CRHR listing under Criteria C/3 for its distinctive New Formalist/Late Modern architectural style. The CSUF Campus Core Historic District, along with its associated landscaping and hardscaping features, represents one of Fullerton's most extensive and intact collections of New Formalist/Late Modern architecture.

#7: Titan Gymnasium/Kinesiology & Health Science Building

Historic Name / Current Name:	**Physical Ed and Gymnasium Bldg/Titan Gymnasium/ Kinesiology & Health Science Building (1965-1967)**
Eligible Historical Resource?	**Yes, individually eligible** (due to site plan alterations/recent in-fill, this property is not a contributor to the Campus Core Historic District)
Applicable Criteria:	**CRHR 1/3 (Not NRHP eligible due to alterations)**
Period of Significance:	**1965 – 1967**

Character-Defining Features:

- Site plan/design, with mature landscaping
- One-story massing of geometric volumes
- New Formalist/Late Modern architectural style
- Flat roof
- Folded plate roofs with tapered squared columns along north and west elevations
- Smooth brick and concrete paneled exterior
- Repeating hexagonal pattern on vertically projecting concrete volume
- Recessed entrance, raised terrace, and multi-colored brick hardscaping along west elevation creating a sense of monumentality
- Band of industrial doors on west elevation
- Associated concrete benches with tapered pier legs

Overview of Alterations:

- Addition on east/south elevations circa 2003
- Solar panel installation on roof

Reasons Statement:

Criteria 1 eligibility: Titan Gymnasium appears CRHR eligible under Criteria 1 for its exemplification of Fullerton's rapid and extensive institutional growth and building boom in the postwar period. The building reflects a significant pattern of development in Fullerton: namely, that of institutional/educational facility expansion during the City's postwar period.

Criteria 3 eligibility: Titan Gymnasium appears CRHR eligible under Criteria 3 for its intact, distinctive New Formalist/Late Modern architectural style. The contributing features of the resource include the general site plan, surrounding hardscaping, and the concrete plaza that connects the

building to the Titan Shop/Book Store. Due to alterations (including additions in 2003), the Titan Gymnasium is not recommended eligible for the NRHP.

#8: Titan Shop/Book Store

Historic Name / Current Name:	**Cafeteria-Commons Building / Titan Shop/Book Store (1967)**
Eligible Historical Resource?	**Yes, individually eligible** (due to site plan alterations/recent in-fill, this property is not a contributor to the Campus Core Historic District)
Applicable Criteria:	**A/1; C/3**
Period of Significance:	**1967**

Character-Defining Features:

- Site plan/design, with mature landscaping
- Rectangular form; New Formalist/Brutalist architectural style
- Symmetrical design composition
- Inverted umbrella shell roof upheld by tapered columns; cantilevered roof eaves
- Concrete-clad exterior walls; walls marked with procession of attached concrete piers with reverse tapering
- Curtain walls and bands of windows with slightly raised mullions, emphasizing verticality
- Squared 'U'-shaped diagonal concrete ramps/stairs with raised sides on north and south elevations
- Tapered rectangular planters at southern end, raised concrete walls, and gradually stepped platform, emphasizing the building's material and monumentality

Overview of Alterations:

- Industrial doors appear to be nonoriginal

Reasons Statement:

Criteria 1 eligibility: Titan Shop/Book Store appears NRHP/CRHR eligible under Criteria A/1 for its exemplification of Fullerton's rapid and extensive institutional growth and building boom in the postwar period. The building reflects a significant pattern of development in Fullerton: namely, that of institutional/educational facility expansion during the City's postwar period.

Criteria 3 eligibility: Titan Shop/Book Store appears NRHP/CRHR eligible under Criteria C/3 for its distinctive, intact New Formalist/Brutalist architectural style. Contributing elements include the surrounding hardscaping and concrete plaza connecting the building to the Titan Gymnasium.

#9: Engineering and Computer Science Building Complex

Historic Name / Current Name:	**Engineering Building / Engineering and Computer Science Building Complex**
Year of Construction:	**1971**
Architect/Designer/Contractor:	**Tutor-Myers Co.**
Eligible Historical Resource?	**No**
Applicable Criteria:	**N/A**

Character-Defining Features:

- N/A

Overview of Alterations:

- Western building in complex constructed in 1988

Reasons Statement:

The Engineering and Computer Science Building Complex exhibits some of the character-defining features of the New Formalist/Late Modernist architectural style. However, the complex overall, seen in the context of similar buildings on campus, is an example but not a distinctive example of its architectural style.

In addition, research did not indicate that the building is associated with any significant events or patterns of development.

The building complex also does not appear to meet NRHP Criterion G.

Therefore, it is not eligible for either the NRHP or CRHR and is not a historical resource pursuant to CEQA.

#10: Student Health & Counseling Center

Historic Name / Current Name:	**Health Center / Student Health & Counseling Center (1974)**
Eligible Historical Resource?	**Yes, individually eligible** (due to site plan alterations/in-fill, this property is not a contributor to the Campus Core Historic District)
Applicable Criteria:	**1/3 (CRHR only)**
Period of Significance:	**1974**

Character-Defining Features:

- Site plan/design, with mature landscaping and stepped retaining wall; benches; large central lawn with mature trees
- Mass/volume/symmetrical design composition; emphasis on horizontality; Mid-Century Modern/Late Modernism architectural style; ribbon windows
- Paired paneled concrete doors; heavy projecting roof slab with overhanging eaves and pronounced fascia; repeating rectangles and squares with dropped lights
- Wrap-around colonnade of square columns; temple-like form; smooth concrete exteriors; hexagonal decorative motif

Overview of Alterations:

- Doors along east elevation appear to be unoriginal

Reasons Statement:

Criteria 1 eligibility: The Student Health & Counseling Center appears CRHR eligible under Criteria 1 for its exemplification of Fullerton's rapid and extensive institutional growth and building boom in the postwar period. Due to its age (fewer than 50 years old), the building is not recommended eligible for the NRHP under Criteria A at this time.

Criteria 3 eligibility: The Student Health & Counseling Center appears CRHR eligible under Criteria 3 for its distinctive Mid-Century Modern/Late Modernist architectural style. Due to its age (fewer than 50 years old), the building is not recommended eligible for the NRHP at this time. Contextual information on Mid-Century Modern/Late Modern architecture in Fullerton does not exist to demonstrate that the building meets NRHP Criterion G (for exceptional significance for properties

under 50 years of age). The NRHP criteria can be reassessed once such information is available or the building turns 50 years of age.

#11: Visual Arts Building Complex

Historic Name / Current Name: **Visual Arts Building / Visual Arts Building Complex (1969)**
Eligible Historical Resource? **Yes, multiple-property resource**
Applicable Criteria: **A/1; C/3**
Period of Significance: **1969-1970**

Character-Defining Features:

- One-to-two-story massing; horizontal design composition; geometric volumes
- Mid-Century Modern architectural style
- Complex of buildings connected by sheltered breezeways/arcades with flat roofs supported by squared columns
- Flat roof; exteriors of smooth concrete
- Modular design and brick pathways
- Post-and-beam construction
- Bands of sliding aluminum windows
- Grid-like screens above doorways
- Large water feature in center of complex
- Exterior spaces sectioned off with wood fences
- "Water Wall" sculpture by Ray Heins (1970)

Overview of Alterations:

- N/A

Reasons Statement:

Criteria A/1 eligibility: Visual Arts Building Complex appears NRHP/CRHR eligible under Criteria A/1 for its exemplification of Fullerton's rapid and extensive institutional growth and building boom in the postwar period. The complex reflects a significant pattern of development in Fullerton: namely, that of institutional/educational facility expansion during the City's postwar period.

Criteria C/3 eligibility: The Visual Arts Building Complex appears NRHP/CRHR eligible under Criteria C/3 for its distinctive Mid-Century Modernist architectural style. Although originally included in the 1962 Master Plan, the Visual Arts Building Complex was not constructed until 1969 and is physically separated and stylistically differentiated from the CSUF's historic core. The complex's modular, post-and-beam style is typical of Mid-Century Modern institutional architecture. The 1970 "Water Wall" sculpture, reflecting pool, and courtyard contribute to this complex.

#12: Titan Hall

Historic Name / Current Name:	**Western State University College of Law / Titan Hall (1974)**
Eligible Historical Resource?	**Yes, individually eligible** (due to its location, this property is not a contributor to the Campus Core Historic District)
Applicable Criteria:	**1/3 (CRHR only)**
Period of Significance:	**1974**

Character-Defining Features:

- Three-story massing; emphasis on verticality; New Formalist/Late Modernism style; symmetrical design composition
- Flat roof with slightly overhanging eave; tiered appearance from end bays
- Building form accentuated with thick fascia and belt course; smooth concrete exterior; ribbon windows with thick surrounds
- Bays on north and south elevations characterized by a tall central projection flanked by two smaller towers, rough concrete masonry units (CMUs), and column of fixed windows capped with flat roof
- Recessed entrance features floor-to-ceiling windows and industrial doors

Overview of Alterations:

- N/A

Reasons Statement:

Criteria 1 eligibility: Titan Hall appears CRHR eligible under Criteria 1 for its exemplification of Fullerton's rapid and extensive institutional growth and building boom in the postwar period. Due to its age (fewer than 50 years old), the building is not recommended eligible for the NRHP under Criteria A at this time.

Criteria 3 eligibility: Titan Hall appears CRHR eligible under Criteria 3 for its distinctive New Formalist/Late Modernist architectural style. Due to its age (fewer than 50 years old), the building is not recommended eligible for the NRHP at this time. Although it is a distinctive example of its style, contextual information on New Formalism/Late Modern architecture in Fullerton as a whole does not exist to demonstrate that the building meets NRHP Criterion G (for exceptional significance for properties under 50 years of age). The NRHP criteria can be reassessed once such information is available or the building turns 50 years of age.

#13: Titan House

Historic Name / Current Name: **Henry T. Hetebrink House / Titan House (1886)**

Eligible Historical Resource? **Yes, individually eligible**

Applicable Criteria: **A/1, C/3**

Period of Significance: **1886**

Character-Defining Features:

- One-story massing
- Colonial Revival-influenced style
- Symmetrical design composition
- Hipped roof with interior brick chimney, slight eave overhang, exposed rafter tails
- Exterior brick walls
- Full-width porch with brick base and hipped roof, squared tapered columns and piers
- Rear entry porch with concrete base, wood latticework siding, squared paneled piers, wood balustrade, and glazed doors
- Wood transom windows and casement windows flanking primary entrance
- Double-hung wood windows

Overview of Alterations:

- Roof vents
- Double-entry stairs and ADA-accessible ramp on south and east elevations
- Original door appears to have been replaced
- Greenhouse addition along western elevation

Reasons Statement:

Criteria A/1: The Titan House (Henry T. Hetebrink House), built for and by Fullerton settler and citrus farmer Henry Hetebrink, appears NRHP/CRHR eligible under Criteria A/1, as a rare, intact embodiment of a significant pattern of development: namely, Fullerton's founding years and early agricultural era.

Criteria C/3: The Hetebrink House appears NRHP/CRHR eligible under Criteria C/3 as a rare example of a 19th-century Colonial Revival-influenced style home and as one of the oldest brick residences in Orange County.

#14: George G. Golleher Alumni House

Historic Name / Current Name:	**Mahr House / George G. Golleher Alumni House (1931)**
Eligible Historical Resource?	**Yes (individually eligible)**
Applicable Criteria:	**C/3**
Period of Significance:	**1931**

Character-Defining Features:

- Two-story massing
- Spanish Colonial Revival style
- Asymmetrical design composition with central rectangular body and various wings
- Flat and gable roof clad in red clay tiles with exposed rafter tails
- Battered stucco-clad exterior
- Central courtyard with fountain featuring stucco- and tile-clad base
- Balconies with double wood doors
- Inset balcony along eastern elevation with squared piers
- Paired wood casement windows

Overview of Alterations:

- Building appears to have been re-stuccoed, possibly in 1960
- North wing addition
- Concrete Masonry Unit (CMU) stucco-clad wall with archway entrance and rear arcade
- Tile flooring of interior courtyard
- Wood gate entrances along eastern elevation
- Modern light sconces
- Wood pergola

Reasons Statement:

Criteria C/3: The George G. Golleher Alumni House (Mahr House) appears NRHP/CRHR eligible under Criteria C/3 as an intact, distinctive example of the Spanish Colonial Revival style.

#15: Heritage House

Historic Name / Current Name: **Dr. George C. Clark House and Office/Heritage House (1896)**

Eligible Historical Resource? **Yes (listed in the NRHP)**

Applicable Criteria: **A/1, C/3**

Character-Defining Features:

- Architectural focal point and anchor of the CSUF Arboretum complex
- One-and-a-half-story massing
- Eastlake Victorian style
- Asymmetrical design composition
- Wood clapboard wall cladding with corner boards and fish scale detailing on gable ends
- Full-width wrap-around porch with turned wood spindle supports, low wood balustrade, decorative trusses, and spindlework frieze
- Beveled, stained-glass, and single-hung wood windows
- Sunburst and basket weaving motifs in window surrounds
- Rear bay window capped with gable roof featuring elaborate ornamented gable detailing and roof cresting

Overview of Alterations:

- Moved to current site in 1972
- Reconstructed steeply pitched hipped with cross gabled roof; cedar shingle sheathing; interior brick chimneys and ornate gables
- Rear ADA-accessible ramp
- Interior spaces re-plastered

Reasons Statement:

Criteria A/1: The Heritage House (Dr. George C. Clark House and Office) is listed on the NRHP. The property appears NRHP/CRHR eligible under Criteria A/1, as a rare, intact embodiment of a significant pattern of development: namely, Fullerton's founding years and early agricultural era.

Criteria C/3: The Heritage House appears NRHP/CRHR eligible under Criteria C/3 as one of the last remaining examples of the Eastlake Victorian style in Fullerton (C/3) and an intact exemplification of Fullerton's founding years (A/1).

#16: Arboretum

Historic Name / Current Name: **Arboretum (1972-1979)**
Eligible Historical Resource? **No**
Applicable Criteria: **N/A**

Character-Defining Features:

- N/A

Overview of Alterations:

- N/A

Evaluation Summary:

The Arboretum, primarily developed in 1977-1979 and past the survey target for this study, warrants evaluation once all of its components reach 45 years of age. Although there appear to be eight surviving Valencia orange trees on the campus, including several on the site of the Arboretum, available literature did not reveal their location or origins. Once the components of the Arboretum reach 45 years of age, it is recommended that additional archival research and a subsequent survey, with a team including a preservation professional and arborist, be undertaken.

6 Recommendations and Conclusions

This study documented the findings of a historic resources survey conducted by Rincon of the CSUF campus. The survey scope included all permanent buildings, aged 45 years or older as of 2019/2020 (i.e., constructed through the year 1975). This project was completed in support of CSUF Master Plan updates. As a result of the CSUF survey, a total of 13 properties were identified as historical resources pursuant to CEQA. This includes one collection of related properties, the Campus Core Historic District.

Per CEQA, for historical resources, the loss of character-defining features and, as a consequence, historic integrity represents a significant adverse impact to historic resources. Under CEQA, for qualifying projects, should the potential exist for an adverse impact to historic resources, it is necessary to conduct further environmental review and study, including impacts analyses and the preparation of mitigation measures and project alternatives.

Rincon presents the following recommendations as preservation management practices as projects for the Master Plan are completed. (This is not an impacts analysis nor are these mitigation measures—these are recommendations and best preservation practices aimed at assisting CSUF to manage its many significant, distinctive historic resources. The impacts analysis and corresponding mitigation measures are included in the EIR completed as part of the Master Plan project.)

1. Design Modernization and Upgrade Projects to Comply with the *Secretary's Standards*

For projects involving historic resources, compliance with the *Secretary's Standards* can yield not only better projects that retain the distinctive characteristics of historic properties, districts, and landscape. *Secretary's Standards* compliance also yields a more streamlined CEQA process. Codified in 36 Code of Federal Regulations 67, the *Secretary's Standards* are the industry-recognized guidelines for fostering the preservation, rehabilitation, and maintenance of historic properties (Figure 49). CEQA Guidelines recognize compliance with these standards as the method for avoiding significant adverse impacts to historic resources. According to CEQA Guidelines Section 15064.5(b)(3), projects shown to comply with the *Secretary's Standards* **can generally qualify under CEQA for a Class 31 Categorical Exemption** from further environmental review.

In this way, when it comes to projects affecting historical resources, compliance with the *Secretary's Standards* not only streamlines environmental review and project implementation, it also helps protect significant historic properties. Not all projects that depart from the *Secretary's Standards* automatically result in significant adverse impacts. But *Secretary's Standards* compliance generally ensures that alterations to a historic resource will not result in a loss of historic integrity.

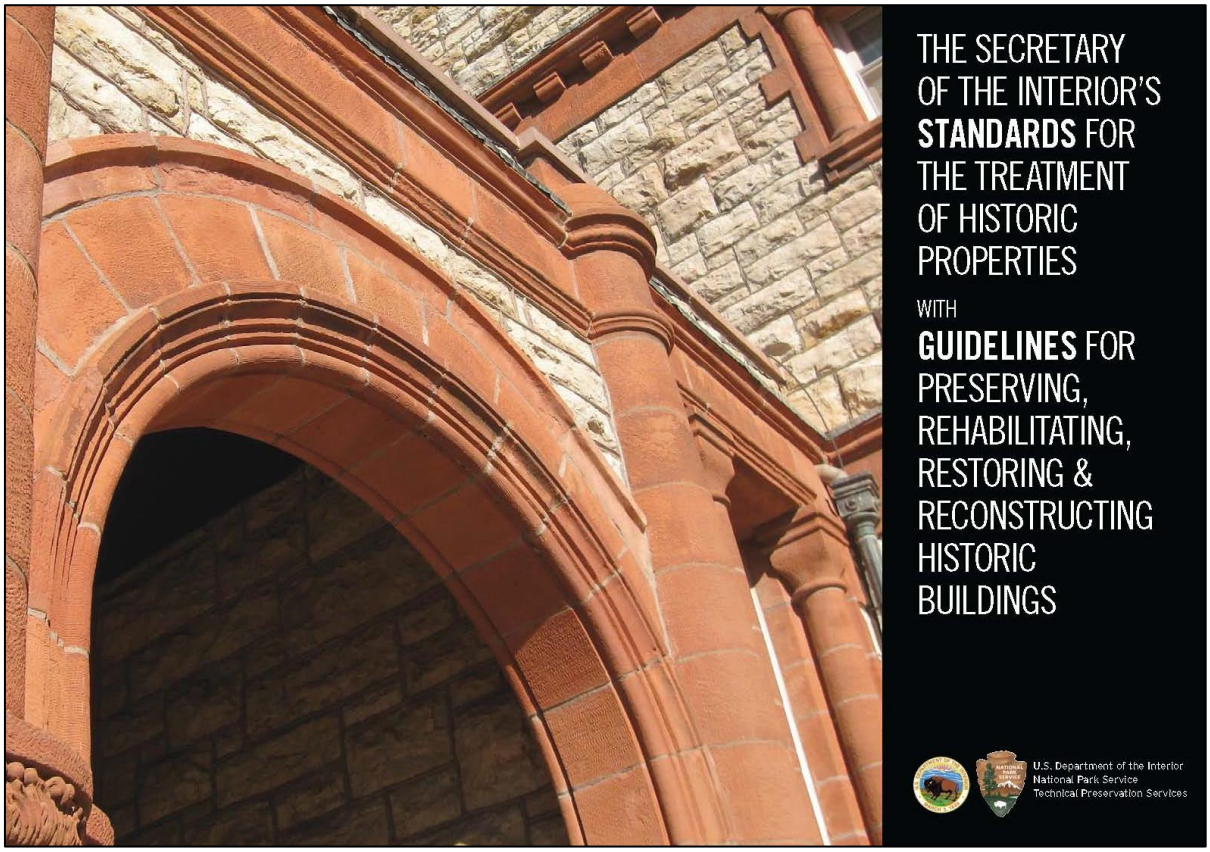
2. Commission CSUF Design Guidelines for Historic Resources

In order to streamline project planning and environmental review, it is recommended that CSUF commission focused design guidelines to manage change and upgrades to its historical resources. Design guidelines, rather than providing inflexible, prescriptive requirements, offer general, common-sense approaches for maintaining, repairing, and treating historically significant features and materials. The basic principles of the *Secretary's Standards* are to identify, retain, and preserve the features and materials that convey the significance of historic properties.

Such design guidelines would be tailored to the specific historical resources of CSUF and their character-defining features, as described in this report, as well as the specific upgrade and

modernization projects needed on campus. Drawing on the *Secretary's Standards*, the CSUF design guidelines would help campus architects and facilities staff in the management and upgrades to historic properties. In addition to project-specific guidelines, design guidelines can include information tailored to building components and materials.

Figure 49 The National Park Service *Secretary's Standards*. Under CEQA, a Categorical Exemption is possible for projects complying with these standards.



Source: National Park Service, Department of the Interior

3. Utilize California Historical Building Code (CHBC) for eligible historic resources properties

In conjunction with the Department of the State Architect, CSUF can utilize the CHBC for qualifying buildings on a case-by-case basis to plan projects to historic properties that allow for upgrades while also protecting historic integrity

In California, properties that are part of an adopted inventory qualify for building code exemptions under the California Historic Building Code (CHBC).

As codified in Section 8 of the California Code of Regulations, Title 24, the CHBC offers flexibility for code requirements and "requires enforcing agencies to accept solutions that are reasonably equivalent to the regular code (as defined in Chapter 8-2) when dealing with qualified historical buildings or properties."[165] The CHBC is intended to provide solutions for the preservation of qualified historical buildings or properties, to promote sustainability, to provide access for persons with disabilities, to provide a cost-effective approach to preservation, and to provide for the reasonable safety of the occupants or users.

The use of the CHBC can provide code flexibility to CSUF on a number of fronts. As defined in California Health and Safety Code Section 18955, historical buildings and properties qualifying for use of the CHBC include

> Any building, site, object, place, location, district or collection of structures, and their associated sites, deemed of importance to the history, architecture or culture of an area by an appropriate local, state or federal governmental jurisdiction. This shall include historical buildings or properties on, or determined eligible for, national, state or local historical registers or inventories, such as the National Register of Historic Places, California Register of Historical Resources, State Historical Landmarks, State Points of Historical Interest, and city or county registers, inventories or surveys of historical or architecturally significant sites, places or landmarks.[166]

The CHBC offers guidance and alternatives for projects involving Fire Protection (Section 8-4), Means of Egress (Section 8-5), Accessibility (Section 8-6), Structural Regulations (Section 8-7), Archaic Materials and Methods of Construction (Section 8-8), Mechanical, Plumbing and Electrical Requirements (Section 8-9), and Qualified Historical Districts, Sites and Open Spaces (Section 8-10).

Pursuant to Section 18954 of the California Health and Safety Code, the state or local enforcing agency "shall administer and enforce the provisions of the CHBC in permitting repairs, alterations and additions necessary for the preservation, restoration, reconstructions, rehabilitation, relocations or continued use of a qualified historical building or property."[167] Applications of CHBC exemption to qualifying CSUF properties should be carried out on a case-by-case basis in conjunction with a qualified historic preservation professional.

4. Focus on Noncontributing Lots and Properties for In-fill and Development Projects

As CSUF continues to expand, it is recommended that future development focus on areas with no historical resources, where possible. Where new construction is adjacent to a historical resource, it is recommended that CSUF design the new construction to be compatible with the adjacent historic property. The Secretary's Standards for Rehabilitation include guidelines for the design and implementation of new construction adjacent to historic properties. Such in-fill and development projects adjacent to historical resources should be designed in conjunction with a qualified historic preservation professional.

5. Design and Install Interpretive Panels and Exhibit on CSUF History

As shown in this study, CSUF has a noteworthy history, from its early years as vibrant citrus fields, to the gradual development of CSUF and its current status as one of the most cohesive collections of New Formalist/Late Modern architecture in Fullerton.

It is recommended that, in order to bring this history to life for CSUF staff, faculty, and students, an interpretive program be designed and installed on campus. Such an interpretive program could include information on the campus's architecture, its development phases, as well as cultural and pre-CSUF history. The research presented in this report provides an ideal starting point for a concise, effective interpretive program that will convey CSUF's rich history to today's students, faculty, and community members.

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Appendix G

Assembly Bill 52 (AB52) Consultation Records

CSU Fullerton Master Plan Update Project AB 52 Correspondence

Contact List	Date Letter Sent to contact	Date of Response	Comments/Concerns
Gabrieleño Band of Mission Indians – Kizh Nation Andrew Salas, Chairperson P.O. Box 393 Covina, California 91723 Phone: (626) 926 - 4131 admin@gabrielenoindians.org	August 30, 2019	September 17, 2019	Andrew Salas, Chairman Gabrieleno Band of Mission Indians – Kizh Nation 1 (844) 390-0787 Consultation November 13, 2019, minutes attached
Gabrieleño/Tongva San Gabriel Band of Mission Indians Anthony Morales, Chairperson P.O. Box 693 San Gabriel, California 91778 Phone: (626) 483-3565	August 30, 2019	None	
Gabrieleño/Tongva Nation Sandonne Goad, Chairperson 106 ½ Judge John Aiso Street #231 Los Angeles, California 90012 Phone: (951) 807-0479 sgoad@gabrielino-tongva.com	August 30, 2019	None	
Gabrieleño/Tongva Indians of California Tribal Council Robert Dorame, Chairperson P.O. Box 490 Bellflower, California 90707 Phone: (562) 761 - 6417 gtongva@gmail.com	August 30, 2019	None	
Gabrieliño/Tongva Tribe Linda Candelaria, Chairperson 80839 Camino Santa Juliana Indio, California 92203 lcandelaria1@gabrielinotribe.org	August 30, 2019	September 12, 2019	Sam Dunlap, Cultural Resource Director Gabrielino Tongva Tribe tongvatcr@gmail.com or samdunlap@earthlink.net 909-262-9351 mobile Consultation October 8, 2019, minutes attached

Contact List	Date Letter Sent to contact	Date of Response	Comments/Concerns
Gabrieliño/Tongva Tribe Charles Alvarez, Councilmember 32161 Avenida Los Amigos San Juan Capistrano, California 92675 Phone: (949) 444 - 4340 kaamalam@gmail.com Letter re-sent to corrected address provided by Tiffany Clark: Gabrielino-Tongva Tribe Charles Alvarez 23454 Vanowen Street West Hills, CA, 91307 Phone: (310) 403-6048 roadkingcharles@aol.com	August 30, 2019 – returned unclaimed October 9, 2019	None	

Minutes • AB 52 Consultation

October 8, 2019

Attendees:

- Sam Dunlap, Cultural Resources Director, Gabrielino Tongva Tribe
- Emil Zordilla, Director of Planning & Design/Campus Architect, Cal State Fullerton
- Anne Collins-Doehne, Principal Environmental Planner, California State University
- Tiffany Clark, Senior Archaeologist, Rincon Consultants, Inc.
- Audrey Eftychiou, Communications Specialist, Capital Programs and Facilities Management, Cal State Fullerton

Discussion:

All attendees introduced themselves. **Mr. Dunlap** is representing the Gabrielino Tongva Tribe and tribal chair Linda Candelaria. He is also contracted with Cal State Long Beach and other agencies to provide Native American and archaeological monitoring.

Emil Zordilla offered a brief description of the Campus Master Plan Preferred Option and the EIR process, including

- Project location slide
- Map of project area
- Proposed housing units
- New academic buildings
- 2-3 transit hubs, depending on bus lines
- Possible parking structure
- Increased campus headcount, from 40,000 to 46,000 (approximate)
- Increased FTEs from 25,000 to 32,000
- NOP process and EIR areas of study

Mr. Dunlap stated that he had not yet looked at the plan but that he is very familiar with the EIR process.

- The tribe's main concern would be preservation and protection of any tribal cultural resources, ensuring that they are not simply avoided but properly assessed and mitigated.
- Mitigation measures should spell out steps to be taken prior to construction.

- His questions center on Rincon's records search and any recorded sites on campus or in the vicinity.

Tiffany Clark stated that the records search, extending a half-mile from campus, showed several historic structures but no recorded archeological or tribal resources.

Mr. Dunlap would like additional information on the project area's history, waterways and topography via USGS maps, and whether any historic artifacts were recovered during previous construction projects. He noted that pre-CEQA, development may have occurred, especially in older cities, without proper protection of archaeological sites.

Ms. Clark noted that Rincon had recently completed a cultural resources study for the Eastside 2 Parking Structure, now under construction, and that post-CEQA and over the past 10 years there have been no recorded archaeological materials found during ground disturbance/construction on campus.

Mr. Dunlap:

- Explained that Gabrielino territory extends from Malibu to Laguna to Riverside/Beaumont, incorporating roughly 180 cities.
- The Gabrielino Tribe and Gabrielino Tongva Nation have asked Mr. Dunlap to voice their concerns to consulting cities and agencies that they are surrounded by other tribes and that encroachment is an issue.
- There are five Gabrielino tribes in the region. From the original two, a third was formed in 1995, a fourth was formed in 2006 and a fifth was formed in 2008. Mr. Dunlap works with three of the five.
- Tongva is a native word that means "the people," and their vision is to nurture unity within the Gabrielino community.
- The newest faction, the Gabrielino Kizh Nation, "hates" everyone and attempts to discredit other tribes, including the Tongva Nation. Kizh Nation attempts to convince lead agencies to adopt mitigation measures that require engagement/consultation solely with them.
- Mitigation measures specific to one tribe are a problem. Mr. Dunlap recommends generic language that specifies engagement of a monitor "from the Gabrielino tribe/community" within the project area, not from any specific tribal faction.
- The Kizh Nation has used AB 52 as a mechanism to monopolize native monitoring, which has become a competitive enterprise because it generates revenue and employment.
- Mr. Dunlap stated that he offers a competitive rate, "but if the project doesn't need monitoring, I don't want to waste anyone's money."
- The Juanenos' northern border, established through ethnographic study, is Aliso Creek, but the tribe has steadily moved north into Orange County. The Juanenos

may want to consult, but they “have no business here.” Mr. Dunlap represents the Juanenos “when the issue is just” and a claim to the territory is valid.

- It is possible to include multiple monitors from more than one tribe. Examples include Bolsa Chica Mesa in Huntington Beach and the current Mid County Parkway Project. Riverside County Transportation Commission is alternating five tribal monitors week by week.

Emil Zordilla asked whether Mr. Dunlap has ever suggested consulting with another tribe for monitoring during construction, or whether tribes are specified up front.

Mr. Dunlap stated that certain people specialize in certain areas, such as language, basket weaving, tool making, oral history, spirituality, ceremonies and traditions, so they may be called upon for advice as needed.

Tiffany Clark noted that if/when cultural resources are found, the lead agency can bring back the groups who have been consulted and build this in to mitigation to make sure all stakeholders have a voice.

Mr. Dunlap inquired about ground disturbance, geotech studies or boring samples – the first three to four feet of soil and sediment are usually indicative of any cultural resources. If a site has been graded and soil redeposited elsewhere, it is still important.

Anne Collins-Doehne noted that artificial fill may be sensitive depending on its origin.

Mr. Dunlap explained that, in contrast with the Gabrielinos, the Kizh definition of ground disturbance is “boiler plate,” very conservative and shallow. The definition should vary by project and site. A conservative definition spurs unnecessary mitigation that wastes the client’s money.

Emil Zordilla asked what the process would be if the lead agency didn’t agree with a tribe’s suggested mitigation measures.

Anne Collins-Doehne noted that the law specifies that if there is a disagreement, the tribe must provide evidence.

Mr. Dunlap agreed that AB 52 requires consultation only. “Let’s say this corner is highly sacred to the tribe and should be 100% monitored by a tribe or two. I think that would be unreasonable and you would have to call me out on it.”

- Claims are often based on oral histories, but evidence is hard to come by.
- Some tribes regard native monitoring as a good opportunity to make money.
- None of the Gabrielino groups have been intact and continuous for more than 30 years, so there is little documented information available.

Tiffany Clark will provide Mr. Dunlap with topographical maps overlaid with the project site.

Minutes • AB 52 Consultation

November 13, 2019

Attendees:

- Andrew Salas, Gabrieleno-Kizh Nation
- Matthew Teutimez, Gabrieleno-Kizh Nation
- Lexie Salas, Gabrieleno Band of Mission Indians
- Emil Zordilla, Director of Planning & Design/Campus Architect, Cal State Fullerton
- Anne Collins-Doehne, Principal Environmental Planner, California State University
- Tiffany Clark, Senior Archaeologist, Rincon Consultants, Inc.
- Audrey Eftychiou, Communications Specialist, Capital Programs and Facilities Management, Cal State Fullerton

Discussion:

All attendees introduced themselves. **Andrew Salas** explained his lineage, as son of chief and spiritual leader Ernie Salas, with ties to the San Gabriel Mission Indians as well as some of the area's original Spanish and Mexican landowners and other prominent figures. **Matt Teutimez** is his cousin, as well as the tribal biologist and head of its cultural department. **Lexie Salas** is Andrew's daughter.

Andrew Salas explained his tribe's interest in Cal State Fullerton as part of its ancestral area. He expanded on his knowledge of area history, sites and common names.

Emil Zordilla gave an overview of the master plan update and the types of academic spaces and amenities that may be added over the next 30 years, contingent on funding, to accommodate growth.

Tiffany Clark noted that her firm completed a records search and archaeological report, but no tribal resources were identified, only historic structures. The land was used for orange groves immediately prior to the university's construction.

Matt Teutimez noted that the land was occupied by humans for thousands of years before the orange groves. "We help fill in those gaps" of knowledge, he said. His "guesstimate" is that "there was an entire civilization under this campus" due to nearby resources that would attract and support tribes, including oil, level landscapes, unique

ocean resources, water sources and springs, and trade corridors leading throughout the Southwest.

His tribe's concern is primarily with any ground disturbance. He believes tribal resources may have been disturbed during pre-AB 52 construction. There is a "high potential to find resources."

He noted that during today's construction, soil is removed and replaced with imported, compacted soil. During 1960s construction, soil may have been removed and then returned; tribal resources may still be in place, but never recognized. He reported that tribal resources have been found at nearby Hillcrest Park, Chapman University, UC Irvine, Cal State Long Beach and during the 405 Freeway widening.

"Our main goal is to come here and work with you guys, not against you. Our purpose of consulting is that (tribal resources are) meaningful to us. We want to protect the little bit of history we have out there."

Emil Zordilla shared that Cal State Fullerton concurs and that the university's goal is to mitigate any disturbances and discuss best practices.

Matthew Teutimez shared topographical maps of the Fullerton region and Coyote Hills, showing geographical features, plus hand-drawn missionary routes, village locations, battlefields and trade routes to "back up our oral history." **Mr. Teutimez** and **Mr. Salas** described the natural resources specific to the region (cottonwood, sagebrush, mugwort, etc.) used by native groups, as well as potential seasonal living areas near local hills and waterways. Mr. Salas includes these landscapes within the definition of "tribal resources."

Emil Zordilla asked how the tribe usually addresses mitigation.

Matthew Teutimez said the tribe seeks to include mitigation in any driving document that calls for on-site monitoring of any ground-disturbing activities.

Andrew Salas indicated that the tribe's first priority is avoidance. Second would be mitigation, or an alternative. **Mr. Salas** noted that his group now provides professional reports on tribal resources, prepared at the conclusion of monitoring, using the CEQA structure. He provided an example from Chapman University, documenting the discovery and significance of a 10 cm shaman stone found during construction.

Emil Zordilla thanked the group for their information and stories and invited them to send potential mitigation language for consideration.

CALIFORNIA STATE UNIVERSITY
FULLERTON

Division of Administration and Finance
Capital Programs and Facilities Management
P.O. Box 6806, Fullerton, CA 92834-6806

August 30, 2019

Anthony Morales, Chairperson
Gabrieleño/Tongva San Gabriel Band of Mission Indians
P.O. Box 693
San Gabriel, California 91778

RE: AB 52 Consultation, CSU Fullerton Master Plan Update Project, Orange County, California

Chairperson Morales:

California State University, Fullerton (CSUF) is preparing an update of the CSUF Master Development Plan (MDP), also known as the 2003 MDP. CSUF certified an Environmental Impact Report for the 2003 MDP in August, 2003. The proposed project is the CSUF Educational and Facilities Master Plan Update, also referred to as the Campus Master Plan (CMP). The CMP is a guide for the future development of the CSUF campus. CSUF is one of 23 campuses which make up the California State University System. According to the CSUF Division of Academic Affairs, CSUF reached the 25,000 on-campus full-time equivalent students (FTES) MDP Ceiling in the 2016-2017 academic year. The CMP is designed to accommodate a 32,000 on-campus FTES ceiling in 2039. This is a total increase of 7,000 FTES, or 28 percent growth. These FTES increases are based on estimates of future demand for CSUF's services. The CMP would accommodate, not cause, these projected FTES increases, which are projected to occur with or without implementation of the CMP.

The project site is the campus of California State University, Fullerton (CSUF), which is located at 800 North State College Boulevard in the City of Fullerton, Orange County, primarily in the block of land between Nutwood Avenue on the south, State College Boulevard on the west, Yorba Linda Boulevard on the north, and State Route 57 (SR 57), the Orange Freeway, on the east. A block of the project site lies across Nutwood Avenue, which lies between Nutwood Avenue to the north, Langsdorf Drive to the east, College Place to the south, and North Commonwealth Avenue to the west. The proposed project is subject to the California Environmental Quality Act (CEQA).

The proposed project must comply with California Public Resources Code § 21080.3.1 (Assembly Bill [AB] 52 of 2014), which requires local governments to conduct meaningful consultation with California Native American tribes that have requested to be notified by lead agencies of proposed projects in the geographic area with which the tribe is traditionally and culturally affiliated.

The input of your tribe is important to CSUF's planning process. Under AB 52, you have 30 days from receipt of this letter to respond in writing to the mailing address listed below if you wish to consult on the proposed project. If you require any additional information or have any questions, please contact me via e-mail at ezordilla@fullerton.edu or by telephone at (657) 278-3735. You may also find information at masterplan.fullerton.edu. Thank you for your assistance.

Sincerely,

Emil Zordilla
Director, Office of Planning and Design
California State University, Fullerton
800 N. State College Blvd., T-2000
Fullerton, CA 92831-3547

Enclosure: Project Location Map

CALIFORNIA STATE UNIVERSITY
FULLERTON

Division of Administration and Finance
Capital Programs and Facilities Management
P.O. Box 6806, Fullerton, CA 92834-6806

August 30, 2019

Sandonne Goad, Chairperson
Gabrieliño/Tongva Nation
106 ½ Judge John Aiso Street #231
Los Angeles, California 90012

RE: AB 52 Consultation, CSU Fullerton Master Plan Update Project, Orange County, California

Chairperson Goad:

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Sincerely,

Emil Zordilla
Director, Office of Planning and Design
California State University, Fullerton
800 N. State College Blvd., T-2000
Fullerton, CA 92831-3547

Enclosure: Project Location Map

CALIFORNIA STATE UNIVERSITY
FULLERTON

Division of Administration and Finance
Capital Programs and Facilities Management
P.O. Box 6806, Fullerton, CA 92834-6806

August 30, 2019

Linda Candelaria, Chairperson
Gabrieleño/Tongva Tribe
80839 Camino Santa Juliana
Indio, California 92203

RE: AB 52 Consultation, CSU Fullerton Master Plan Update Project, Orange County, California

Chairperson Candelaria:

California State University, Fullerton (CSUF) is preparing an update of the CSUF Master Development Plan (MDP), also known as the 2003 MDP. CSUF certified an Environmental Impact Report for the 2003 MDP in August, 2003. The proposed project is the CSUF Educational and Facilities Master Plan Update, also referred to as the Campus Master Plan (CMP). The CMP is a guide for the future development of the CSUF campus. CSUF is one of 23 campuses which make up the California State University System. According to the CSUF Division of Academic Affairs, CSUF reached the 25,000 on-campus full-time equivalent students (FTES) MDP Ceiling in the 2016-2017 academic year. The CMP is designed to accommodate a 32,000 on-campus FTES ceiling in 2039. This is a total increase of 7,000 FTES, or 28 percent growth. These FTES increases are based on estimates of future demand for CSUF's services. The CMP would accommodate, not cause, these projected FTES increases, which are projected to occur with or without implementation of the CMP.

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Emil Zordilla
Director, Office of Planning and Design
California State University, Fullerton
800 N. State College Blvd., T-2000
Fullerton, CA 92831-3547

Enclosure: Project Location Map

CALIFORNIA STATE UNIVERSITY
FULLERTON

Division of Administration and Finance
Capital Programs and Facilities Management
P.O. Box 6806, Fullerton, CA 92834-6806

August 30, 2019

Andrew Salas, Chairperson
Gabrieleño Band of Mission Indians – Kizh Nation
P.O. Box 393
Covina, California 91723

RE: AB 52 Consultation, CSU Fullerton Master Plan Update Project, Orange County, California

Chairperson Salas:

California State University, Fullerton (CSUF) is preparing an update of the CSUF Master Development Plan (MDP), also known as the 2003 MDP. CSUF certified an Environmental Impact Report for the 2003 MDP in August, 2003. The proposed project is the CSUF Educational and Facilities Master Plan Update, also referred to as the Campus Master Plan (CMP). The CMP is a guide for the future development of the CSUF campus. CSUF is one of 23 campuses which make up the California State University System. According to the CSUF Division of Academic Affairs, CSUF reached the 25,000 on-campus full-time equivalent students (FTES) MDP Ceiling in the 2016-2017 academic year. The CMP is designed to accommodate a 32,000 on-campus FTES ceiling in 2039. This is a total increase of 7,000 FTES, or 28 percent growth. These FTES increases are based on estimates of future demand for CSUF's services. The CMP would accommodate, not cause, these projected FTES increases, which are projected to occur with or without implementation of the CMP.

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Director, Office of Planning and Design
California State University, Fullerton
800 N. State College Blvd., T-2000
Fullerton, CA 92831-3547

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CALIFORNIA STATE UNIVERSITY
FULLERTON

Division of Administration and Finance
Capital Programs and Facilities Management
P.O. Box 6806, Fullerton, CA 92834-6806

August 30, 2019

Gabrieleño/Tongva Indians of California Tribal Council
Robert Dorame, Chairperson
P.O. Box 490
Bellflower, California 90707

RE: AB 52 Consultation, CSU Fullerton Master Plan Update Project, Orange County, California

Chairperson Dorame:

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Fullerton, CA 92831-3547

Enclosure: Project Location Map

CALIFORNIA STATE UNIVERSITY
FULLERTON

Division of Administration and Finance
Capital Programs and Facilities Management
P.O. Box 6806, Fullerton, CA 92834-6806

August 30, 2019

Charles Alvarez, Councilmember
32161 Avenida Los Amigos
San Juan Capistrano, California 92675

RE: AB 52 Consultation, CSU Fullerton Master Plan Update Project, Orange County, California

Councilmember Alvarez:

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California State University, Fullerton
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Fullerton, CA 92831-3547

Enclosure: Project Location Map

CALIFORNIA STATE UNIVERSITY
FULLERTON

Division of Administration and Finance
Capital Programs and Facilities Management
P.O. Box 6806, Fullerton, CA 92834-6806

October 9, 2019

Charles Alvarez
Gabrielino-Tongva Tribe
23454 Vanowen Street
West Hills, California 91307

RE: AB 52 Consultation, CSU Fullerton Master Plan Update Project, Orange County, California

Councilmember Alvarez:

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Sincerely,

Emil Zordilla
Director, Office of Planning and Design
California State University, Fullerton
800 N. State College Blvd., T-2000
Fullerton, CA 92831-3547

Enclosure: Project Location Map

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Andrew Salas, Chairperson
Gabrieleno Band of Mission Indians-Kizh Nation
PO Box 393
Covina, CA 91723

9590 9402 3894 8060 8294 87

2. Article Number *(Transfer from service label)*

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X
☐ Agent
☐ Addressee

B. Received by *(Printed Name)* | C. Date of Delivery

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
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PS Form 3811, July 2015 PSN 7530-02-000-9053 Domestic Return Receipt

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1. Article Addressed to:

Sandonne Goad, Chairperson
Gabrieleño/Tongva Nation
106 ½ Judge John Aiso Street #231
Los Angeles, CA 90012

9590 9402 3894 8060 8295 00

2. Article Number *(Transfer from service label)*

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A. Signature
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☐ Agent
☐ Addressee

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1. Article Addressed to:

Anthony Morales, Chairperson
Gabrieleno/Tongva San Gabriel Band of Mission Indians
PO Box 693
San Gabriel, CA 91778

9590 9402 3894 8060 8295 17

2. Article Number *(Transfer from service label)*

COMPLETE THIS SECTION ON DELIVERY

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☐ Addressee

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1. Article Addressed to:

Linda Candelaria, Chairperson
Gabrieleno/Tongva Tribe
80839 Camino Santa Juliana
Indio, CA 92203

9590 9402 3894 8060 8294 94

2. Article Number *(Transfer from service label)*

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A. Signature
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☐ Agent
☐ Addressee

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C. Date of Delivery

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1. Article Addressed to:

Gabrieleno/Tongva Indians of California Tribal Council
Robert Dorame, Chairperson
PO Box 490
Bellflower, CA 90707

9590 9402 3894 8060 8294 70

2. Article Number *(Transfer from service label)*

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A. Signature
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☐ Agent
☐ Addressee

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1. Article Addressed to:

Charles Alvarez, Councilmember
32161 Avenida Los Amigos
San Juan Capistrano, CA 92675

9590 9402 3894 8060 8294 63

2. Article Number *(Transfer from service label)*

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X
☐ Agent
☐ Addressee

B. Received by *(Printed Name)*

C. Date of Delivery

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
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- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Andrew Salas, Chairperson
Gabrieleno Band of Mission Indians-Kizh Nation
P O Box 393
Covina, CA 91723

9590 9402 3894 8060 8294 87

2. Article Number (Transfer from service label)

7018 1130 0001 5901 9781 ✓

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X
☐ Agent
☐ Addressee

B. Received by (Printed Name)
C. Date of Delivery 9-3-19

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
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PS Form 3811, July 2015 PSN 7530-02-000-9053 8-30 Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
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- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Linda Candelaria, Chairperson
Gabrieleno/Tongva Tribe
80839 Camino Santa Juliana
Indio, CA 92203

9590 9402 3894 8060 8294 94

2. Article Number (Transfer from service label)

7018 1130 0001 5901 9798 ✓

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X See 3849 Scan 9/3/19
☐ Agent
☐ Addressee

B. Received by (Printed Name) Linda Candelaria
C. Date of Delivery 9/3/19

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☒ No

3. Service Type
☐ Adult Signature
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PS Form 3811, July 2015 PSN 7530-02-000-9053 Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

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- Attach this card to the back of the mailpiece, or on the front if space permits.

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Sandonne Goad, Chairperson
Gabrieleno/Tongva Nation
106 ½ Judge John Aiso Street #231
Los Angeles, CA 90012

9590 9402 3894 8060 8295 00

2. Article Number (Transfer from service label)

7018 1130 0001 5901 9828 ✓

COMPLETE THIS SECTION ON DELIVERY

A. Signature
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☐ Agent
☐ Addressee

B. Received by (Printed Name)
C. Date of Delivery 9/3

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☐ Adult Signature
☐ Adult Signature Restricted Delivery
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PS Form 3811, July 2015 PSN 7530-02-000-9053 8-30 Domestic Return Receipt

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1. Article Addressed to:

Anthony Morales, Chairperson
Gabrieleno/Tongva San Gabriel
Band of Mission Indians
PO Box 693
San Gabriel, CA 91778

9590 9402 3894 8060 8295 17

2. Article Number (Transfer from service label)

7018 1130 0001 5901 9804

PS Form 3811, July 2015 PSN 7530-02-000-9053

8/30

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A. Signature
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☐ Agent
☐ Addressee

B. Received by (Printed Name)
C. Date of Delivery
9-4-19

D. Is delivery address different from item 1?
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☐ No

SAN GABRIEL CA 91776
SEP - 4 2019
USPS

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1. Article Addressed to:

Gabrieleno/Tongva Indians
of California Tribal Council
Robert Dorame, Chairperson
PO Box 490
Bellflower, CA 90707

9590 9402 3894 8060 8294 70

2. Article Number (Transfer from service label)

7018 1130 0001 5901 9774

PS Form 3811, July 2015 PSN 7530-02-000-9053

8 30

COMPLETE THIS SECTION ON DELIVERY

A. Signature
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☑ Agent
☐ Addressee

B. Received by (Printed Name)
TAN NICHOLS
C. Date of Delivery
9/23/19

D. Is delivery address different from item 1?
If YES, enter delivery address below:
☐ Yes
☐ No

3. Service Type
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Domestic Return Receipt

CALIFORNIA STATE UNIVERSITY
FULLERTON
Division of Administration & Finance
Facilities Management
P O Box 6806
Fullerton, CA 92834-6806

SANTA ANA
CA 926
30 AUG '19
FWD

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LN 8/31/19

Charles Alvarez, Council Member
32161 Avenida Los Amigos
San Juan Capistrano, CA 92675

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UN
92834-6806
92675-3702

Subject: RE: Inter-Tribal Student Council
Date: Tuesday, October 8, 2019 at 5:46:50 PM Pacific Daylight Time
From: Tiffany Clark
To: Eftychiou, Audrey
Attachments: image002.png, image003.png

Hi Audrey,

It was nice to meet with you today too.

The mailing information I have for Charles Alvarez listed below. I would suggest CSUF re-sending his AB 52 letter as soon as possible and just noting in the correspondence table it was resent and on what date.

Gabrielino-Tongva Tribe
Charles Alvarez
23454 Vanowen Street
West Hills, CA, 91307
Phone: (310) 403 - 6048
roadkingcharles@aol.com

As you noted, no one from the Acjachemen Nation is listed on the NAHC AB 52 list. As such, for the purposes of compliance with AB 52, they do not need to be contacted. If CSUF requests it, Rincon can reach out and ask Ms. Nunez if she has any information on cultural resources in the area. Any information that she provides would be included in the cultural resource report. This would be part of the information gathering effort we do for the cultural resources studies and is not considered AB 52 consultation.

Let me know if you would like to discuss this in more detail or have additional questions.

Thanks,

Tiffany

Tiffany Clark, PhD, RPA, Senior Archaeologist
Rincon Consultants, Inc.
Environmental Scientists | Planners | Engineers
213-788-4842 x194
310-210-9884 Mobile
213-357-5105 Direct
rinconconsultants.com

From: Eftychiou, Audrey [mailto:aeftychiou@Fullerton.edu]
Sent: Tuesday, October 08, 2019 3:55 PM
To: Tiffany Clark

SENDER: *COMPLETE THIS SECTION*

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Charles Alvarez
Gabrielino-Tongva Tribe
23454 Vanowen Street
West Hills, CA 91307

9590 9402 3894 8060 8294 32

2. Article Number *(Transfer from service label)*

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

☐ Agent
☐ Addressee

B. Received by *(Printed Name)*

C. Date of Delivery

D. Is delivery address different from item 1? ☐ Yes
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PS Form 3811, July 2015 PSN 7530-02-000-9053 Domestic Return Receipt

Minutes • AB 52 Consultation

October 8, 2019

Attendees:

- Sam Dunlap, Cultural Resources Director, Gabrielino Tongva Tribe
- Emil Zordilla, Director of Planning & Design/Campus Architect, Cal State Fullerton
- Anne Collins-Doehne, Principal Environmental Planner, California State University
- Tiffany Clark, Senior Archaeologist, Rincon Consultants, Inc.
- Audrey Eftychiou, Communications Specialist, Capital Programs and Facilities Management, Cal State Fullerton

Discussion:

All attendees introduced themselves. **Mr. Dunlap** is representing the Gabrielino Tongva Tribe and tribal chair Linda Candelaria. He is also contracted with Cal State Long Beach and other agencies to provide Native American and archaeological monitoring.

Emil Zordilla offered a brief description of the Campus Master Plan Preferred Option and the EIR process, including

- Project location slide
- Map of project area
- Proposed housing units
- New academic buildings
- 2-3 transit hubs, depending on bus lines
- Possible parking structure
- Increased campus headcount, from 40,000 to 46,000 (approximate)
- Increased FTEs from 25,000 to 32,000
- NOP process and EIR areas of study

Mr. Dunlap stated that he had not yet looked at the plan but that he is very familiar with the EIR process.

- The tribe's main concern would be preservation and protection of any tribal cultural resources, ensuring that they are not simply avoided but properly assessed and mitigated.
- Mitigation measures should spell out steps to be taken prior to construction.

- His questions center on Rincon's records search and any recorded sites on campus or in the vicinity.

Tiffany Clark stated that the records search, extending a half-mile from campus, showed several historic structures but no recorded archeological or tribal resources.

Mr. Dunlap would like additional information on the project area's history, waterways and topography via USGS maps, and whether any historic artifacts were recovered during previous construction projects. He noted that pre-CEQA, development may have occurred, especially in older cities, without proper protection of archaeological sites.

Ms. Clark noted that Rincon had recently completed a cultural resources study for the Eastside 2 Parking Structure, now under construction, and that post-CEQA and over the past 10 years there have been no recorded archaeological materials found during ground disturbance/construction on campus.

Mr. Dunlap:

- Explained that Gabrielino territory extends from Malibu to Laguna to Riverside/Beaumont, incorporating roughly 180 cities.
- The Gabrielino Tribe and Gabrielino Tongva Nation have asked Mr. Dunlap to voice their concerns to consulting cities and agencies that they are surrounded by other tribes and that encroachment is an issue.
- There are five Gabrielino tribes in the region. From the original two, a third was formed in 1995, a fourth was formed in 2006 and a fifth was formed in 2008. Mr. Dunlap works with three of the five.
- Tongva is a native word that means "the people," and their vision is to nurture unity within the Gabrielino community.
- The newest faction, the Gabrielino Kizh Nation, "hates" everyone and attempts to discredit other tribes, including the Tongva Nation. Kizh Nation attempts to convince lead agencies to adopt mitigation measures that require engagement/consultation solely with them.
- Mitigation measures specific to one tribe are a problem. Mr. Dunlap recommends generic language that specifies engagement of a monitor "from the Gabrielino tribe/community" within the project area, not from any specific tribal faction.
- The Kizh Nation has used AB 52 as a mechanism to monopolize native monitoring, which has become a competitive enterprise because it generates revenue and employment.
- Mr. Dunlap stated that he offers a competitive rate, "but if the project doesn't need monitoring, I don't want to waste anyone's money."
- The Juanenos' northern border, established through ethnographic study, is Aliso Creek, but the tribe has steadily moved north into Orange County. The Juanenos

may want to consult, but they “have no business here.” Mr. Dunlap represents the Juanenos “when the issue is just” and a claim to the territory is valid.

- It is possible to include multiple monitors from more than one tribe. Examples include Bolsa Chica Mesa in Huntington Beach and the current Mid County Parkway Project. Riverside County Transportation Commission is alternating five tribal monitors week by week.

Emil Zordilla asked whether Mr. Dunlap has ever suggested consulting with another tribe for monitoring during construction, or whether tribes are specified up front.

Mr. Dunlap stated that certain people specialize in certain areas, such as language, basket weaving, tool making, oral history, spirituality, ceremonies and traditions, so they may be called upon for advice as needed.

Tiffany Clark noted that if/when cultural resources are found, the lead agency can bring back the groups who have been consulted and build this in to mitigation to make sure all stakeholders have a voice.

Mr. Dunlap inquired about ground disturbance, geotech studies or boring samples – the first three to four feet of soil and sediment are usually indicative of any cultural resources. If a site has been graded and soil redeposited elsewhere, it is still important.

Anne Collins-Doehne noted that artificial fill may be sensitive depending on its origin.

Mr. Dunlap explained that, in contrast with the Gabrielinos, the Kizh definition of ground disturbance is “boiler plate,” very conservative and shallow. The definition should vary by project and site. A conservative definition spurs unnecessary mitigation that wastes the client’s money.

Emil Zordilla asked what the process would be if the lead agency didn’t agree with a tribe’s suggested mitigation measures.

Anne Collins-Doehne noted that the law specifies that if there is a disagreement, the tribe must provide evidence.

Mr. Dunlap agreed that AB 52 requires consultation only. “Let’s say this corner is highly sacred to the tribe and should be 100% monitored by a tribe or two. I think that would be unreasonable and you would have to call me out on it.”

- Claims are often based on oral histories, but evidence is hard to come by.
- Some tribes regard native monitoring as a good opportunity to make money.
- None of the Gabrielino groups have been intact and continuous for more than 30 years, so there is little documented information available.

Tiffany Clark will provide Mr. Dunlap with topographical maps overlaid with the project site.

Minutes • AB 52 Consultation

November 13, 2019

Attendees:

- Andrew Salas, Gabrieleno-Kizh Nation
- Matthew Teutimez, Gabrieleno-Kizh Nation
- Lexie Salas, Gabrieleno Band of Mission Indians
- Emil Zordilla, Director of Planning & Design/Campus Architect, Cal State Fullerton
- Anne Collins-Doehne, Principal Environmental Planner, California State University
- Tiffany Clark, Senior Archaeologist, Rincon Consultants, Inc.
- Audrey Eftychiou, Communications Specialist, Capital Programs and Facilities Management, Cal State Fullerton

Discussion:

All attendees introduced themselves. **Andrew Salas** explained his lineage, as son of chief and spiritual leader Ernie Salas, with ties to the San Gabriel Mission Indians as well as some of the area's original Spanish and Mexican landowners and other prominent figures. **Matt Teutimez** is his cousin, as well as the tribal biologist and head of its cultural department. **Lexie Salas** is Andrew's daughter.

Andrew Salas explained his tribe's interest in Cal State Fullerton as part of its ancestral area. He expanded on his knowledge of area history, sites and common names.

Emil Zordilla gave an overview of the master plan update and the types of academic spaces and amenities that may be added over the next 30 years, contingent on funding, to accommodate growth.

Tiffany Clark noted that her firm completed a records search and archaeological report, but no tribal resources were identified, only historic structures. The land was used for orange groves immediately prior to the university's construction.

Matt Teutimez noted that the land was occupied by humans for thousands of years before the orange groves. "We help fill in those gaps" of knowledge, he said. His "guesstimate" is that "there was an entire civilization under this campus" due to nearby resources that would attract and support tribes, including oil, level landscapes, unique

ocean resources, water sources and springs, and trade corridors leading throughout the Southwest.

His tribe's concern is primarily with any ground disturbance. He believes tribal resources may have been disturbed during pre-AB 52 construction. There is a "high potential to find resources."

He noted that during today's construction, soil is removed and replaced with imported, compacted soil. During 1960s construction, soil may have been removed and then returned; tribal resources may still be in place, but never recognized. He reported that tribal resources have been found at nearby Hillcrest Park, Chapman University, UC Irvine, Cal State Long Beach and during the 405 Freeway widening.

"Our main goal is to come here and work with you guys, not against you. Our purpose of consulting is that (tribal resources are) meaningful to us. We want to protect the little bit of history we have out there."

Emil Zordilla shared that Cal State Fullerton concurs and that the university's goal is to mitigate any disturbances and discuss best practices.

Matthew Teutimez shared topographical maps of the Fullerton region and Coyote Hills, showing geographical features, plus hand-drawn missionary routes, village locations, battlefields and trade routes to "back up our oral history." **Mr. Teutimez** and **Mr. Salas** described the natural resources specific to the region (cottonwood, sagebrush, mugwort, etc.) used by native groups, as well as potential seasonal living areas near local hills and waterways. Mr. Salas includes these landscapes within the definition of "tribal resources."

Emil Zordilla asked how the tribe usually addresses mitigation.

Matthew Teutimez said the tribe seeks to include mitigation in any driving document that calls for on-site monitoring of any ground-disturbing activities.

Andrew Salas indicated that the tribe's first priority is avoidance. Second would be mitigation, or an alternative. **Mr. Salas** noted that his group now provides professional reports on tribal resources, prepared at the conclusion of monitoring, using the CEQA structure. He provided an example from Chapman University, documenting the discovery and significance of a 10 cm shaman stone found during construction.

Emil Zordilla thanked the group for their information and stories and invited them to send potential mitigation language for consideration.

Subject: Re: FW: [External] Re: CSU Fullerton AB 52 Consultation Information Request - Historic Period Maps

Date: Thursday, January 16, 2020 at 2:59:16 PM Pacific Standard Time

From: Administration Gabrieleno

To: Davenport, Helen

CC: Eftychiou, Audrey, Zordilla, Emil

Attachments: Kizh Nation Mitigation Measures 01_2020.pdf

Thank you for your email Helen

Our Tribal government would like to provide the attached mitigation in order to protect our Tribal cultural resources under AB52 law. If you have any questions feel free to contact us.

Thank you

Thank you

Admin Specialist
Gabrieleno Band of Mission Indians - Kizh Nation
PO Box 393
Covina, CA 91723
Office: 844-390-0787
website: www.gabrielenoindians.org

Attachments area

On Thu, Jan 16, 2020 at 9:09 AM Davenport, Helen <hdavenport@fullerton.edu> wrote:

> Good morning, Mr. Salas,
>
> I am following up on a voice mail I left you yesterday. Thanks again for meeting with us on the Campus Master Plan. Our AB52 consultation period is closing and we wanted to make sure you had the opportunity to provide any language to be considered. If so, please kindly submit by this Friday, January 17.
>
> Thanks again for your participation. If you have any questions, please call me at (657) 278-7419.
>
> Helen

Gabrieleno Band of Mission Indians – Kizh Nation

Protection of Tribal Cultural Resources (TCRs)

Most Important Things for Agencies to Know About AB52:

- An EIR, MND, or ND can not be certified until AB-52 tribal consultation has concluded.
- Agreed mitigation measures with the tribe, MUST be recommended for inclusion in the environmental document.
- Signature confirming acceptance of these mitigation measures recommended by our Tribal Government is required within 14 days of receipt to conclude AB52 consultation.

Tribal Cultural Resources Mitigation Measures within Kizh Nation Tribal Territory:

Note: To avoid compliance issues with the following laws, all Native American Monitoring shall be conducted by a documented lineal descendant from the ancestral Tribe of the project area (NAGPRA Law 10.14)

- The Native American Graves Protection and Repatriation Act (NAGPRA), Public Law-101-601, 25 U.S.C. 3001 et seq., 104 Stat. 3048.
- CEQA Guidelines Section15064.5, PRC 5097.98 (d)(1).
- The United Nations Declaration on the Rights of Indigenous Peoples (UNDRIP).

If you are receiving these measures, The Gabrieleño Band of Mission Indians Kizh -Nation are the direct lineal descendants of your project area. The Kizh Nation ONLY responds and consults on projects within their ANCESTRAL tribal territory. Therefore, to remain in compliance with above referenced laws and to enable our Tribe with the ability to protect and preserve our last remaining and irreplaceable Tribal Cultural Resources, it is recommended that the project applicant retain a qualified professional tribal monitor/consultant from the Gabrieleño Band of Mission Indians Kizh -Nation. The Kizh Nation possesses Tribal archives including documented historical information as well as multiple members who possess unique knowledge derived from oral tradition passed down through generations of the Tribe in order to provide the expertise needed to identify whether a project is located within a culturally sensitive area given its proximity to village areas, commerce areas, recreation areas, ceremonial areas, and burial locations.

Native American Heritage Commission (NAHC) Guidelines for Native American Monitors/Consultants (approved 9/13/05): By acting as a liaison between Native American, archaeologist, developers, contactors and public agency, a Native American monitor/consultant can ensure that cultural features are treated appropriately from the Native American point of view. This can help others involved in a project to coordinate mitigation measures. These guidelines are intended to provide prospective monitors/consultants, and people who hire monitors/consultants, with an understanding of the scope and extant of knowledge that should be expected.

Mitigation Guidelines for Tribal Cultural Resources (TCRs): CEQA now defines TCRs as an independent element separate from archaeological resources. Environmental documents shall address a separate Tribal Cultural Resources section that includes a thorough analysis of the impacts to only TCRs and includes separate and independent mitigation measures created with tribal input under AB-52 consultations. Therefore, all agreements, mitigation, and conditions of approval regarding TCRs shall be handled solely with the Tribal Government and conversely all agreements, mitigation, and conditions of approval regarding Archaeological Resources shall be handled by an Archaeological resource company.

MITIGATION MEASURES

Retain a Native American Monitor/Consultant: The Project Applicant shall be required to retain and compensate for the services of a Tribal monitor/consultant who is both approved by the Gabrieleño Band of Mission Indians-Kizh Nation Tribal Government and is listed under the NAHC's Tribal Contact list for the area of the project location. This list is provided by the NAHC. The monitor/consultant will only be present on-site during the construction phases that involve ground disturbing activities. Ground disturbing activities are defined by the Gabrieleño Band of Mission Indians-Kizh Nation as activities that may include, but are not limited to, pavement removal, pot-holing or auguring, grubbing, tree removals, boring, grading, excavation, drilling, and trenching, within the project area. The Tribal Monitor/consultant will complete daily monitoring logs that will provide descriptions of the day's activities, including construction activities, locations, soil, and any cultural materials identified. The on-site monitoring shall end when the project site grading and excavation activities are completed, or when the Tribal Representatives and monitor/consultant have indicated that the site has a low potential for impacting Tribal Cultural Resources.

Unanticipated Discovery of Tribal Cultural and Archaeological Resources: Upon discovery of any tribal cultural or archaeological resources, cease construction activities in the immediate vicinity of the find until the find can be assessed. All tribal cultural and archaeological resources unearthed by project construction activities shall be evaluated by the qualified archaeologist and tribal monitor/consultant approved by the Gabrieleño Band of Mission Indians-Kizh Nation. If the resources are Native American in origin, the Gabrieleño Band of Mission Indians-Kizh Nation shall coordinate with the landowner regarding treatment and curation of these resources. Typically, the Tribe will request preservation in place or recovery for educational purposes. Work may continue on other parts of the project while evaluation and, if necessary, additional protective mitigation takes place (CEQA Guidelines Section15064.5 [f]). If a resource is determined by the qualified archaeologist to constitute a "historical resource" or "unique archaeological resource", time allotment and funding sufficient to allow for implementation of avoidance measures, or appropriate mitigation, must be available. The treatment plan established for the resources shall be in accordance with CEQA Guidelines Section 15064.5(f) for historical resources.

Public Resources Code Sections 21083.2(b) for unique archaeological resources. Preservation in place (i.e., avoidance) is the preferred manner of treatment. If preservation in place is not feasible, treatment may include implementation of archaeological data recovery excavations to remove the resource along with subsequent laboratory processing and analysis. All Tribal Cultural Resources shall be returned to the Tribe. Any historic archaeological material that is not Native American in origin shall be curated at a public, non-profit institution with a research interest in the materials, such as the Natural History Museum of Los Angeles County or the Fowler Museum, if such an institution agrees to accept the material. If no institution accepts the archaeological material, they shall be offered to the Tribe or a local school or historical society in the area for educational purposes.

Unanticipated Discovery of Human Remains and Associated Funerary Objects:
Native American human remains are defined in PRC 5097.98 (d)(1) as an inhumation or cremation, and in any state of decomposition or skeletal completeness. Funerary objects, called associated grave goods in PRC 5097.98, are also to be treated according to this statute. Health and Safety Code 7050.5 dictates that any discoveries of human skeletal material shall be immediately reported to the County Coroner and excavation halted until the coroner has determined the nature of the remains. If the coroner recognizes the human remains to be those of a Native American or has reason to believe that they are those of a Native American, he or she shall contact, by telephone within 24 hours, the Native American Heritage Commission (NAHC) and PRC 5097.98 shall be followed.

Resource Assessment & Continuation of Work Protocol:
Upon discovery of human remains, the tribal and/or archaeological monitor/consultant/consultant will immediately divert work at minimum of 150 feet and place an exclusion zone around the discovery locationl. The monitor/consultant(s) will then notify the Tribe, the qualified lead archaeologist, and the construction manager who will call the coroner. Work will continue to be diverted while the coroner determines whether the remains are human and subsequently Native American. The discovery is to be kept confidential and secure to prevent any further disturbance. If the finds are determined to be Native American, the coroner will notify the NAHC as mandated by state law who will then appoint a Most Likely Descendent (MLD).

Kizh-Gabrieleno Procedures for burials and funerary remains:
If the Gabrieleno Band of Mission Indians – Kizh Nation is designated MLD, the Koo-nas-gna Burial Policy shall be implemented. To the Tribe, the term "human remains" encompasses more than human bones. In ancient as well as historic times, Tribal Traditions included, but were not limited to, the preparation of the soil for burial, the burial of funerary objects with the deceased, and the ceremonial burning of human remains. The prepared soil and cremation soils are to be treated in the same manner as bone fragments that remain intact. Associated funerary objects are objects that, as part of the death rite or ceremony of a culture, are reasonably believed to have been placed with individual human remains either at the time of death or later; other items made exclusively for burial purposes or to contain human remains can also be considered as associated funerary objects.

Treatment Measures:
Prior to the continuation of ground disturbing activities, the land owner shall arrange a designated site location within the footprint of the project for the respectful reburial of the human remains and/or ceremonial objects. In the case where discovered human remains cannot be fully documented and recovered on the same day, the remains will be covered with muslin cloth and a steel plate that can be moved by heavy equipment placed over the excavation opening to protect the remains. If this type of steel plate is not available, a 24-hour guard should be posted outside of working hours. The Tribe will make every effort to recommend diverting the project and keeping the remains in situ and protected. If the project cannot be diverted, it may be determined that burials will be removed. The Tribe will work closely with the qualified archaeologist to ensure that the excavation is treated carefully, ethically and respectfully. If data recovery is approved by the Tribe, documentation shall be taken which includes at a minimum detailed descriptive notes and sketches. Additional types of documentation shall be approved by the Tribe for data recovery purposes. Cremations will either be removed in bulk or by means as necessary to ensure completely recovery of all material. If the discovery of human remains includes four or more burials, the location is considered a cemetery and a separate treatment plan shall be created. Once complete, a final report of all activities is to be submitted to the Tribe and the NAHC. The Tribe does NOT authorize any scientific study or the utilization of any invasive and/or destructive diagnostics on human remains.

Each occurrence of human remains and associated funerary objects will be stored using opaque cloth bags. All human remains, funerary objects, sacred objects and objects of cultural patrimony will be removed to a secure container on site if possible. These items should be retained and reburied within six months of recovery. The site of reburial/repatriation shall be on the project site but at a location agreed upon between the Tribe and the landowner at a site to be protected in perpetuity. There shall be no publicity regarding any cultural materials recovered.

Professional Standards: Archaeological and Native American monitoring and excavation during construction projects will be consistent with current professional standards. All feasible care to avoid any unnecessary disturbance, physical modification, or separation of human remains and associated funerary objects shall be taken. Principal personnel must meet the Secretary of Interior standards for archaeology and have a minimum of 10 years of experience as a principal investigator working with Native American archaeological sites in southern California. The Qualified Archaeologist shall ensure that all other personnel are appropriately trained and qualified.

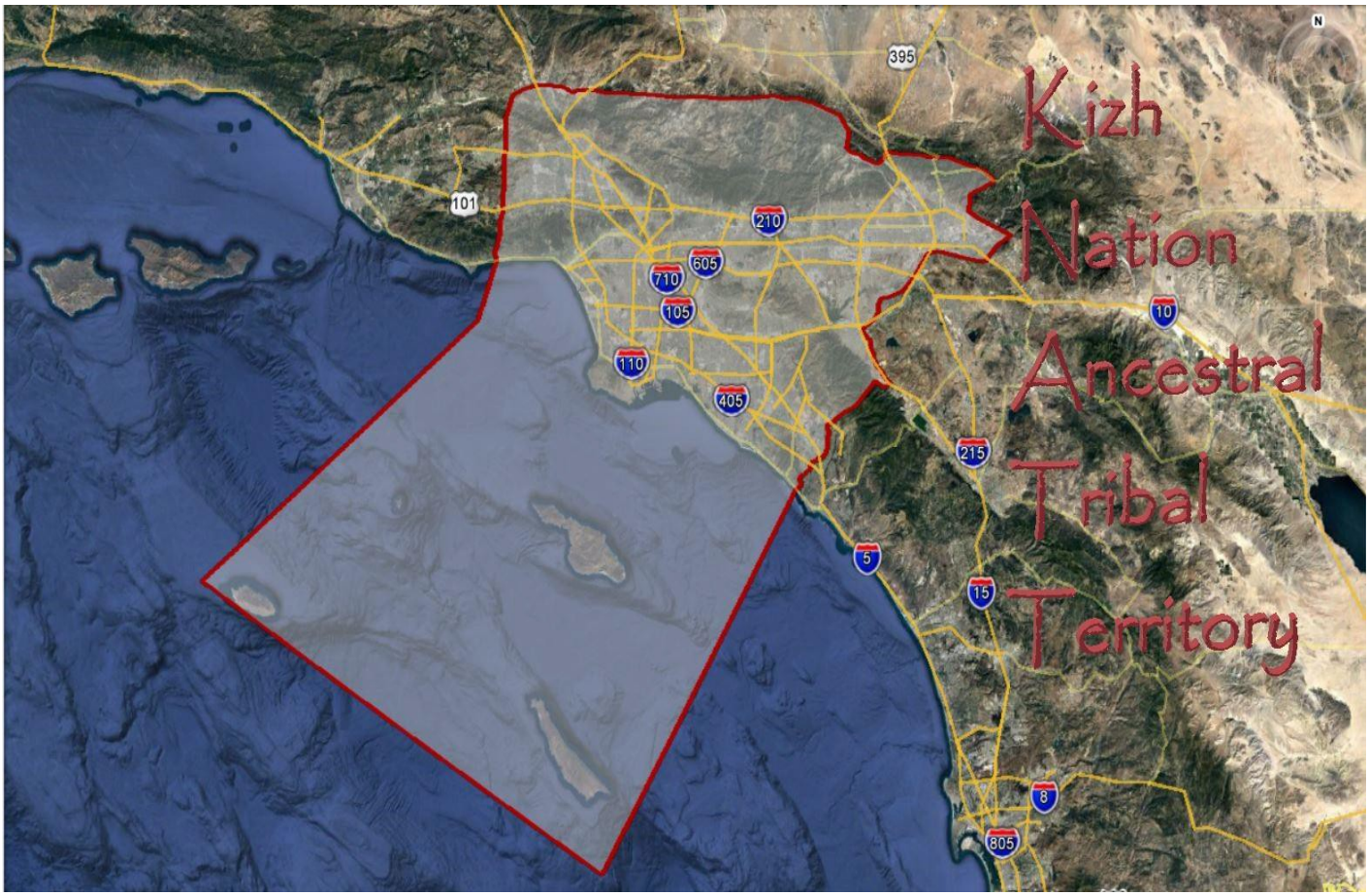
Acceptance of Tribal Government Recommended Mitigation Measures:

By _____ Date: _____
Lead Agency Representative Signature

Revised: January 2020

Attachment A

Kizh Nation Ancestral Tribal Territory extended along the coast from Malibu Creek in Los Angeles County down to Aliso Creek in Orange County and encompassed the Channel Islands of Catalina (Pimugna), San Nicolas (Haraasnga), and San Clemente (Kiinkenga). Our inland border was the San Gabriel Mountains (Hidakupa) and eastwardly our territory extended to parts of San Bernardino (Waatsngna), Orange, and Riverside counties.



Subject: Re: [External] Re: CSU Fullerton AB 52 Consultation Information Request - Historic Period Maps
Date: Thursday, January 23, 2020 at 11:17:30 AM Pacific Standard Time
From: Eftychiou, Audrey
To: Administration Gabrieleno
CC: Zordilla, Emil, Davenport, Helen
Attachments: image001.png

Hello, Mr. Salas –

Thank you for your submission. We will review these draft mitigation measures and provide revised mitigation measures, if needed, which will conclude consultation under AB 52.

We appreciate your collaboration and support for this project.

Audrey Eftychiou (*eff '-tuh-hue*)
Communications Specialist
Capital Programs & Facilities Management
T: 657-278-4155 | **E:** aeftychiou@fullerton.edu
800 N. State College Blvd., FMA-120, Fullerton, CA 92831
facilities.fullerton.edu

From: Administration Gabrieleno <admin@gabrielenoindians.org>
Date: Thursday, January 16, 2020 at 2:59 PM
To: "Davenport, Helen" <hdavenport@fullerton.edu>
Cc: "Eftychiou, Audrey" <aeftychiou@Fullerton.edu>, "Zordilla, Emil" <ezordilla@Fullerton.edu>
Subject: Re: FW: [External] Re: CSU Fullerton AB 52 Consultation Information Request - Historic Period Maps

Thank you for your email Helen

Our Tribal government would like to provide the attached mitigation in order to protect our Tribal cultural resources under AB52 law. If you have any questions feel free to contact us.

Thank you

Thank you

Admin Specialist
Gabrieleno Band of Mission Indians - Kizh Nation
PO Box 393
Covina, CA 91723
Office: 844-390-0787
website: www.gabrielenoindians.org

Attachments area

On Thu, Jan 16, 2020 at 9:09 AM Davenport, Helen <hdavenport@fullerton.edu> wrote:

> Good morning, Mr. Salas,
>
> I am following up on a voice mail I left you yesterday. Thanks again for meeting with us on the Campus Master Plan. Our AB52 consultation period is closing and we wanted to make sure you had the opportunity to provide any language to be considered. If so, please kindly submit by this Friday, January 17.
>
> Thanks again for your participation. If you have any questions, please call me at (657) 278-7419.
>
> Helen

Subject: Fwd: CSU Fullerton Master Plan Update Project, Orange County, CA
Date: Tuesday, September 17, 2019 at 4:10:32 PM Pacific Daylight Time
From: Zordilla, Emil
To: Eftychiou, Audrey
CC: bweatherby@rinconconsultants.com, Davenport, Helen, Grater, Madison
Attachments: CSU Fullerton Master Plan Update Project, Orange County, CA.pdf, ATT00001.htm

Helen,
Please schedule a consultation appointment. Thank you.

Emil Zordilla AIA, MBA
Director of Planning and Design
California State University Fullerton
work (657) 278-3735 cell (714) 461-1737
ezordilla@fullerton.edu

Begin forwarded message:

> **From:** Administration Gabrieleno <admin@gabrielenoindians.org>
> **Date:** September 17, 2019 at 3:02:09 PM PDT
> **To:** ezordilla@fullerton.edu
> **Subject: CSU Fullerton Master Plan Update Project, Orange County, CA**
>
> please see attachment
>
> Admin Specialist
> Gabrieleno Band of Mission Indians - Kizh Nation
> PO Box 393
> Covina, CA 91723
> Office: 844-390-0787
> website: www.gabrielenoindians.org
>
> Attachments area

Subject: Re: [External] Re: CSU Fullerton AB 52 Consultation Information Request - Historic Period Maps
Date: Thursday, January 23, 2020 at 11:22:16 AM Pacific Standard Time
From: Eftychiou, Audrey
To: Sam Dunlap, Davenport, Helen
CC: samdunlap@earthlink.net, Zordilla, Emil
Attachments: image001.png

Hello, Mr. Dunlap –

Thank you very much for your contribution. We will review the suggested mitigation measures and provide revised language, if needed, which will conclude consultation under AB 52.

We appreciate your collaboration and support on this project.

Audrey Eftychiou

Audrey Eftychiou (*eff '-tuh-hue*)
Communications Specialist
Capital Programs & Facilities Management
T: 657-278-4155 | **E:** aeftychiou@fullerton.edu
800 N. State College Blvd., FMA-120, Fullerton, CA 92831
facilities.fullerton.edu

From: Sam Dunlap <tongvatcr@gmail.com>
Date: Friday, January 17, 2020 at 4:33 PM
To: "Davenport, Helen" <hdavenport@fullerton.edu>
Cc: "samdunlap@earthlink.net" <samdunlap@earthlink.net>, "Eftychiou, Audrey" <aeftychiou@Fullerton.edu>, "Zordilla, Emil" <ezordilla@Fullerton.edu>
Subject: Re: FW: [External] Re: CSU Fullerton AB 52 Consultation Information Request - Historic Period Maps

Dear Ms Davenport,

I apologize for such a late response to the AB52 consultation request. I have reviewed the information sent to me regarding the potential impacts to Tribal cultural resources on the CSU Fullerton campus as it relates to future development on campus properties.

I believe it would be appropriate to include a cultural resource monitoring program within the Master Plan. I would suggest that a Tribal cultural resource monitor that is culturally affiliated to the project area, such as the Gabrielino Tongva Tribe, be considered to be included in such a program.

I would be happy to discuss the implementation of this process when appropriate.

Sincerely,

Sam Dunlap
Cultural Resource Director
Gabrielino Tongva Tribe

On Thu, Jan 16, 2020, 8:58 AM Davenport, Helen <hdavenport@fullerton.edu> wrote:

> Good morning, Mr. Dunlap,
>
> I am following up on a voice mail I left you yesterday. Thanks again for meeting with us on the Campus Master Plan. Our AB52 consultation period is closing and we wanted to make sure you had the opportunity to provide any language to be considered. If so, please kindly submit by this Friday, January 17.
>
> Thanks again for your participation. If you have any questions, please call me at (657) 278-7419.
>
> Helen
>
> ---
>
> **From:** "Eftychiou, Audrey" <aeftychiou@Fullerton.edu>
> **Date:** Friday, November 15, 2019 at 1:30 PM
> **To:** samdunlap <samdunlap@earthlink.net>
> **Cc:** "Grater, Madison" <mgrater@fullerton.edu>, "Davenport, Helen" <hdavenport@fullerton.edu>, "Zordilla, Emil" <ezordilla@Fullerton.edu>, Tiffany Clark <tclark@rinconconsultants.com>
> **Subject:** Re: [External] Re: CSU Fullerton AB 52 Consultation Informataion Request - Historic Period Maps
>
> Hello, Sam! I hope you're doing well.
>
> Please let us know if you need any other materials from us. Would you like to provide any specific language for consideration?
>
> Thank you,
> Audrey
>
> ---
>
> **From:** samdunlap <samdunlap@earthlink.net>

Date: Monday, November 11, 2019 at 1:33 PM
To: Tiffany Clark <tclark@rinconconsultants.com>
Cc: "Grater, Madison" <mgrater@fullerton.edu>, "Davenport, Helen" <hdavenport@fullerton.edu>, "Zordilla, Emil" <ezordilla@Fullerton.edu>, "Eftychiou, Audrey" <aeftychiou@Fullerton.edu>
Subject: [External] Re: CSU Fullerton AB 52 Consultation Informataion Request - Historic Period Maps

Thank you Tiffany.

Sent via the Samsung Galaxy A10e, an AT&T 4G LTE smartphone

-------- Original message --------
From: Tiffany Clark <tclark@rinconconsultants.com>
Date: 11/11/19 12:36 PM (GMT-08:00)
To: "'samdunlap@earthlink.net'" <samdunlap@earthlink.net>
Cc: "Grater, Madison" <mgrater@fullerton.edu>, "Davenport, Helen" <hdavenport@fullerton.edu>, "Zordilla, Emil" <ezordilla@Fullerton.edu>, "'Eftychiou, Audrey'" <aeftychiou@Fullerton.edu>
Subject: CSU Fullerton AB 52 Consultation Informataion Request - Historic Period Maps

Hi Sam,

I pulled together the historic map information you requested last month as part of the AB 52 consultation meeting at California State University Fullerton for the CSUF Master Development Plan Project.

The folder I have attached contains five maps that cover the period between 1894 and 1964. The location of the project area is shown in blue on each map. Please let me know if you have any questions or require additional information.

Thanks,

Tiffany

Tiffany Clark, PhD, RPA, Senior Archaeologist
Rincon Consultants, Inc.
Environmental Scientists | Planners | Engineers
213-788-4842 x194
310-210-9884 Mobile
213-357-5105 Direct
rinconconsultants.com
Error! Filename not specified.

Subject: FW: AB 52 Consultation, CSU Fullerton Master Plan Update Project, Orange County, California
Date: Thursday, September 12, 2019 at 9:40:35 AM Pacific Daylight Time
From: Zordilla, Emil
To: 'Brenna Weatherby'
CC: Eftychiou, Audrey, Grater, Madison

Hi Brenna,
Can you please advise on a response for this.
Does the consultation have to be in-person and have to be recorded? What would be the agenda for consultation?

Emil Zordilla, AIA, MBA, LEED AP
Director of Planning and Design – Campus Architect
Capital Programs & Facilities Management

From: Sam Dunlap [mailto:tongvatcr@gmail.com]
Sent: Thursday, September 12, 2019 9:22 AM
To: Zordilla, Emil <ezordilla@Fullerton.edu>
Subject: AB 52 Consultation, CSU Fullerton Master Plan Update Project, Orange County, California

Good morning Mr Zordilla,

In response to the letter dated August 30th sent to Linda Candelaria, Chairperson of the Gabrielino Tongva Tribe, I am requesting tribal consultation on the proposed project per AB 52.

Please contact me at your earliest convenience to set up an appointment.

Thank you,

Sam Dunlap
Cultural Resource Director
Gabrielino Tongva Tribe
tongvatcr@gmail.com
909-262-9351 mobile

CALIFORNIA STATE UNIVERSITY
FULLERTON

Division of Administration and Finance
Capital Programs and Facilities Management
P.O. Box 6806, Fullerton, CA 92834-6806

February 28, 2020

Andrew Salas, Chairperson
Gabrieleño Band of Mission Indians – Kizh Nation
PO Box 393
Covina, CA 91723

RE: Termination of Assembly Bill 52 Consultation for the California State University, Fullerton Campus Master Plan Project, Orange County, California

Dear Chairperson Salas:

The California State University, Fullerton mailed a letter to your office under Assembly Bill (AB) 52 on August 30, 2019 regarding the California State University, Fullerton Campus Master Plan Project. The letter was intended to notify you of the project so that you may request to consult on the project under AB 52 should you choose to do so. The California State University, Fullerton received a request from your office for consultation under AB 52 for the project dated September 12, 2019, and consultation was held on November 13, 2019.

Based on the discussions during the November 2019 meeting and follow up correspondence, California State University, Fullerton is proposing to add the following mitigation measures to the Draft EIR:

Conduct Native American Monitoring: Due to the potential to encounter previously undocumented Tribal Cultural Resources within the vicinity of Fullerton Creek, Native American monitors from tribes culturally affiliated to the project area shall be invited by California State University Fullerton, to participate in projects undertaken north of Gymnasium Campus Drive that involve substantial ground disturbance, such as activities extending to previously undisturbed soils, disturbances within 200 feet of known archaeological sites, and/or water sources. California State University, Fullerton shall determine on a project-by-project basis if the extent of proposed ground disturbing activities warrants Native American monitoring. The Native American monitor shall have the authority to temporarily divert, redirect or halt the ground disturbance activities to allow identification, evaluation, and potential recovery of cultural resources.

Unanticipated Discovery of Tribal Cultural Resources: In the event that cultural resources of Native American origin are identified during construction, all earth-disturbing work in the vicinity of the find shall be temporarily suspended or redirected until an archaeologist meeting the Secretary of the Interior's Professional Qualifications Standards has evaluated the nature and significance of the find and an appropriate Native American representative, based on the nature of the find, is consulted. If California State University, Fullerton determines that the resource is a Tribal Cultural Resource and thus significant under CEQA, a mitigation plan shall be prepared and implemented in accordance with state guidelines and in consultation with Native American groups. The plan shall include avoidance of the resource or, if avoidance of the resource is infeasible, the plan shall outline the appropriate treatment and data recovery plan in coordination with the archeologist and the appropriate Native American tribal representative. The Native American monitor and consulting tribe(s) will be provided an opportunity to participate in the documentation and evaluation of the find. If a data recovery plan and treatment of the unanticipated discovery is required, then the consulting tribe(s) will be provided an opportunity to review and provide input on the plan and treatment.

This letter is intended to formally notify you that the California State University, Fullerton has terminated AB 52 consultation with the Gabireleño Band of Mission Indians – Kizh Nation Tribe regarding the California State University, Fullerton Campus Master Plan project. We look forward to consulting with you on future projects.

Please contact me at 657-278-3735 if you have questions regarding this letter or the consultation process.

Sincerely,

Emil Zordilla
Director, Office of Planning and Design
California State University, Fullerton
800 N. State College Blvd., T-2000
Fullerton, CA 92831-3547

Enclosure: Project Location Map

CALIFORNIA STATE UNIVERSITY
FULLERTON

Division of Administration and Finance
Capital Programs and Facilities Management
P.O. Box 6806, Fullerton, CA 92834-6806

February 28, 2020

Anthony Morales, Chairperson
Gabrieleño/Tongva San Gabriel Band of Mission Indians
P.O. Box 693
San Gabriel, California 91778

RE: Termination of Assembly Bill 52 Consultation for the California State University, Fullerton Campus Master Plan Project, Orange County, California

Dear Chairperson Morales:

The California State University, Fullerton mailed a letter to your office under Assembly Bill (AB) 52 on August 30, 2019 regarding the California State University, Fullerton Campus Master Plan project. The letter was intended to notify you of the project so that you may request to consult on the project under AB 52 should you so choose.

Under AB 52, the California State University, Fullerton has 30 days to schedule a meeting with a tribe upon receipt of a written request for consultation. The agency has reached out to your office during this 30-day period to schedule a consultation meeting with your organization. The California State University, Fullerton has received no response from your office regarding these attempts to schedule a consultation meeting, and the 30-day scheduling period ended on September 30, 2019. The California State University, Fullerton has demonstrated a good faith effort to open consultation with your organization through our attempts to reach you during the 30-day scheduling period, and now considers our consultation obligations under AB 52 to have been met. No further attempts to schedule a consultation meeting with the Gabrieleño/Tongva San Gabriel Band of Mission Indians will be made.

This letter is intended to formally notify you that the California State University, Fullerton has terminated AB 52 consultation with the Gabrieleño/Tongva San Gabriel Band of Mission Indians regarding the California State University, Fullerton Campus Master Plan project. We look forward to consulting with you on future projects.

Please contact me at 657-278-3735 if you have questions regarding this letter or the consultation process.

Sincerely,

Emil Zordilla
Director, Office of Planning and Design
California State University, Fullerton
800 N. State College Blvd., T-2000
Fullerton, CA 92831-3547

Enclosure: Project Location Map

CALIFORNIA STATE UNIVERSITY
FULLERTON

Division of Administration and Finance
Capital Programs and Facilities Management
P.O. Box 6806, Fullerton, CA 92834-6806

February 28, 2020

Sandonne Goad, Chairperson
Gabrieliño/Tongva Nation
106 ½ Judge John Aiso Street #231
Los Angeles, California 90012

RE: Termination of Assembly Bill 52 Consultation for the California State University, Fullerton Campus Master Plan Project, Orange County, California

Dear Chairperson Goad:

The California State University, Fullerton mailed a letter to your office under Assembly Bill (AB) 52 on August 30, 2019 regarding the California State University, Fullerton Campus Master Plan project. The letter was intended to notify you of the project so that you may request to consult on the project under AB 52 should you so choose.

Under AB 52, the California State University, Fullerton has 30 days to schedule a meeting with a tribe upon receipt of a written request for consultation. The agency has reached out to your office during this 30-day period to schedule a consultation meeting with your organization. The California State University, Fullerton has received no response from your office regarding these attempts to schedule a consultation meeting, and the 30-day scheduling period ended on September 30, 2019. The California State University, Fullerton has demonstrated a good faith effort to open consultation with your organization through our attempts to reach you during the 30-day scheduling period, and now considers our consultation obligations under AB 52 to have been met. No further attempts to schedule a consultation meeting with the Gabrieliño/Tongva Nation will be made.

This letter is intended to formally notify you that the California State University, Fullerton has terminated AB 52 consultation with the Gabrieliño/Tongva Nation regarding the California State University, Fullerton Campus Master Plan project. We look forward to consulting with you on future projects.

Please contact me at 657-278-3735 if you have questions regarding this letter or the consultation process.

Sincerely,

Emil Zordilla
Director, Office of Planning and Design
California State University, Fullerton
800 N. State College Blvd., T-2000
Fullerton, CA 92831-3547

Enclosure: Project Location Map

CALIFORNIA STATE UNIVERSITY
FULLERTON

Division of Administration and Finance
Capital Programs and Facilities Management
P.O. Box 6806, Fullerton, CA 92834-6806

February 28, 2020

Robert Dorame, Chairperson
Gabrieleño/Tongva Indians of California Tribal Council
P.O. Box 490
Bellflower, California 90707

RE: Termination of Assembly Bill 52 Consultation for the California State University, Fullerton Campus Master Plan Project, Orange County, California

Dear Chairperson Dorame:

The California State University, Fullerton mailed a letter to your office under Assembly Bill (AB) 52 on August 30, 2019 regarding the California State University, Fullerton Campus Master Plan project. The letter was intended to notify you of the project so that you may request to consult on the project under AB 52 should you so choose.

Under AB 52, the California State University, Fullerton has 30 days to schedule a meeting with a tribe upon receipt of a written request for consultation. The agency has reached out to your office during this 30-day period to schedule a consultation meeting with your organization. The California State University, Fullerton has received no response from your office regarding these attempts to schedule a consultation meeting, and the 30-day scheduling period ended on September 30, 2019. The California State University, Fullerton has demonstrated a good faith effort to open consultation with your organization through our attempts to reach you during the 30-day scheduling period, and now considers our consultation obligations under AB 52 to have been met. No further attempts to schedule a consultation meeting with your tribe will be made.

This letter is intended to formally notify you that the California State University, Fullerton has terminated AB 52 consultation with your tribe regarding the California State University, Fullerton Campus Master Plan project. We look forward to consulting with you on future projects.

Please contact me at 657-278-3735 if you have questions regarding this letter or the consultation process.

Sincerely,

Emil Zordilla
Director, Office of Planning and Design
California State University, Fullerton
800 N. State College Blvd., T-2000
Fullerton, CA 92831-3547

Enclosure: Project Location Map

CALIFORNIA STATE UNIVERSITY
FULLERTON

Division of Administration and Finance
Capital Programs and Facilities Management
P.O. Box 6806, Fullerton, CA 92834-6806

February 28, 2020

Sam Dunlap
Gabrieleño/Tongva Tribe
80839 Camino Santa Juliana
Indio, California 92203

RE: Termination of Assembly Bill 52 Consultation for the California State University, Fullerton Campus Master Plan Project, Orange County, California

Dear Mr. Dunlap:

The California State University, Fullerton mailed a letter to your office under Assembly Bill (AB) 52 on August 30, 2019 regarding the California State University, Fullerton Campus Master Plan project. The letter was intended to notify you of the project so that you may request to consult on the project under AB 52 should you choose to do so. The California State University, Fullerton received a request from your office for consultation under AB 52 for the project dated September 12, 2019, and consultation was held on October 8, 2019.

Based on the discussions during the October 2019 meeting and follow up correspondence, California State University, Fullerton is proposing to add the following mitigation measures to the Draft EIR:

Conduct Native American Monitoring: Due to the potential to encounter previously undocumented Tribal Cultural Resources within the vicinity of Fullerton Creek, Native American monitors from tribes culturally affiliated to the project area shall be invited by California State University Fullerton, to participate in projects undertaken north of Gymnasium Campus Drive that involve substantial ground disturbance, such as activities extending to previously undisturbed soils, disturbances within 200 feet of known archaeological sites, and/or water sources. California State University, Fullerton shall determine on a project-by-project basis if the extent of proposed ground disturbing activities warrants Native American monitoring. The Native American monitor shall have the authority to temporarily divert, redirect or halt the ground disturbance activities to allow identification, evaluation, and potential recovery of cultural resources.

Unanticipated Discovery of Tribal Cultural Resources: In the event that cultural resources of Native American origin are identified during construction, all earth-disturbing work in the vicinity of the find shall be temporarily suspended or redirected until an archaeologist meeting the Secretary of the Interior's Professional Qualifications Standards has evaluated the nature and significance of the find and an appropriate Native American representative, based on the nature of the find, is consulted. If California State University, Fullerton determines that the resource is a Tribal Cultural Resource and thus significant under CEQA, a mitigation plan shall be prepared and implemented in accordance with state guidelines and in consultation with Native American groups. The plan shall include avoidance of the resource or, if avoidance of the resource is infeasible, the plan shall outline the appropriate treatment and data recovery plan in coordination with the archeologist and the appropriate Native American tribal representative. The Native American monitor and consulting tribe(s) will be provided an opportunity to participate in the documentation and evaluation of the find. If a data recovery plan and treatment of the unanticipated discovery is required, then the consulting tribe(s) will be provided an opportunity to review and provide input on the plan and treatment.

This letter is intended to formally notify you that the California State University, Fullerton has terminated AB 52 consultation with the Gabrieleño/Tongva Tribe regarding the California State University, Fullerton Campus Master Plan project. We invite you to provide any further comments on the Draft EIR when it is released for public review. We look forward to consulting with you on future projects.

Please contact me at 657-278-3735 if you have questions regarding this letter or the consultation process.

Sincerely,

Emil Zordilla
Director, Office of Planning and Design
California State University, Fullerton
800 N. State College Blvd., T-2000
Fullerton, CA 92831-3547

Enclosure: Project Location Map

CALIFORNIA STATE UNIVERSITY
FULLERTON

Division of Administration and Finance
Capital Programs and Facilities Management
P.O. Box 6806, Fullerton, CA 92834-6806

February 28, 2020

Charles Alvarez, Councilmember
Gabrielino-Tongva Tribe
23454 Vanowen Street
West Hills, California 91307

RE: Termination of Assembly Bill 52 Consultation for the California State University, Fullerton Campus Master Plan Project, Orange County, California

Dear Council Member Alvarez:

The California State University, Fullerton mailed a letter to your office under Assembly Bill (AB) 52 on August 30, 2019 regarding the California State University, Fullerton Campus Master Plan project. The letter was intended to notify you of the project so that you may request to consult on the project under AB 52 should you so choose.

Under AB 52, the California State University, Fullerton has 30 days to schedule a meeting with a tribe upon receipt of a written request for consultation. The agency has reached out to your office during this 30-day period to schedule a consultation meeting with your organization. The California State University, Fullerton has received no response from your office regarding these attempts to schedule a consultation meeting, and the 30-day scheduling period ended on September 30, 2019. The California State University, Fullerton has demonstrated a good faith effort to open consultation with your organization through our attempts to reach you during the 30-day scheduling period, and now considers our consultation obligations under AB 52 to have been met. No further attempts to schedule a consultation meeting with your organization will be made.

This letter is intended to formally notify you that the California State University, Fullerton has terminated AB 52 consultation with your office regarding the California State University, Fullerton Campus Master Plan project. We look forward to consulting with you on future projects.

Please contact me at 657-278-3735 if you have questions regarding this letter or the consultation process.

Sincerely,

Emil Zordilla
Director, Office of Planning and Design
California State University, Fullerton
800 N. State College Blvd., T-2000
Fullerton, CA 92831-3547

Enclosure: Project Location Map

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
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1. Article Addressed to: Charles Alvarez
Councilmember
Gabrielino Tongva
Tribe
23454 Vanowen Street
West Hills, CA 91307

9590 9402 3894 8060 8298 21

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1. Article Addressed to:
Andrew Salas, Chairperson
Gabrieleno Band of Mission
Indians-Kizh Nation
PO Box 393
Covina, CA 91723

9590 9402 3894 8060 8298 69

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1. Article Addressed to:
Anthony Morales, Chairperson
Gabrieleño/Tongva San
Gabriel Band of Mission
Indians
PO Box 693
San Gabriel, CA 91778

9590 9402 3894 8060 8298 52

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1. Article Addressed to: Robert Dorame, Chairperson
Gabrieleño/Tongva Indians of California Tribal Council
PO Box 490
Bellflower, CA 90707

9590 9402 3894 8060 8297 46

2. Article Number *(Transfer from service label)*

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1. Article Addressed to: Sandonne Goad, Chairperson
Gabrieliño/Tongva Nation
106 ½ Judge John Aiso Street #231
Los Angeles, CA 90012

9590 9402 3894 8060 8298 14

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1. Article Addressed to: Sam Dunlap
Gabrieleño/Tongva Tribe
80839 Camino Santa Juliana
Indio, CA 92203

9590 9402 3894 8060 8298 45

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Article Addressed to:
Anthony Morales, Chairperson
Gabrieleño/Tongva San Gabriel Band of Mission Indians
PO Box 693
San Gabriel, CA 91778

9590 9402 3894 8060 8298 52

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1. Article Addressed to: Sam Dunlap
Gabrieleño/Tongva Tribe
80839 Camino Santa Juliana
Indio, CA 92203

8060 8298 45

Article Number (Transfer from service label)
7019 1120 0000 7456 7475

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Gabrieliño/Tongva Nation
106 ½ Judge John Aiso Street #231
Los Angeles, CA 90012

9590 9402 3894 8060 8298 14

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1. Article Addressed to:
Andrew Salas, Chairperson
Gabrieleño Band of Mission Indians - Kizh Nation
PO Box 393
Covina, CA 91723

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Appendix H

Cultural Resources Record Search

Report List

Report No.	Other IDs	Year	Author(s)	Title	Affiliation	Resources
OR-00416		1979	Riessen, Herbert P.	The Placentia Grasseaters a Burial Analysis and Report on Two Skeletons		
OR-00554		1977	Cottrell, Marie G.	Cultural Resource Survey for 13.7 Acres in the City of Placentia	Archaeological Research, Inc.	
OR-00985		1989	Brown, Joan C.	Cultural Resources Reconnaissance of the 375 Acre East Coyote Hills Unocal Project, Fullerton, California	RMW Paleo Associates, Inc.	30-001221
OR-02808		2002	Duke, Curt	Cultural Resource Assessment at & T Wireless Services Facility No. 13067a Orange County, California	LSA Associates, Inc.	
OR-03033		2004	Kyle, Carolyn E.	Cultural Resource Assessment for At&t Wireless Facility 950-013-305c 1600 North Acacia Avenue City of Fullerton Orange County, California	Kyle Consulting	
OR-03215	Cellular -	2005	Bonner, Wayne H.	Cultural Resources Records Search Results and Site Visit for Cingular Wireless Candidate Lsanca3039d (norht Placentia Avenue), 1930 North Placentia Avenue, Fillerton, Orange County, California	Michael Brandman Associates	
OR-03721		2007	Bonner, Wayne H.	Cultural Resources Records Search and Site Visit Results for T-Mobile Candidate LA23632C (Crowther Rental), Approximately 290 Feet West-Southwest of Goetz Place and West Crowther Avenue Intersection, Placentia Orange County, California	Michael Brandman Associates	
OR-03887		2013	Fulton, Phil	Cultural Resource Assessment Class I Inventory, Verizon Wireless Services CSUF Facility, City of Fullerton, Orange County, California	LSA Associates	30-001221
OR-04060		2009	Bonner, Wayne	Cultural Resources Records Search and Site Visit Results for TowerCo II, LLC CA2572 (Saito), 800 North State College Boulevard, Fullerton, Orange County, California	Michael Brandman Associates	30-157295, 30-157296, 30-157297

Report List

Report No.	Other IDs	Year	Author(s)	Title	Affiliation	Resources
OR-04079		1988	deGraaf, Larry, Jertberg, Pat, Schmidt, Marie, Octtavain, April, Torres, Elvia, Rospaw, Cecil, Aunis, Karen, Nebeker, Karen, Clark, John, Carlson, Robert, Deeble, Deborah, Nagle, Timothy, Snyder, Gretchen, Villareal, Gloria, Myers, William, Turner, Laura,	Placentia Historic Resources Survey	Marsh and Associates	30-160084, 30-177077, 30-177078
OR-04227		2012	McKenna, Jeanette	Addendum Report" A Cultural Resources Investigation for the College Town @ Cal State Fullerton Specific Plan Project Area in the City of Fullerton, Orange County, California	McKenna et al	30-157295, 30-157296, 30-177117, 30-177118, 30-177119
OR-04342		1990	Brown, Joan C.	Test Phase of a Portion of the East Coyote Hills Unocal Project, Fullerton, California	RMW Paleo Associates, Inc.	

Resource List

Primary No.	Trinomial	Other IDs	Type	Age	Attribute codes	Recorded by	Reports
P-30-162288		OHP Property Number - 090897; Resource Name - First Macadamia Tetraphylla Planted in California; Other - SPHI-ORA-015; Other - zip 92870	Other	Historic	HP30 (Trees/vegetation)	1982 (State Historical Resources Commission, Dept of Parks & Rec)	
P-30-177087		OHP Property Number - 143451; Resource Name - Charles Fuller Ranch; Other - zip 92870	Building	Historic	HP02 (Single family property)	2002 (Shannon Orr, City of Placentia)	OR-04104
P-30-177092		OHP Property Number - 143583; Resource Name - Nenno House; Other - zip 92870	Building	Historic	HP02 (Single family property)	2002 (Liliana Vasquez, City of Placentia)	OR-04104

Appendix I

Archaelogical Survey Field Notes

Rincon Consultants, Inc.
Environmental Scientists Planners Engineers
www.rinconconsultants.com

Daily Survey Record - Archaeology

Project Name: CSU Fullerton Master Plan Update **Project Number:** 18-01004

Rincon Project Manager (RPM): Brenna Weatherby **Client:** CSU Fullerton

Project Location (City, County, State): Fullerton, Orange County, CA

Crew Chief: Tricia Dodds **Date:** 7/15/2019

Additional Crew Members (Include any Native American Consultants): N/A

Work Start Time: 6:30am **Work End Time:** 11:30 **Total Hours Worked:** 5

All Breaks/ Meals Taken (Y/N): Y **If No, Explain:**

Equipment: ☒ Vehicle personal ☒ Camera ~~cell~~ phone ☐ Trimble

☐ Tablet Equipment Failures: none

Purchases: ☒ None ☐ Gas ☐ Water ☐ Ice Other:

Accidents(Y/N): N **If Yes, complete an Accident Report and Notify RPM Immediately**

Climate: Low: mid 60s °F High: 80s °F Conditions: sunny

Starting Survey Location (UTMs): Zone NW corner m/E m/N

Ending Survey Location (UTMs): Zone NE corner - arboretum m/E m/N

Other Locational Data: CSU Fullerton campus

Transect Orientation: survey exposed ground throughout 240 acre survey area **Transect Spacing:**

Overall Survey Results and Conditions: (brief summary of survey including vegetation, geology, cultural resources identified, survey methods and any issues encountered, use Continuation Sheet if needed):

Survey at CSU Fullerton campus. Target exposed ground in between buildings on campus. Area is heavily built and disturbed with a lot of foot/vehicle traffic. Could not access playing fields and baseball fields. All other areas accessible

Rincon Consultants, Inc.
Environmental Scientists Planners Engineers
www.rinconconsultants.com

Survey Results: ☒ Negative ☐ Positive (Describe below; attach additional sheets as necessary)

Detailed Description of Findings: (assign field numbers to all items recovered, describe all finds, including depths, locational information and key to map; attach additional sheets as necessary, note if existing sites were not relocated)

A lot of the exposed ground has mulch or wood chips on it.
Vegetation: shrubs, trees (birch, pine, palm), manicured lawns/grasses.

Soil is semi-compact, dry sandy silt. It is light brown with pebbles and subangular granitic, sandstone rock inclusions.
Observe lots of modern trash (plastic, cans, paper) on the ground
Surface coverage ≈ 75% with pavement and cement (built environment).
For arboretum in NE corner of survey area, surveyed along paths and open fields.

no cultural resources observed.

Observe modern debris (bricks, cement) strewn on the ground.

 # Previously Recorded Sites: 0 **# New Sites Found:** 0 **# New Isolates:** 0

Attached Forms:

☒ Daily Photo Log (required) ☐ Continuation Sheet (#__) ☐ Accident Report

☐ Provenience Designation Log ☐ Site Recording Forms ☐ Artifact Tally Forms

Appendix J

Paleontological Resources Assessment

Rincon Consultants, Inc.

250 East 1st Street, Suite 1400
Los Angeles, California 90012

213 788 4842
FAX 908 2200

info@rinconconsultants.com
www.rinconconsultants.com

July 29, 2019
Project No: 18-06014

Emil Zordilla
Director, Office of Planning and Design
California State University, Fullerton
800 North State College Boulevard
Fullerton, California 92831
Via email: ezordilla@exchange.fullerton.edu

Subject: **Paleontological Resources Assessment for the California State University Fullerton Education and Facilities Master Plan Update Project, Fullerton, Orange County, California**

Dear Mr. Zordilla,

Rincon Consultants, Inc. (Rincon) was retained by California State University, Fullerton to conduct a paleontological resources assessment for the California State University Fullerton (CSUF) Education and Facilities Master Plan Update Project (project) in Orange County, California. The goals of this assessment are to identify the geologic units that may be impacted by development of the project, determine the paleontological sensitivity of geologic units in the project site, assess potential for impacts to paleontological resources from development of the project, and recommend mitigation measures to reduce impacts to scientifically significant paleontological resources, as necessary.

This paleontological resource assessment consisted of a fossil locality record search at the Natural History Museum of Los Angeles County (NHMLAC) and review of existing geologic maps and primary literature regarding fossiliferous geologic units within the project site and vicinity. Following the literature review and records search, this report assessed the paleontological sensitivity of the geologic units underlying the project site, determined the potential for impacts to significant paleontological resources, and proposed mitigation measures to reduce impacts to less than significant. Figures are included in Attachment A.

Project Description

The project site is entirely developed with the campus of CSUF and encompasses approximately 240 acres within the city of Fullerton, Orange County, California (Attachment A, Figure 1). The project site, located at 800 North State College Boulevard, is generally confined by Nutwood Avenue on the south, State College Boulevard on the west, Yorba Linda Boulevard on the north, and State Route 57 (SR 57), on the east. A section of the project site lies across Nutwood Avenue, which lies between Nutwood Avenue to the north, Langsdorf Drive to the east, College Place to the south, and North Commonwealth Avenue to the west. The project site, situated approximately 6.5 miles east of Fullerton Creek, is depicted on Township 03S, Range 10W, Sections 24-25 of the United States Geological Survey (USGS) La Habra CA 7.5-minute quadrangle.

The proposed CSUF Educational and Facilities Master Plan Update, also referred to as the Campus Master Plan (CMP), is an update of the CSUF Master Development Plan (MDP). The CMP is guide for the future development of the CSUF campus and strategy for modifying the physical campus of CSUF to accommodate expected growth through the year 2039. The CMP presents an overall picture of the future of the CSUF campus and includes recommendations for land use, new construction, enhancement and replacement of existing facilities, mobility networks, and sustainable practices. The project will include addition of new, and replacement of old, academic buildings and housing. The design of these new facilities will provide increased informal learning spaces, distributed throughout existing, new, and exterior spaces. These will be complimented with improved dining and campus living amenities to increase the ability for students to remain on campus before, between, and after classes.

Regulatory Setting

Fossils are remains of ancient, commonly extinct organisms, and as such are nonrenewable resources. The fossil record is a document of the evolutionary history of life on earth, and fossils can be used to understand evolutionary pattern and process, rates of evolutionary change, past environmental conditions, and the relationships among modern species (i.e., systematics). The fossil record is a valuable scientific and educational resource, and individual fossils are afforded protection under federal, state, and local environmental laws, where applicable. This study has been completed in accordance with the requirements of the California Environmental Quality Act (CEQA) as well as other state regulations applicable to potential paleontological resources in the project site are summarized below.

California Environmental Quality Act

Paleontological resources are protected under CEQA, which states in part a project will “normally” have a significant effect on the environment if it, among other things, will disrupt or adversely affect a paleontological site except as part of a scientific study. Specifically, in Section VII(f) of Appendix G of the State CEQA Guidelines, the Environmental Checklist Form, the question is posed thus: “Will the project directly or indirectly destroy a unique paleontological resource or site or unique geologic feature.” To determine the uniqueness of a given paleontological resource, it must first be identified or recovered (i.e., salvaged). Therefore, CEQA mandates mitigation of adverse impacts, to the extent practicable, to paleontological resources.

CEQA does not define “a unique paleontological resource or site.” However, the Society of Vertebrate Paleontology (SVP) has defined a “significant paleontological resource” in the context of environmental review as follows:

> Fossils and fossiliferous deposits, here defined as consisting of identifiable vertebrate fossils, large or small, uncommon invertebrate, plant, and trace fossils, and other data that provide taphonomic, taxonomic, phylogenetic, paleoecologic, stratigraphic, and/or biochronologic information. Paleontological resources are typically to be older than recorded human history and/or older than middle Holocene (i.e., older than about 5,000 radiocarbon years) (SVP 2010).

The loss of paleontological resources meeting the criteria outlined above (i.e., a significant paleontological resource) would be a significant impact under CEQA, and the CEQA lead agency is responsible for ensuring that impacts to paleontological resources are mitigated, where practicable, in compliance with CEQA and other applicable statutes.

California Public Resources Code

Section 5097.5 of the Public Resources Code states:

> No person shall knowingly and willfully excavate upon, or remove, destroy, injure or deface any historic or prehistoric ruins, burial grounds, archaeological or vertebrate paleontological site, including fossilized footprints, inscriptions made by human agency, or any other archaeological, paleontological or historical feature, situated on public lands, except with the express permission of the public agency having jurisdiction over such lands. Violation of this section is a misdemeanor.

Here "public lands" means those owned by, or under the jurisdiction of, the state or any city, county, district, authority, or public corporation, or any agency thereof. Consequently, public agencies are required to comply with Public Resources Code Section 5097.5 for their own activities, including construction and maintenance, and for permit actions (e.g., encroachment permits) undertaken by others.

Methods

Rincon evaluated the paleontological sensitivity of the geologic units that underlie the project site using the results of the paleontological locality search and review of existing information in the scientific literature concerning known fossils in those geologic units. Rincon submitted a request to the NHMLAC for a list of known fossil localities from the project site and immediate vicinity (i.e., localities recorded on the USGS La Habra, California 7.5-minute topographic quadrangle), and reviewed geologic maps and scientific literature.

Rincon assigned a paleontological sensitivity to the geologic units in the project site. The potential for impacts to significant paleontological resources is based on the potential for ground disturbance to directly impact paleontologically sensitive geologic units. The SVP has defined paleontological sensitivity and developed a system for assessing paleontological sensitivity, as discussed below (SVP 2010).

Paleontological Resource Potential

Significant paleontological resources are determined to be fossils or assemblages of fossils that are unique, unusual, rare, diagnostically important, or are common but have the potential to provide valuable scientific information for evaluating evolutionary patterns and processes, or which could improve our understanding of paleochronology, paleoecology, paleophylogeography, or depositional histories. New or unique specimens can provide new insights into evolutionary history; however, additional specimens of even well represented lineages can be equally important for studying evolutionary pattern and process, evolutionary rates, and paleophylogeography. Even unidentifiable material can provide useful data for dating geologic units if radiocarbon dating is possible. As such, common fossils (especially vertebrates) may be scientifically important, and therefore considered highly significant.

The SVP (2010) describes sedimentary rock units as having high, low, undetermined, or no potential for containing significant nonrenewable paleontological resources. This criterion is based on rock units in which significant fossils have been determined by previous studies to be present or likely to be present. While these standards were written specifically to protect vertebrate paleontological resources, all fields of paleontology have adopted these guidelines, which are given here verbatim:

I. **High Potential (Sensitivity).** Rock units from which significant vertebrate or significant invertebrate fossils or significant suites of plant fossils have been recovered have a high potential for containing significant non-renewable fossiliferous resources. These units include but are not limited to, sedimentary formations and some volcanic formations which contain significant nonrenewable paleontological resources anywhere within their geographical extent, and sedimentary rock units temporally or lithologically suitable for the preservation of fossils. Sensitivity comprises both (a) the potential for yielding abundant or significant vertebrate fossils or for yielding a few significant fossils, large or small, vertebrate, invertebrate, or botanical and (b) the importance of recovered evidence for new and significant taxonomic, phylogenetic, ecologic, or stratigraphic data. Areas which contain potentially datable organic remains older than Recent, including deposits associated with nests or middens, and areas which may contain new vertebrate deposits, traces, or trackways are also classified as significant.

II. **Low Potential (Sensitivity).** Sedimentary rock units that are potentially fossiliferous, but have not yielded fossils in the past or contain common and/or widespread invertebrate fossils of well documented and understood taphonomic, phylogenetic species and habitat ecology. Reports in the paleontological literature or field surveys by a qualified vertebrate paleontologist may allow determination that some areas or units have low potentials for yielding significant fossils prior to the start of construction. Generally, these units will be poorly represented by specimens in institutional collections and will not require protection or salvage operations. However, as excavation for construction gets underway it is possible that significant and unanticipated paleontological resources might be encountered and require a change of classification from Low to High Potential and, thus, require monitoring and mitigation if the resources are found to be significant.

III. **Undetermined Potential (Sensitivity).** Specific areas underlain by sedimentary rock units for which little information is available have undetermined fossiliferous potentials. Field surveys by a qualified vertebrate paleontologist to specifically determine the potentials of the rock units are required before programs of impact mitigation for such areas may be developed.

IV. **No Potential.** Rock units of metamorphic or igneous origin are commonly classified as having no potential for containing significant paleontological resources.

Geologic Setting

The project site is in the “petroliferous” Los Angeles Basin, a northwest-trending lowland plain at the northern end of the Peninsular Ranges Province, one of eleven major geomorphic provinces in California (California Geological Survey 2002). A geomorphic province is a region of unique topography and geology that is readily distinguished from other regions based on its landforms and diastrophic history (Norris and Webb 1990). The Los Angeles Basin is approximately 60 miles long and 35 miles wide and is defined by Yerkes et al. (1965) as the region bounded by the northern foothills of the Santa Monica Mountains to the north, the San Jose Hills and the Chino fault on the east, and the Santa Ana Mountains and San Joaquin Hills in the southeast. The Los Angeles Basin is underlain by a structural depression that was the site of extensive accumulation of interstratified fluvial, alluvial, floodplain, shallow marine and deep shelf deposits on underlying Mesozoic metamorphic and granitic plutonic basement rocks. Sediment accumulation and subsidence has occurred there since the Late Cretaceous and has reached a maximum thickness of more than 20,000 feet (McCulloh and Beyer 2004; Norris and Webb 1990; Yerkes et al. 1965). During that time, rise and fall of relative sea level, tectonic uplift and subsidence, and Pleistocene glaciation resulted in marine and terrestrial sedimentary deposition throughout the Los

Angeles Basin (Beyer 1995; McCulloh and Beyer 2004). The Los Angeles Basin contains several major fault zones, including the Newport-Inglewood fault zone in the vicinity of the project site (Morton and Miller 2006; Yerkes et al. 1965).

The project is located in the Santa Ana Valley in Orange County, within the southeastern portion of the Los Angeles Basin (Morton and Miller 2006; Yerkes et al. 1965). According to published geologic mapping, the project site is entirely underlain by young Quaternary (Holocene) alluvium (Qa) (Dibblee and Ehrenspeck, 2001; Morton and Miller, 2006) (Attachment A, Figure 2). These sediments are composed of unconsolidated sand, silt, and clay derived as alluvial fan deposits from the Chino Hills to the north and from the East Coyote Hills to the northwest via Fullerton Creek. Nearby exposures of the La Habra Formation (Qlh, Qlhc) and older Quaternary (Pleistocene) alluvium (Qoa) indicate these units may occur at depth within the project site. The La Habra Formation, exposed just northwest of the project site, is Pleistocene in age and consists of mudstone, sandstone, and a basal conglomerate (Dibblee and Ehrenspeck 2001). Older Quaternary (Pleistocene) alluvial deposits exposed north of the project site are composed of weakly to moderately-consolidated gravel and conglomerate, conglomeratic sandstone, and siltstone. The depth at which the Pleistocene strata underlies the surficial Holocene alluvium in the project site is unknown but may as shallow as eight feet below ground surface (bgs), based on depth of recovery for nearby vertebrate fossil localities (McLeod 2019).

Intact Holocene alluvial deposits in the project site are too young to preserve paleontological resources; however, at moderate depth, the Holocene sediments may grade into older deposits of late Pleistocene age that could preserve fossil remains, including older Quaternary alluvium or the La Habra Formation. The La Habra Formation has yielded numerous terrestrial vertebrate fossils such as rabbit, deer, horse, camel, and sloth (Eisentraut and Cooper 2003; Rivin and Sutton 2010). As well, Pleistocene sedimentary deposits have a well-documented record of abundant and diverse vertebrate fauna throughout California, especially within the Los Angeles Basin. Fossil specimens of whale, sea lion, horse, ground sloth, bison, camel, mammoth, dog, pocket gopher, turtle, ray, bony fish, shark, and bird have been reported (Agenbroad 2003; Bell et al. 2004; Jefferson 1985, 1989, 1991; Maguire and Holroyd 2016; Merriam 1911; Reynolds et al. 1991; Savage 1951; Savage et al. 1954; Scott and Cox 2008; Springer et al. 2009; Tomiya et al. 2011; Wilkerson et al. 2011; Winters 1954; University of California Berkeley Museum of Paleontology 2019).

Results

Locality Search

A search of the paleontological locality records at the NHMLAC resulted in no previously recorded fossil localities in the project site; however, several vertebrate localities have been recorded nearby within older Quaternary alluvial deposits and the La Habra Formation. The closest vertebrate fossil locality to the project site (LACM 1652) is located approximately 2.75 miles to the southeast of the project site near the intersection of Rio Vista Avenue and Lincoln Avenue, which yielded a fossil specimen of sheep (*Ovis*). The depth of recovery for fossil locality LACM 1652 was unreported. LACM 4943, located approximately three miles to the southeast of the project site near the intersection of Fletcher Avenue and Glassell Street, yielded a specimen of fossil horse (*Equus*) from Pleistocene age deposits at a depth of eight to ten feet bgs. LACM 6472, located approximately three miles in the Coyote Hills adjacent and northwest of the project site, produced a specimen of fossil horse (*Equus*) from the La Habra Formation, which may occur at depth in the project site (McLeod 2019).

Paleontological Sensitivity

In accordance with SVP (2010) guidelines, Rincon determined the paleontological sensitivity of the project site based on a literature review and museum locality search. The results of the study indicate that the geologic units underlying the project site have a paleontological sensitivity ranging from low to high. Younger Quaternary alluvial deposits mapped at the surface of the project site have been assigned a low paleontological sensitivity because Holocene sedimentary deposits, particularly those younger than 5,000 years old, are generally too young to contain fossilized material. The Holocene sediments may be underlain by Pleistocene deposits or La Habra Formation at a moderate depth of approximately eight feet bgs. The Pleistocene deposits and La Habra Formation have been assigned a high paleontological resource sensitivity based on the results of the NHMLAC records search (McLeod 2019). Refer to Table 1 for paleontological sensitivity in the project site.

Table 1 Paleontological Sensitivity of the Geologic Units in the Project Site

Geologic Unit[1]	Unit Symbol	Typical Fossils[2]	Paleontological Sensitivity[3]	Recommended Monitoring
Quaternary Alluvium	Qa	None	Low at surface	**At or below eight feet** (depth where unit may overlie older sensitive deposits)
Older Quaternary Alluvium (not mapped at the surface of the project site, but may be present in the subsurface)	Qoa	Terrestrial and marine mammals	High	**Yes** (may be present at eight feet or more beneath Holocene alluvium)
La Habra Formation (not mapped at the surface of the project site, but may be present in the subsurface)	Qlh, Qlhc	Terrestrial mammals	High	**Yes** (may be present at eight feet or more beneath Holocene alluvium)

[1] Dibblee and Ehrenspeck 2001; Morton and Miller 2006

[2] McLeod 2019

[3] SVP 2010

Findings and Recommendations

Ground-disturbing activities in previously undisturbed portions of the project underlain by geologic units with a high paleontological sensitivity (i.e., older Quaternary alluvial deposits or La Habra Formation) may result in significant impacts to paleontological resources under Appendix G of State CEQA Guidelines. Impacts would be significant if construction activities result in the destruction, damage, or loss of scientifically important paleontological resources and associated stratigraphic and paleontological data. The activities may include grading, excavation, or other activities that disturb substantial quantities of the surface or subsurface geologic units with a high paleontological sensitivity. Based on the findings of the NHMLAC, Holocene alluvium overlies the paleontologically-sensitive Pleistocene alluvium to a depth of approximately eight feet bgs; therefore, impacts to paleontological resources are not expected above eight feet bgs (McLeod 2019).

The following recommended mitigation would address the potentially significant impacts relating to the possible discovery of paleontological resources during project implementation. These measures would apply to all phases of project construction and would ensure that any significant fossils present on-site are preserved. Implementation of the following recommended mitigation measures would reduce

potential project impacts to paleontological resources to a less-than-significant level by requiring paleontological resource studies for projects in high sensitivity geological units within the CSUF Master Plan Update and implementation of further requirements to avoid or reduce impacts to such resources on a project-by-project basis. The following mitigation measures shall be added to the CSUF Master Plan Update:

1. **Retain a Qualified Paleontologist.** Prior to the commencement of ground disturbing activities, a qualified professional paleontologist shall be retained to review all project plans where ground disturbance is expected to occur at or below eight feet bgs within areas mapped as Holocene alluvial deposits (Qa) to determine if underlying paleontologically sensitive units (i.e., Pleistocene age deposits or the La Habra Formation) could be impacted. If potentially significant impacts are identified, the qualified professional paleontologist shall prepare and implement a Paleontological Resources Mitigation Plan (PRMP) for the project. A Qualified Paleontologist is an individual who meets the education and professional experience standards as set forth by the SVP (2010), which recommends the paleontologist shall have at least a Master's Degree or equivalent work experience in paleontology, shall have knowledge of the local paleontology, and shall be familiar with paleontological procedures and techniques. The PRMP shall describe mitigation recommendations in detail, including paleontological monitoring procedures; communication protocols to be followed in the event that an unanticipated fossil discovery is made during project development; and preparation, curation, and reporting requirements.
2. **Paleontological Worker Environmental Awareness Program (WEAP).** Prior to the start of construction, the Qualified Paleontologist or his or her designee, shall conduct training for construction personnel regarding the appearance of fossils and the procedures for notifying paleontological staff should fossils be discovered by construction staff. The WEAP shall be fulfilled at the time of a preconstruction meeting. In the event a fossil is discovered by construction personnel anywhere in the project site, all work in the immediate vicinity of the find shall cease and a qualified paleontologist shall be contacted to evaluate the find before re-starting work in the area. If it is determined that the fossil(s) is (are) scientifically significant, the qualified paleontologist shall complete the mitigation outlined below to mitigate impacts to significant fossil resources.
3. **Paleontological Monitoring.** Initially, full-time monitoring shall be conducted during ground construction activities (i.e., grading, trenching, foundation work, and other excavations) in areas where ground disturbance would occur at or below eight feet bgs within intact Holocene deposits. Monitoring shall be conducted by a qualified paleontological monitor, who is defined as an individual who meets the minimum qualifications per standards set forth by the SVP (2010), which includes a B.S. or B.A. degree in geology or paleontology with one year of monitoring experience and knowledge of collection and salvage of paleontological resources. The duration and timing of the monitoring shall be determined by the Qualified Paleontologist and the location and extent of proposed ground disturbance. If the Qualified Paleontologist determines that full-time monitoring is no longer warranted, based on the specific geologic conditions at the surface or at depth, the Qualified Paleontologist may recommend that monitoring be reduced to periodic spot-checking or cease entirely.
4. **Fossil Discovery, Preparation, and Curation.** If a paleontological resource is discovered, the monitor shall have the authority to temporarily divert the construction equipment around the find until it is assessed for scientific significance and collected. Typically, fossils can be safely salvaged quickly by a single paleontologist and not disrupt construction activity. In some cases, larger fossils (such as complete skeletons or large mammals) require more extensive excavation

and longer salvage periods. In this case, the paleontologist should have the authority to temporarily direct, divert or halt construction activity to ensure that the fossil(s) can be removed in a safe and timely manner.

Once salvaged, significant fossils shall be identified to the lowest possible taxonomic level, prepared to a curation-ready condition and curated in a scientific institution with a permanent paleontological collection (such as the NHMLAC) along with all pertinent field notes, photos, data, and maps. The cost of curation is assessed by the repository and is the responsibility of the project owner.

5. **Final Paleontological Mitigation Report.** At the conclusion of laboratory work and museum curation, a final report shall be prepared describing the results of the paleontological mitigation monitoring efforts associated with the project. The report shall include a summary of the field and laboratory methods, an overview of the project geology and paleontology, a list of taxa recovered (if any), an analysis of fossils recovered (if any) and their scientific significance, and recommendations. The final report shall be submitted to the CSUF. If the monitoring efforts produced fossils, then a copy of the report shall also be submitted to the designated museum repository.

If you have any questions regarding this Paleontological Resource Assessment, please contact us.

Sincerely,

Rincon Consultants, Inc.

Jorge Mendieta, BA
Associate Paleontologist

Jessica DeBusk, BS, MBA
Principal Investigator/Program Manager

Deanna Hansen, BA
Principal

Attachments

Attachment A Figures

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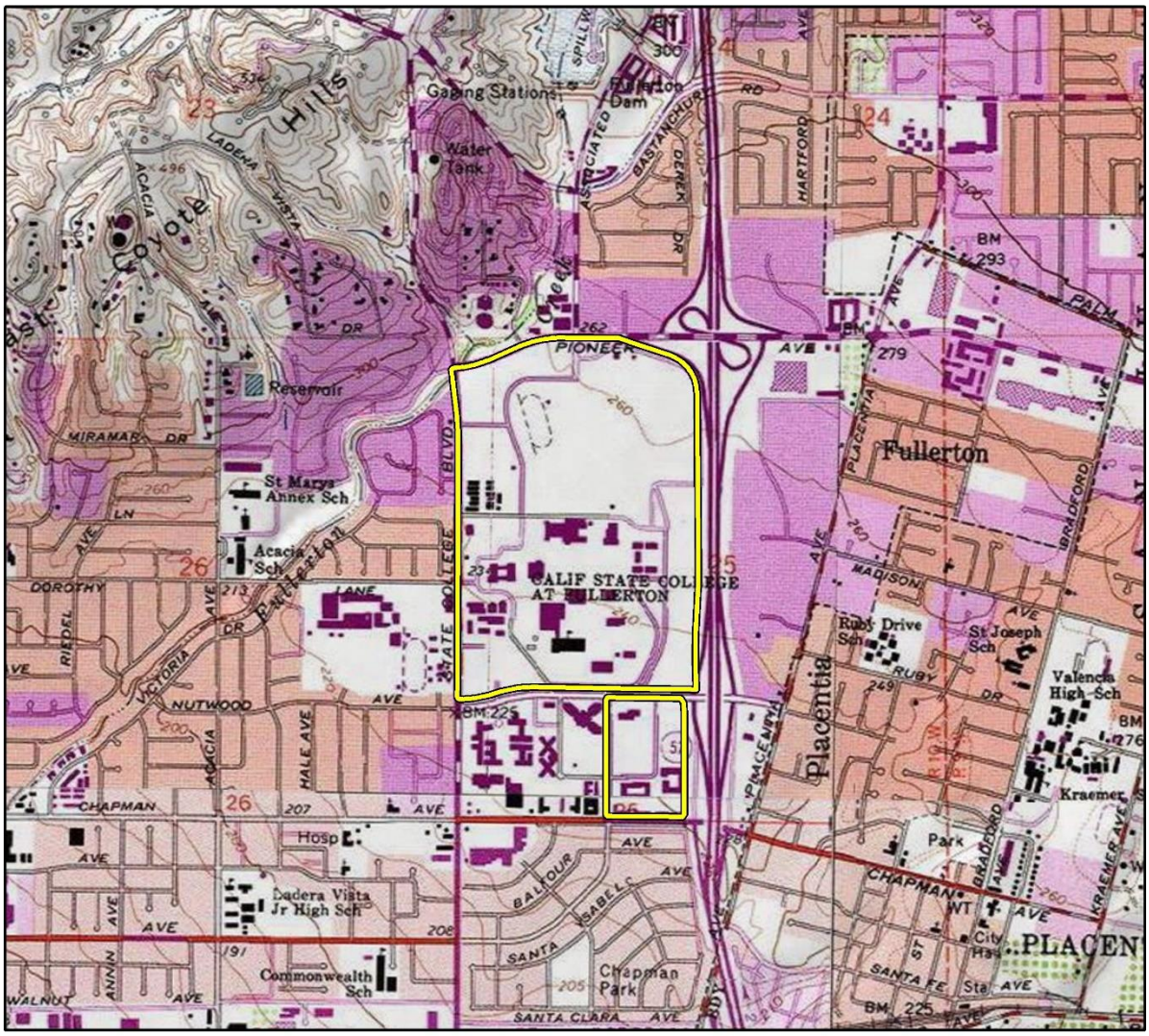
Attachment A

Figures

Figure 1 Project Vicinity Map

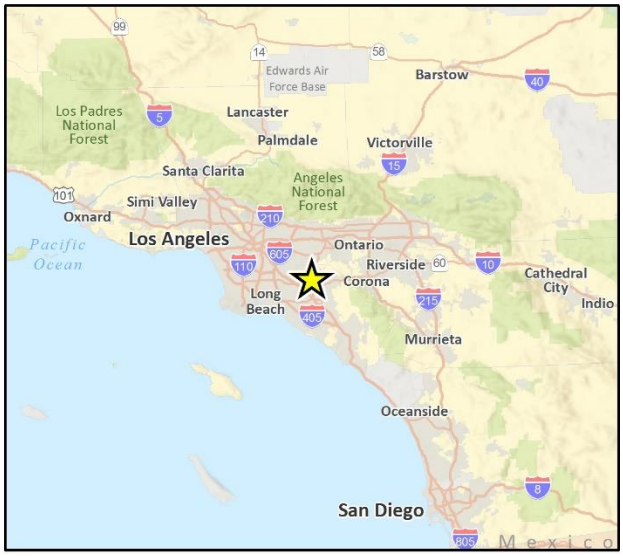


Imagery provided by National Geographic Society, Esri and its licensors © 2019. Anaheim & La Habra Quadrangles. T03S R10W S24,25. The topographic representation depicted in this map may not portray all of the features currently found in the vicinity today and/or features depicted in this map may havechanged since the original topographic map was assembled.

Project Location

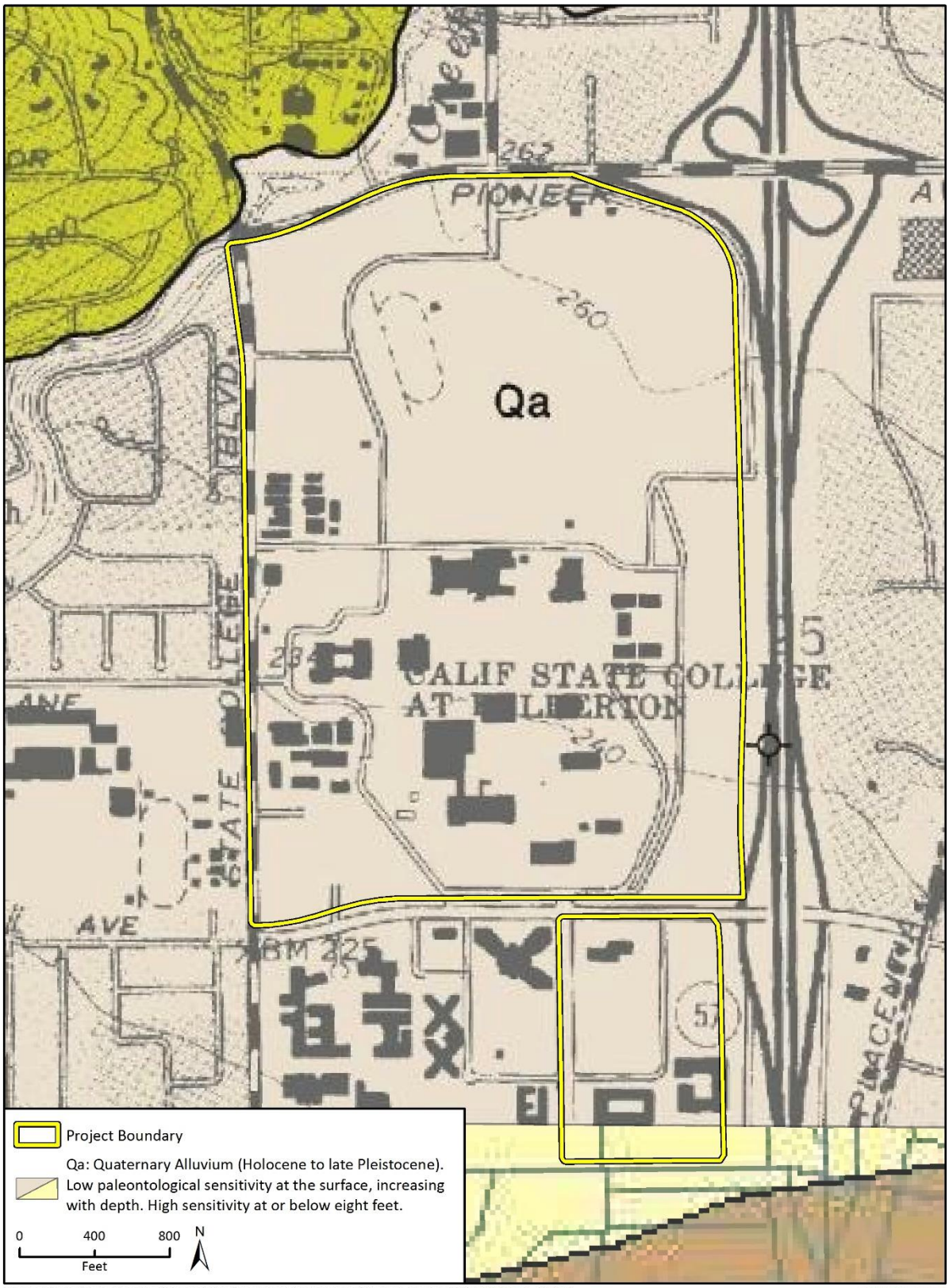
0 1,000 2,000 Feet

N



CRFig 1 Proj Locn Map

Figure 2 Geologic Units and Paleontological Sensitivity of the Project Site



Imagery from "Geologic map of the Whittier & La Habra Quadrangles (Western Puente Hills)," Dibblee Jr., 2001 & ."Geologic map of the San Bernardino and Santa Ana 30' x 60' quadrangles, California," Morton and Miller, 2006

CRFI X Geologic Map

Appendix K

Paleontological Resource Records Request

Rincon Consultants, Inc.

Environmental Scientists Planners Engineers

To: Dr. Samuel A. McLeod, Collections Manager
Natural History Museum of Los Angeles
Department of Vertebrate Paleontology
900 Exposition Blvd.
Los Angeles, CA 90007
Phone: (213) 763-3325
smcleod@nhm.org

From: Jorge Mendieta, Paleontologist/Geologist
Rincon Consultants, Inc.
250 East 1st Street, Suite 1400
Los Angeles, California 90012
Phone: (213) 788-4842
jmendieta@rinconconsultants.com

Date: June 17, 2019

Re: Paleontology records search request
Rincon Project # 18-06014, California State University Fullerton Master Plan Project

I would like to request a paleontological records search of one USGS 7.5-minute topographic map quadrangle within Orange County as follows:

1. La Habra

I have enclosed a map showing the project area (solid black line), within which potential disturbance could occur. This map also shows the townships, ranges, and sections relative to the project area. Please disregard the half-mile buffer (dotted yellow line) and search only the quadrangle listed above.

To facilitate our evaluation and analysis of paleontological sensitivity and potential impacts to paleontological resources, please identify all fossil localities that occur within the quadrangle(s) and/or within the vicinity. Also, please include as much location detail as you are able in your write up, such as distance from the project area, or townships, ranges, and sections.

Sincerely,

Jorge Mendieta
Rincon Consultants, Inc.

Appendix L

Noise Impact Analysis

Data Logger 2
SET 3
A
SLOW
Range 40-100
L05 72.7
L10 71.8
L50 65.7
L90 54.8
L95 51.2
Max dB 96.5
2019/10/10 09:01:56
SEL 97.6
Leq 68.1

ST1

No.s	Date Time	dB
1	2019/10/10 08:51:19	71.5
2	2019/10/10 08:51:22	71.6
3	2019/10/10 08:51:25	71.4
4	2019/10/10 08:51:28	71.7
5	2019/10/10 08:51:31	69.4
6	2019/10/10 08:51:34	63.8
7	2019/10/10 08:51:37	72.7
8	2019/10/10 08:51:40	67.8
9	2019/10/10 08:51:43	69.9
10	2019/10/10 08:51:46	67.1
11	2019/10/10 08:51:49	62.6
12	2019/10/10 08:51:52	61.9
13	2019/10/10 08:51:55	64.3
14	2019/10/10 08:51:58	64.2
15	2019/10/10 08:52:01	62.9
16	2019/10/10 08:52:04	63.4
17	2019/10/10 08:52:07	66.7
18	2019/10/10 08:52:10	65.2
19	2019/10/10 08:52:13	60.6
20	2019/10/10 08:52:16	61.2
21	2019/10/10 08:52:19	62.0
22	2019/10/10 08:52:22	59.1
23	2019/10/10 08:52:25	61.2
24	2019/10/10 08:52:28	64.8
25	2019/10/10 08:52:31	66.8
26	2019/10/10 08:52:34	67.0
27	2019/10/10 08:52:37	68.4
28	2019/10/10 08:52:40	67.7
29	2019/10/10 08:52:43	65.8
30	2019/10/10 08:52:46	66.8
31	2019/10/10 08:52:49	66.9
32	2019/10/10 08:52:52	63.4
33	2019/10/10 08:52:55	62.3
34	2019/10/10 08:52:58	66.6
35	2019/10/10 08:53:01	66.0
36	2019/10/10 08:53:04	71.2
37	2019/10/10 08:53:07	73.3
38	2019/10/10 08:53:10	72.4
39	2019/10/10 08:53:13	71.8

40	2019/10/10	08:53:16	69.4
41	2019/10/10	08:53:19	70.7
42	2019/10/10	08:53:22	68.7
43	2019/10/10	08:53:25	66.0
44	2019/10/10	08:53:28	68.6
45	2019/10/10	08:53:31	66.7
46	2019/10/10	08:53:34	68.7
47	2019/10/10	08:53:37	67.5
48	2019/10/10	08:53:40	65.2
49	2019/10/10	08:53:43	63.2
50	2019/10/10	08:53:46	62.0
51	2019/10/10	08:53:49	65.6
52	2019/10/10	08:53:52	64.5
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54	2019/10/10	08:53:58	62.6
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Data Logger 2
SET 3

ST2

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L10 69.9
L50 62.4
L90 56.4
L95 54.9
Max dB 80.0
2019/10/10 09:32:11
SEL 95.8
Leq 66.3

No.s	Date Time	dB
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8	2019/10/10 09:31:27	60.3
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175	2019/10/10	09:39:48	65.5
176	2019/10/10	09:39:51	59.0
177	2019/10/10	09:39:54	56.0
178	2019/10/10	09:39:57	56.5
179	2019/10/10	09:40:00	59.5
180	2019/10/10	09:40:03	64.9
181	2019/10/10	09:40:06	72.9
182	2019/10/10	09:40:09	67.1
183	2019/10/10	09:40:12	61.4
184	2019/10/10	09:40:15	69.7
185	2019/10/10	09:40:18	68.0
186	2019/10/10	09:40:21	64.9
187	2019/10/10	09:40:24	64.0
188	2019/10/10	09:40:27	64.6
189	2019/10/10	09:40:30	65.5
190	2019/10/10	09:40:33	67.2
191	2019/10/10	09:40:36	62.7
192	2019/10/10	09:40:39	60.0
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194	2019/10/10	09:40:45	58.5
195	2019/10/10	09:40:48	57.2
196	2019/10/10	09:40:51	56.9
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198	2019/10/10	09:40:57	67.7
199	2019/10/10	09:41:00	62.3
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201	2019/10/10	09:41:06	63.7

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204	2019/10/10	09:41:15	62.6
205	2019/10/10	09:41:18	59.1
206	2019/10/10	09:41:21	62.6
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209	2019/10/10	09:41:30	59.4
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211	2019/10/10	09:41:36	55.8
212	2019/10/10	09:41:39	57.3
213	2019/10/10	09:41:42	60.5
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215	2019/10/10	09:41:48	69.0
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221	2019/10/10	09:42:06	61.5
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235	2019/10/10	09:42:48	62.5
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239	2019/10/10	09:43:00	61.3
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253	2019/10/10	09:43:42	69.9
254	2019/10/10	09:43:45	72.0
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279	2019/10/10	09:45:00	64.4
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287	2019/10/10	09:45:24	64.5
288	2019/10/10	09:45:27	57.9
289	2019/10/10	09:45:30	55.0
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291	2019/10/10	09:45:36	73.6
292	2019/10/10	09:45:39	68.9
293	2019/10/10	09:45:42	69.7
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295	2019/10/10	09:45:48	62.1
296	2019/10/10	09:45:51	63.3
297	2019/10/10	09:45:54	69.9
298	2019/10/10	09:45:57	66.1
299	2019/10/10	09:46:00	60.1
300	2019/10/10	09:46:03	60.3

ST3

Data Logger 2
SET 3
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SLOW
Range 40-100
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L10 64.1
L50 61.4
L90 58.9
L95 58.5
Max dB 74.0
2019/10/10 10:08:43
SEL 91.6
Leq 62.1

No.s	Date Time	dB
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4	2019/10/10 10:08:11	58.9
5	2019/10/10 10:08:14	58.6
6	2019/10/10 10:08:17	58.6
7	2019/10/10 10:08:20	59.2
8	2019/10/10 10:08:23	59.1
9	2019/10/10 10:08:26	60.0
10	2019/10/10 10:08:29	59.8
11	2019/10/10 10:08:32	59.7
12	2019/10/10 10:08:35	60.6
13	2019/10/10 10:08:38	60.7
14	2019/10/10 10:08:41	71.4
15	2019/10/10 10:08:44	64.7
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19	2019/10/10 10:08:56	60.0
20	2019/10/10 10:08:59	59.8
21	2019/10/10 10:09:02	59.4
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24	2019/10/10 10:09:11	63.2
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26	2019/10/10 10:09:17	59.7
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32	2019/10/10 10:09:35	59.9
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63	2019/10/10 10:11:08	63.0
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Data Logger 2
SET 3

ST4

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SLOW
Range 40-100
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L10 67.2
L50 60.6
L90 51.0
L95 50.0
Max dB 74.9
2019/10/10 11:05:03
SEL 92.9
Leq 63.4

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ST5

Data Logger 2
SET 3
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L50 60.6
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L95 50.0
Max dB 74.9
2019/10/10 11:05:03
SEL 92.9
Leq 63.4

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LT1

Data Logger 2
SET 240
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L10 72.3
L50 65.1
L90 50.6
L95 47.6
Max dB 98.9
2019/10/10 09:00:26
SEL 119.3
Leq 70.0

No.s	Date Time	dB
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10	2019/10/10 09:13:31	68.2
11	2019/10/10 09:17:31	72.9
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22	2019/10/10 10:01:31	63.9
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258	2019/10/11	01:45:31	50.4
259	2019/10/11	01:49:31	44.3
260	2019/10/11	01:53:31	59.6
261	2019/10/11	01:57:31	53.7
262	2019/10/11	02:01:31	65.9
263	2019/10/11	02:05:31	50.5
264	2019/10/11	02:09:31	53.0
265	2019/10/11	02:13:31	53.8
266	2019/10/11	02:17:31	52.5
267	2019/10/11	02:21:31	46.1
268	2019/10/11	02:25:31	54.9
269	2019/10/11	02:29:31	42.6
270	2019/10/11	02:33:31	58.8
271	2019/10/11	02:37:31	49.1
272	2019/10/11	02:41:31	54.1
273	2019/10/11	02:45:31	47.0
274	2019/10/11	02:49:31	46.9
275	2019/10/11	02:53:31	48.3
276	2019/10/11	02:57:31	50.1
277	2019/10/11	03:01:31	58.5
278	2019/10/11	03:05:31	53.2
279	2019/10/11	03:09:31	60.7
280	2019/10/11	03:13:31	52.5
281	2019/10/11	03:17:31	53.1
282	2019/10/11	03:21:31	49.7
283	2019/10/11	03:25:31	41.5
284	2019/10/11	03:29:31	55.2
285	2019/10/11	03:33:31	62.7
286	2019/10/11	03:37:31	47.2
287	2019/10/11	03:41:31	52.1
288	2019/10/11	03:45:31	51.7
289	2019/10/11	03:49:31	49.5
290	2019/10/11	03:53:31	56.5
291	2019/10/11	03:57:31	53.6
292	2019/10/11	04:01:31	64.0
293	2019/10/11	04:05:31	52.7
294	2019/10/11	04:09:31	47.3
295	2019/10/11	04:13:31	59.1
296	2019/10/11	04:17:31	60.8
297	2019/10/11	04:21:31	53.0
298	2019/10/11	04:25:31	56.8
299	2019/10/11	04:29:31	52.7
300	2019/10/11	04:33:31	49.8
301	2019/10/11	04:37:31	53.8
302	2019/10/11	04:41:31	67.2
303	2019/10/11	04:45:31	67.0
304	2019/10/11	04:49:31	53.5
305	2019/10/11	04:53:31	66.2
306	2019/10/11	04:57:31	53.5
307	2019/10/11	05:01:31	52.7
308	2019/10/11	05:05:31	61.7
309	2019/10/11	05:09:31	60.4

310	2019/10/11	05:13:31	50.9
311	2019/10/11	05:17:31	54.9
312	2019/10/11	05:21:31	58.7
313	2019/10/11	05:25:31	52.4
314	2019/10/11	05:29:31	57.2
315	2019/10/11	05:33:31	69.2
316	2019/10/11	05:37:31	63.9
317	2019/10/11	05:41:31	56.8
318	2019/10/11	05:45:31	64.2
319	2019/10/11	05:49:31	68.3
320	2019/10/11	05:53:31	61.8
321	2019/10/11	05:57:31	63.4
322	2019/10/11	06:01:31	54.4
323	2019/10/11	06:05:31	62.5
324	2019/10/11	06:09:31	57.8
325	2019/10/11	06:13:31	64.5
326	2019/10/11	06:17:31	69.6
327	2019/10/11	06:21:31	65.0
328	2019/10/11	06:25:31	71.8
329	2019/10/11	06:29:31	65.5
330	2019/10/11	06:33:31	65.4
331	2019/10/11	06:37:31	68.9
332	2019/10/11	06:41:31	71.1
333	2019/10/11	06:45:31	67.8
334	2019/10/11	06:49:31	55.4
335	2019/10/11	06:53:31	69.2
336	2019/10/11	06:57:31	64.8
337	2019/10/11	07:01:31	69.7
338	2019/10/11	07:05:31	66.9
339	2019/10/11	07:09:31	63.5
340	2019/10/11	07:13:31	70.6
341	2019/10/11	07:17:31	55.8
342	2019/10/11	07:21:31	71.8
343	2019/10/11	07:25:31	62.2
344	2019/10/11	07:29:31	57.3
345	2019/10/11	07:33:31	62.6
346	2019/10/11	07:37:31	65.5
347	2019/10/11	07:41:31	71.9
348	2019/10/11	07:45:31	59.7
349	2019/10/11	07:49:31	63.4
350	2019/10/11	07:53:31	62.6
351	2019/10/11	07:57:31	76.4
352	2019/10/11	08:01:31	65.6
353	2019/10/11	08:05:31	73.1
354	2019/10/11	08:09:31	59.7
355	2019/10/11	08:13:31	65.8
356	2019/10/11	08:17:31	67.3
357	2019/10/11	08:21:31	62.8
358	2019/10/11	08:25:31	70.7
359	2019/10/11	08:29:31	69.9
360	2019/10/11	08:33:31	71.1

ST2
ST3 (face mic towards freeway)
LT1 &ST1
ST4

Appendix M

Traffic Impact Analysis

CSU Fullerton Master Plan Update EIR
Transportation Impact Study

Prepared for:

Rincon Consultants Inc.

April 2020

OC19-0656

FEHR PEERS

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1. Project Description and Project Setting

This report presents the analysis and findings of a Transportation Impact Study (TIS) prepared for the California State University, Fullerton (CSU Fullerton) Master Plan Update (Project) in the City of Fullerton (City), California. This chapter discusses the TIS purpose, Project description and setting, and analysis locations and scenarios.

Study Purpose

The purpose of this study is to evaluate the transportation impacts of the Project consistent with the requirements of the *California State University Transportation Impact Study Manual (March 2019)*.

Project Description and Project Setting

The Project will update the current Master Plan with a new land use plan, updated full time equivalent student (FTES) projections, and an increase in anticipated employees and faculty members. The FTES is projected to increase from 25,000 (current) to 32,000 by horizon year 2040. The Project will also add 1,000 new employees and 3,000 new on-campus beds.

The Project site is located in the eastern part of Fullerton. The CSU Fullerton campus is bounded by Yorba Linda Boulevard to the north, Nutwood Avenue to the south, State Route (SR) 57 to the east, and State College Boulevard to the west. **Figure 2** shows the Project site and vicinity and analysis locations.

Roadway Network

Regional access to the site is provided by SR 57, SR 90, and SR 91. Local access to the site is provided by Associated Road, Bastanchury Road, Bradford Avenue, Chapman Avenue, Commonwealth Avenue, Fender Avenue, Nutwood Avenue, Placentia Avenue, Primrose Avenue, State College Boulevard, and Yorba Linda Boulevard. The following discusses the roadways that would provide access to the site and are most likely to experience direct traffic impacts, if any, from the proposed Project.

Regional Roadways

SR 57, also known as the Orange Freeway, provides north-south regional access between Orange and Los Angeles Counties with five travel lanes and one carpool lane in each direction. SR 57 provides access to the Project via the Yorba Linda Boulevard interchange.

SR 90, also known as the Imperial Highway, provides east-west regional access between Orange and Los Angeles Counties with three travel lanes in each direction. SR 90 connects to SR 57 north of the Project site.

SR 91, also known as the Riverside Freeway, provides east-west regional access between Los Angeles, Orange, and Riverside Counties with four travel lanes and one carpool lane in each direction. SR 91 connects to SR 57 south of the Project site.

Local Roadways

Roadway classifications from *The Fullerton Plan 2030* (2012) and field observations of existing conditions were used in the following local roadway descriptions:

Associated Road is classified as a Secondary Arterial Highway with four undivided travel lanes. It provides north-south mobility with direct access to the Project site. The posted speed limit is 40 miles per hour (MPH). Associated Road continues south of Yorba Linda Boulevard in the Master Plan area as N Campus Drive.

Bastanchury Road is classified as a Major Arterial Highway with five divided travel lanes north of the Project site. It provides east-west mobility and connects to roadways with direct access to the Project site. The posted speed limit is 50 MPH.

Bradford Avenue is classified as a Local Street Collector with two undivided travel lanes east of the Project site. It provides north-south mobility and connects to roadways with direct access to the Project site. The posted speed limit is 35 MPH.

Chapman Avenue is classified as a Major Arterial Highway east of State College Boulevard with six divided travel lanes and classified as a Primary Arterial Highway west of State College Boulevard with four divided travel lanes. It lies southwest of the Project site, providing east-west mobility and connection to roadways with direct access to the Project site. The posted speed limit is 40 MPH.

Commonwealth Avenue is classified as a Primary Arterial Highway with four undivided travel lanes southwest of the Project site. It provides east-west mobility and connects to roadways with direct access to the Project site. The posted speed limit is 40 MPH.

Fender Avenue is classified as a Residential Street with two undivided travel lanes south of the Project site. It provides east-west mobility and connects to roadways with direct access to the Project site. The posted speed limit is 25 MPH.

Nutwood Avenue is classified as a Primary Arterial Highway with six divided travel lanes south of the Project site. It provides east-west mobility and direct access to the Project site. The posted speed limit is 35 MPH. Nutwood Avenue provides direct access to internal roadways within the Master Plan area.

Placentia Avenue is classified as a Primary Arterial Highway with four divided travel lanes east of the Project site. It provides north-south mobility and connects to roadways with direct access to the Project site. The posted speed limit is 40 MPH.

Primrose Avenue is classified as a Local Collector Street with two undivided travel lanes east of the Project site. It provides north-south mobility and connects to roadways with direct access to the Project site. The posted speed limit is 15 MPH.

State College Boulevard is classified as a Major Arterial Highway with six divided travel lanes west of the Project site. It provides north-south mobility with direct access to the Project site. The posted speed limit is 40 MPH. State College Boulevard provides direct access to internal roadways within the Master Plan area.

Yorba Linda Boulevard is classified as a Major Arterial Highway with six divided travel lanes north of the Project site. It provides east-west mobility with direct access to the Project site. The posted speed limit is 40 MPH. Yorba Linda Boulevard provides direct access to internal roadways within the Master Plan area.

Pedestrian and Bicycle Facilities

Pedestrian facilities include sidewalks, crosswalks, and pedestrian signals. Sidewalks are provided on both sides of the major roads that bound the campus area: State College Boulevard, Nutwood Avenue, and Yorba Linda Boulevard. At signalized intersections in the study area, crosswalks and pedestrian push-button actuated signals are provided.

Bicycle facilities and descriptions are as follows:

- **Bike paths (Class I)** – Bike paths provide a separate right-of-way and are designated for the exclusive use of people riding bicycles and walking with minimal cross-flow traffic. Such paths can be well situated along creeks, canals, and rail lines. Class I Bikeways can also offer opportunities not provided by the road system by serving as both recreational areas and/or desirable commuter routes.

- **Bike lanes (Class II)** – Bike lanes provide designated street space for bicyclists, typically adjacent to the outer vehicle travel lanes. Bike lanes include special lane markings, pavement legends, and signage. Bike lanes may be enhanced with painted buffers between vehicle lanes and/or parking, and green paint at conflict zones (such as driveways or intersections).

- **Bike routes (Class III)** – Bike routes provide enhanced mixed-traffic conditions for bicyclists through signage, striping, and/or traffic calming treatments, and to provide continuity to a bikeway network. Bike routes are typically designated along gaps between bike trails or bike lanes, or along low-volume, low-speed streets. Bicycle boulevards provide further enhancements to bike routes to encourage slow speeds and discourage non-local vehicle traffic via traffic diverters, chicanes, traffic circles, and/or speed tables. Bicycle boulevards can also feature special wayfinding signage to nearby destinations or other bikeways.

- **Separated Bikeway (Class IV)** – Separated bikeways, also referred to as cycle tracks or protected bikeways, are bikeways for the exclusive use of bicycles which are physically separated from vehicle traffic. Separated Bikeways were recently adopted by Caltrans in 2015. Types of separation may include, but are not limited to, grade separation, flexible posts, physical barriers, or on-street parking.

Existing and proposed bicycle and pedestrian facilities in the Project vicinity are described below based on field observations and the *Fullerton Bicycle Master Plan (2012)*:

- Existing Class II bike facilities provide connections to the campus area on Associated Road, Dorothy Lane, and Commonwealth Avenue
- Nutwood Avenue does not have existing bicycle facilities. Class III facilities are planned on Yorba Linda Boulevard from State College Boulevard to Placentia Avenue.
- Yorba Linda Boulevard does not have existing bicycle facilities. Class III facilities are planned on Yorba Linda Boulevard from State College Boulevard to Associated Road.
- State College Boulevard does not have existing bicycle facilities and are not proposed in the future.
- A new bicycle overcrossing is proposed on SR 57, it would provide a Class I path and would connect the campus to Placentia Avenue.

Transit Facilities

Transit service in the study area is offered by CSU Fullerton, Orange County Transportation Authority (OCTA), Metrolink, and Amtrak. **Figure 1** shows the various transit routes within two miles of the Project providing access to the study area.

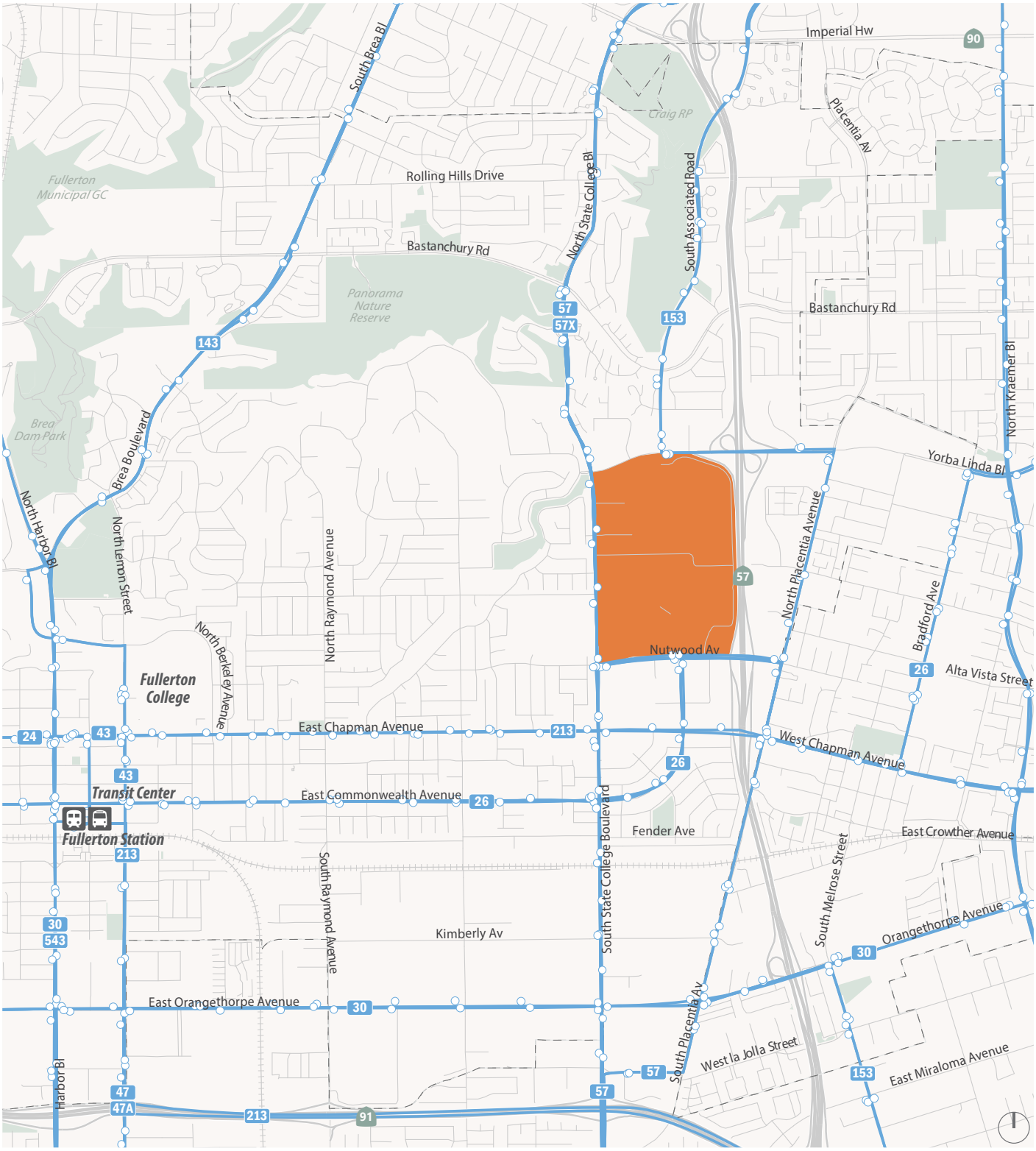


Figure 1

Existing Transit Facilities

OC19-0656_1_Transit

Campus Shuttle

CSU Fullerton offers a free shuttle from the First Evangelical Free Church parking lot at the northwest corner of Brea Boulevard and Bastanchury Road to the campus Parking and Transportation Services Office. The shuttle service runs every 10 to 15 minutes on Monday through Thursday between approximately 7:30 AM and 7:30 PM.

Orange County Transportation Authority

OCTA provides public transportation service throughout Orange County, California. OCTA bus routes within two miles of the Project site include:

Route 24 (Buena Park to Orange) runs weekdays between approximately 5:00 AM and 10:00 PM with headways of about 60 minutes. Route 24 does not operate on the weekend.

Route 26 (Fullerton to Placentia) runs weekdays between approximately 4:45 AM and 11:00 PM with variable headways of about 15 to 60 minutes. Route 26 runs on weekends and holidays between approximately 7:00 AM and 7:30 PM with variable headways of about 40 to 70 minutes.

Route 30 (Cerritos to Anaheim) runs weekdays between approximately 4:15 AM and 11:00 PM with variable headways of about 25 to 40 minutes. On weekends and holidays, it runs between approximately 6:15 AM and 9:00 PM with headways of about 65 minutes.

Route 43 (Fullerton to Costa Mesa) runs weekdays between approximately 3:45 AM and 1:45 AM with variable headways of about 15 to 60 minutes. On weekends and holidays, it runs between approximately 4:00 AM and 1:45 AM with variable headways of about 20 to 60 minutes.

Route 57/57X (Brea to Newport Beach) runs weekdays between approximately 3:55 AM and 2:15 AM with variable headways of about 15 to 60 minutes. On weekends and holidays, it runs between approximately 4:00 AM and 2:00 AM with variable headways of about 15 to 60 minutes. Route 57X is the express version of Route 57 with limited stops.

Route 129 (La Habra to Anaheim) runs weekdays between approximately 5:30 AM and 9:15 PM with variable headways of about 40 to 65 minutes. On Saturdays, it runs between approximately 6:00 AM and 9:15 PM with headways of about 35 to 60 minutes. On Sundays and holidays, it runs between approximately 7:00 AM and 8:15 PM with headways of about 45 to 55 minutes.

Route 143 (La Habra to Brea) runs weekdays between approximately 4:30 AM and 11:00 PM with variable headways of about 65 to 75 minutes. On Saturdays, it runs between approximately 6:15 AM and 9:30 PM

with headways of about 65 minutes. On Sundays and Holidays, it runs between approximately 6:15 AM and 8:15 PM with headways of about 65 minutes.

Route 153 (Brea to Anaheim) runs weekdays between approximately 4:20 AM and 10:25 PM with variable headways of about 60 to 70 minutes. On Saturdays, it runs between approximately 6:00 AM and 8:45 PM with variable headways of about 55 to 65 minutes. On Sundays and holidays, it runs between approximately 7:00 AM and 7:45 PM with variable headways of about 55 to 65 minutes.

Route 213 (Brea to Irvine Express) runs weekdays between approximately 5:10 AM and 7:25 AM in the morning from Brea to Irvine and between approximately 4:05 PM and 7:15 PM in the evening. Variable headways are about 5 to 35 minutes.

Metrolink and Amtrak Rail Service

Metrolink and Amtrak service the study area at the Fullerton Station. OCTA routes that connect to the Fullerton Station include Routes 26, 43, 47, 213, and BRAVO 543.

Metrolink - Orange County Line

Metrolink provides regional rail service in the Greater Los Angeles region. The Orange County line runs from Oceanside to Los Angeles between approximately 4:35 AM and 11:55 PM on weekdays and between approximately 8:15 AM and 8:00 PM on weekends. On weekdays, the Orange County line stops at the Fullerton Station between approximately 4:45 AM and 10:30 PM with variable headways of about 15 to 90 minutes. On weekends, the Orange County line stops at the Fullerton Station between approximately 9:15 AM and 7:00 PM with variable headways of about 120 to 130 minutes.

Amtrak - Pacific Surfliner

Amtrak provides rail service though California and other states. The Pacific Surfliner line that overlaps the Metrolink Orange County line runs daily between approximately 4:10 AM and 12:10 AM. The Pacific Surfliner stops at the Fullerton Station on weekdays between approximately 6:10 AM and 11:10 PM with variable headways of about 45 to 125 minutes. The Pacific Surfliner stops at the Fullerton Station on weekends between approximately 6:35 AM and 11:10 PM with variable headways of about 45 to 125 minutes.

Analysis Locations and Scenarios

The scope of the traffic analysis and selection of study roadway segments were developed in consultation with the Project team.

Figure 2 identifies the 13 study roadway segments:

1. State College Boulevard from State Route (SR) 91 to Fender Avenue
2. State College Boulevard from Fender Avenue to Nutwood Avenue
3. State College Boulevard from Nutwood Avenue to Yorba Linda Boulevard
4. State College Boulevard from Yorba Linda Boulevard to State Route (SR) 90
5. Nutwood Avenue from State College Boulevard to SR 57
6. Nutwood Avenue/Primrose Avenue from SR 57 to Bradford Avenue
7. Yorba Linda Boulevard from State College Boulevard to Placentia Avenue
8. E Chapman Avenue from State College Boulevard to SR 57
9. E Chapman Avenue from SR 57 to Bradford Avenue
10. Associated Road from SR 90 to Bastanchury Road
11. Associated Road from Bastanchury Road to Yorba Linda Boulevard
12. Commonwealth Avenue from Nutwood Avenue to Chapman Avenue
13. Commonwealth Avenue from Chapman Avenue to State College Boulevard

The study assumes the Project would be completed by year 2040 and is directed at analyzing the potential Roadway segment forecasts and VMT assessments are provided for the following scenarios in this study:

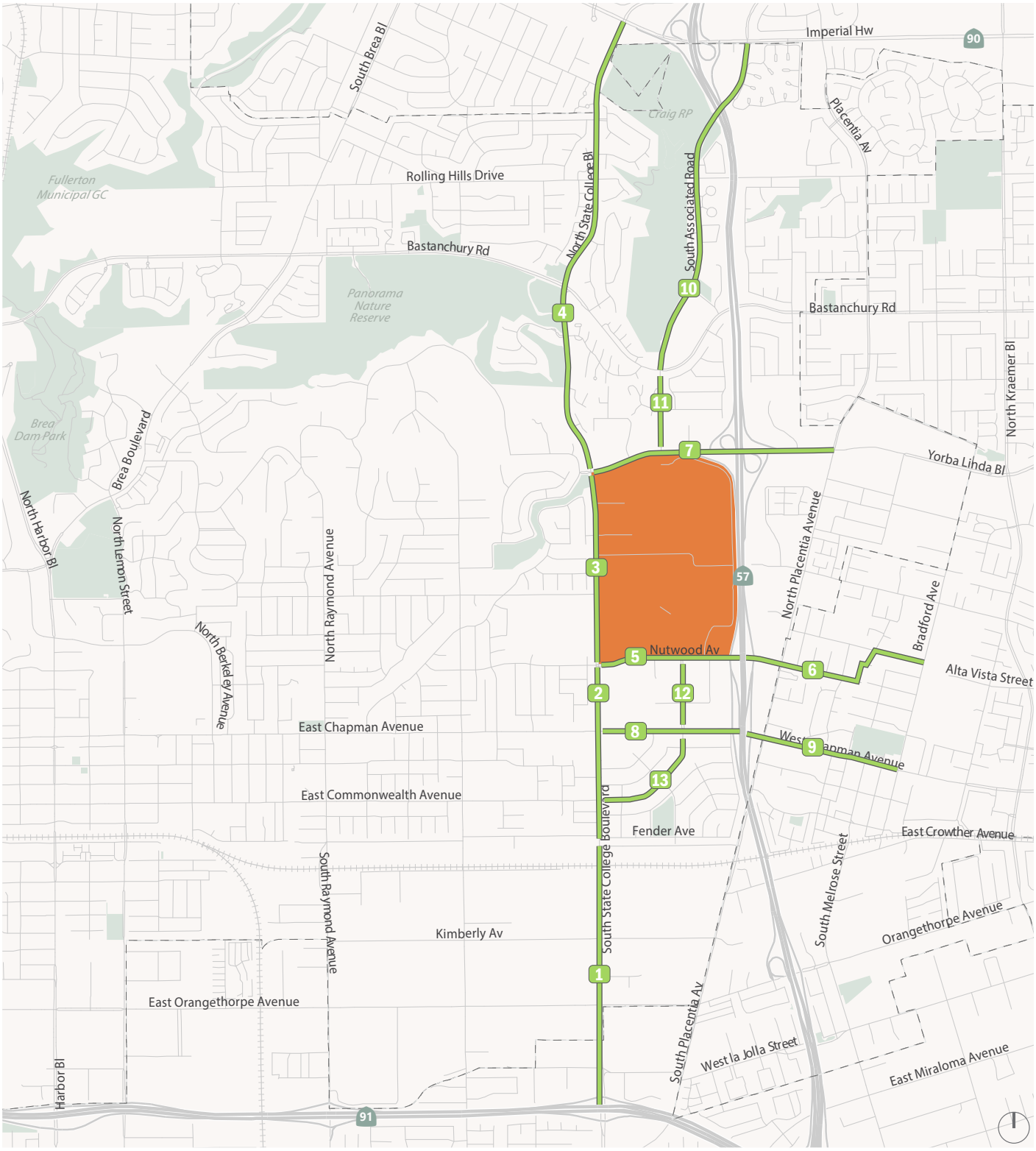
- Baseline (2019) No Project
- Baseline (2019) With Project
- Future Year (2040) No Project
- Future Year (2040) With Project

Table 1 below contains the land use inputs associated with each analysis scenario.

Table 1: 2019 Master Plan Students, Employees, and Housing Growth Forecasts

Scenario	Students	Employees	Students in University Housing	Students per Employee	Share of Students Living in University Housing
2019 Baseline No Project	25,000	5,594	2,829	4.46	11.3%
2019 Baseline Plus 2019 Master Plan	32,000	6,594	5,829	4.85	18.2%
2040 Cumulative No Project	25,000	5,594	2,829	4.46	11.3%
2040 Cumulative Plus 2019 Master Plan	32,000	6,594	5,829	4.85	18.2%

Source: CSU Fullerton, 2019, Fehr & Peers, 2019



Project Site # Study Segment

Figure 2

Project Site Vicinity and Analysis Locations

OC19-0656_2_StudySegs

2. Significance Criteria and Analysis Methodologies, and Results

Analysis Methods

The transportation impact analysis methodology includes a combination of quantitative and qualitative evaluations of the roadway, bicycle, pedestrian, and transit components of the transportation system. All analysis presumes that future background travel conditions remain relatively constant and do not account for potential changes associated with disruptive trends such as increased use of transportation networking companies (TNCs), which include Uber and Lyft, internet shopping, other internet related activities, automated vehicles (AVs), and micro-transit services.

The Orange County Regional Travel model (OCTAM) was used to forecast roadway segment volumes and estimate existing and future Vehicle Miles Traveled (VMT). This model is consistent with the 2016 SCAG RTP/SCS; it has a base year of 2019 and a forecast year of 2040. The 2019 Master Plan does not propose any substantive changes to the campus transportation network, so no changes were made to the baseline or cumulative networks, beyond those programmed in the RTP/SCS.

Regulatory Setting and Significance Criteria

The significance criteria used to evaluate the project impacts to transportation are based on the *California State University Transportation Impact Study Manual (March 2019)*. Specific criteria to be used for identifying potential transportation impacts are shown in Table 2.

Table 2: Significance Criteria

Impact Categories	CSU Significance Criteria
Plan Conflict	The project would conflict with a program, plan, ordinance or policy addressing the circulation system, including transit, roadways, bicycle and pedestrian facilities.
VMT Impacts[1]	The project would result in a VMT-related impact as described below
Hazard Impact	The project would substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment).
Emergency Access Impact	The project would result in inadequate emergency access.

Note: 1. Refer to Table 3
Source: *CSU TSM Guidelines, 2019*

For plan conflicts addressing the circulation system, a review of transit, roadways, bicycle and pedestrian facilities are provided in Chapter 4. For VMT impacts, the Transportation Impact Study manual recommends detailed thresholds for project and cumulative conditions as shown in Table 3. In this case, the Project proposes the addition of 4,000 commuter students, 3,000 resident students, and 1,000 employees, so it was analyzed as a mixed-use project.

Table 3: VMT Significance Thresholds

Impact Categories	CSU Significance Thresholds
Project Level Impacts	Residential Projects: VMT / Resident exceeds threshold of 15% below existing regional, sub-regional, or citywide VMT / Resident
	Office/Industrial: VMT / Employee exceeds threshold of 15% below existing regional, sub-regional, or citywide VMT / Employee
	Mixed-Use: VMT / Service Population[1] exceeds threshold of 15% below existing regional, sub-regional, or citywide VMT / Service Population
	Commuter Student Growth: VMT / Commuter Student exceeds threshold of 15% below existing regional, sub-regional, or citywide VMT / Commuter Student
	University Employment: VMT / Employee exceeds threshold of 15% below existing regional, sub-regional, or citywide VMT / Employee
Cumulative Impacts	Residential Projects: VMT / Resident under the "with project" condition exceeds the Citywide, regional or sub-regional VMT / Resident identified under the RTP/SCS condition
	Office/Industrial: VMT / Employee under the "with project" condition exceeds the Citywide, regional, or sub-regional VMT / Employee identified under the RTP/SCS condition
	Mixed-Use: VMT / Service Population[1] under the "with project" condition exceeds the Citywide, regional, or sub-regional VMT / Service Population identified under the RTP/SCS condition
	Commuter Student Growth: VMT / Commuter Student under the "with project" condition exceeds the Citywide, regional or sub-regional VMT / Commuter Student identified under the RTP/SCS condition
	University Employment: VMT / Employee under the "with project" condition exceeds the Citywide, regional, or sub-regional VMT / Employee identified under the RTP/SCS condition

Note: 1. Service population is typically defined as population plus employment. For campuses, service population is defined as population plus employment plus students. The transportation consultant shall not double count resident students twice in this evaluation (i.e., shall not count students that also live on campus).
Source: *CSU TSM Guidelines, 2019*

Existing Vehicle Miles Traveled (VMT) Analysis

OCTAM was used to estimate the existing VMT per Service Population for the CSU Fullerton campus and the City of Fullerton. Per the *California State University Transportation Impact Study Manual (March 2019),* students were included in the service population. However, students who reside on-campus are included in both the Campus and City populations but are not double counted as both students and residents in the calculation of service population.

VMT was estimated using the Origin/Destination method. This was completed by multiplying the OD trip tables and the final assignment skim matrices. The OD tables provided the number of trips between each Traffic Analysis Zone (TAZ), and the skim matrices provided the distance on the roadway network, or trip length, between each TAZ. The full length of all trips with an origin or destination in the TAZ representing the CSU Fullerton campus were used to estimate the campus VMT, and likewise the full length of all trips with an origin or destination in any of the TAZs representing the City of Fullerton were used to estimate the City VMT.

Table 4: Existing Vehicle Miles Traveled

Study Area	VMT Per Service Population
CSU Fullerton Campus	18.72
City of Fullerton	22.24

Note: Service population include residents, employees, and students.
Source: Fehr & Peers, 2019

As shown in Table 4, the existing CSU Fullerton campus produces a lower VMT per Service Population than the City of Fullerton. This is likely due to the reduction in trip and trip lengths associated with students living on campus and available transit services used to access the campus.

3. Impact Analysis

This chapter evaluates potential transportation impacts under Existing Plus Project and Cumulative Plus Project conditions.

Vehicle Miles Traveled

The OCTAM model was modified to include the Project to evaluate the impacts of the Project. The addition of 4,000 commuter students, 3,000 resident students, and 1,000 employees were isolated to assess the Project generated VMT per Service Population. Per the *California State University Transportation Impact Study Manual (March 2019),* students were included in the service population. However, students who reside on-campus and are included in the Campus and City populations were not counted as both students and residents.

The City of Fullerton VMT per Service Population was calculated for the existing condition using the OCTAM model to establish the citywide threshold. The existing and expanded campus both operate more efficiently with a lower VMT per Service Population than the existing citywide average. The Project generated VMT per Service Population from the campus expansion is lower than the existing campus VMT per Service Population. This is likely due to the VMT efficiency gained from having a higher proportion of students living on campus.

VMT was estimated using the Origin/Destination method. This was completed by multiplying the OD trip tables and the final assignment skim matrices. The OD tables provided the number of trips between each Traffic Analysis Zone (TAZ), and the skim matrices provided the distance on the roadway network, or trip length, between each TAZ. The full length of all trips with an origin or destination in the TAZ representing the expansion of the CSU Fullerton campus were used to estimate the project generated VMT.

Table 5: Existing Plus Project Vehicle Miles Traveled

	Existing VMT Per Service Population	Project Generated VMT Per Service Population
CSU Fullerton Campus	18.72	--
CSU Fullerton Campus Expansion (Project)[1]	--	14.38
City of Fullerton	22.24	--
15% Below City of Fullerton	18.90	--

Notes:

1. Campus growth only

Source: Fehr & Peers, 2019

As shown in Table 5**,** the Project generated VMT per service population does not exceed the threshold of 15% below citywide VMT per Service Population. Therefore, the Project has a less than significant impact in the Existing Plus Project conditions.

The 2040 OCTAM model was used to calculate the VMT Per Service Population for the City of Fullerton in the Cumulative condition. The Cumulative condition is consistent with the SCAG RTP/SCS.

The 2040 OCTAM model was modified to include the Project to evaluate cumulative project effect on citywide VMT under the Cumulative Plus Project condition. The addition of 4,000 commuter students, 3,000 resident students, and 1,000 employees were added to the existing campus to assess the project effect on citywide VMT per Service Population. Per the *California State University Transportation Impact Study Manual (March 2019),* students were included in the service population. However, students who reside on-campus and are included in the City populations were not counted as both students and residents.

VMT was estimated using the boundary method. This was completed by selecting all roadway segments in the OCTAM model within the City of Fullerton boundary, and multiplying the number of trips on each roadway segment by the length of that roadway segment.

Table 6: Cumulative Vehicle Miles Traveled

	Cumulative VMT Per Service Population	Project Effect on VMT Per Service Population
City of Fullerton	13.19	12.86

Source: Fehr & Peers, 2019

As shown in Table 6, the Citywide VMT per Service Population under the "with project" condition does not exceed the Citywide, identified under the RTP/SCS, condition. Therefore, the Project has a less than significant cumulative impact.

A summary of the VMT impacts is provided below:

- Project Level: The project generates VMT per Service Population that does not exceed 15 percent below the base year rate for the master plan area; therefore, the project impact is considered **less-than-significant.**
- Cumulative: The project generates VMT per Service Population does not cause total VMT for the City of Fullerton to exceed the 2040 forecast from the SCAG RTP/SCS; therefore, the project impact is considered **less-than-significant.**

Pedestrian and Bicycle Facilities

The potential impact to pedestrian bicycle facilities was evaluated based on whether the proposed project would physically disrupt an existing facility or interfere with the implementation of a planned facility. In addition, the proposed project was evaluated to determine if it would create potential conflicts with applicable policies, plans, or programs (as defined in the regulatory setting above) supporting bicycle use or pedestrian travel such that the conflict could reduce bicycle trips or increase conflicts between pedestrians, bicyclists or other modes.

A review of the project description did not identify any disruption to existing pedestrian or bicycle facilities.

New bicycle and pedestrian trips will be generated by campus growth commensurate with student, employee, and on-campus housing growth. Overall, the student and employee total would increase by 8,000 persons, while the number of on-campus residents would increase by 3,000 persons. Due to the highly walkable nature of the CSU Fullerton campus, every additional student, employee, and resident added to the campus population would generate a variety of on-campus pedestrian trips throughout a typical school day (e.g., walking trips to class, meals, social activities, etc.).

The proposed increase in on-campus housing would enable a greater percentage of students to walk to class or work compared to existing conditions. Moreover, increases in transit and vehicle commute trips would generate additional pedestrian trips between campus destinations and on-campus parking and transit facilities, as all transit and vehicle trips begin and end with a pedestrian trip.

Transit Service and Facilities

The potential impact to transit service or facilities was evaluated based on whether the proposed project would physically disrupt an existing facility/service or interfere with the implementation of a planned facility/service. In addition, the proposed project was evaluated to determine if it would create potential conflicts with applicable policies, plans, or programs (as defined in the regulatory setting above) supporting transit such that the conflict could reduce transit trips or increase conflicts with other modes.

A review of the project description did not identify any disruption to existing transit facilities. New transit trips will be generated by campus growth commensurate with growth in students and employees. No proposed development would modify a transit stop location or affect transit headways.

Additional transit ridership demand would increase boarding and alighting activity at existing bus stops and transit terminals located on campus and at the Fullerton Metrolink Station.

Hazards

Hazard impacts were analyzed based on the inclusion of any specific design components that would create a hazardous condition, or change land use relative to the land use context and mix of travel such that the volume, mix, or speed of traffic was not anticipated as part of the original transportation network design.

The development included in the 2019 Master Plan is infill development consistent with the existing land use context. As such, it will generate a mix of traffic that is similar today. With more students and employees, the volume of traffic across modes will increase and this may result in slower travel speeds for some modes. These changes did not cause conditions that warranted modification of the existing network as part of the 2019 Master Plan. Any new sidewalk or paths will be designed and constructed to applicable design standards to minimize hazardous conditions and will be environmentally reviewed for project scale hazards when the project advances through the project development process.

Emergency Access

Project-level details of planned development are not included in the 2019 Master Plan. As part of project-level environmental review, input from emergency services should be solicited to ensure that emergency access is acceptable. Every CSU project is also required to follow the State University Administrative Manual (SUAM) which requires the State Fire Marshal to review all projects prior to implementation. During this review, possible emergency access impacts will be identified and resolved.

Mitigation Measures

There are no significant impacts, therefore no mitigation measures are required.

4. Traffic Volumes

48-hour roadway segment counts were collected from September 24, 2019 – September 25, 2019. Roadway segment counts were collected on all study segments on a weekday while schools were in session. The traffic counts for Existing Conditions are provided in **Appendix A**.

The OCTAM model was modified to include the Project to evaluate the impacts of the Project. The traffic volume due to the addition of 4,000 commuter students, 3,000 resident students, and 1,000 employees was established by running a Select Zone Analysis in the travel demand model. This isolated the daily volume on each study roadway segment that was added due to the Project. This volume was added to the traffic counts to produce Existing Plus Project traffic volumes.

Cumulative and Cumulative Plus Project traffic volumes were forecasted in a similar manner using the 2040 OCTAM model.

For Cumulative traffic volumes, the volume forecasts from the model were adjusted to account for differences between the model's base year volume estimates and observed traffic counts. The adjustment involved isolating the incremental change in volumes between the base year model and the future year model and adding that difference to the base year traffic counts. For Cumulative Plus Project, the traffic volume due to the addition of 4,000 commuter students, 3,000 resident students, and 1,000 employees was established by running the model with the Project land use.

The daily traffic volumes at the study locations for all analysis scenarios are presented below in Table 7.

Table 7: Daily Traffic Volumes

Segment	Existing (2019) Count	Existing (2019) Plus Project	Cumulative (2040)	Cumulative (2040) Plus Project
1. State College Boulevard from State Route (SR) 91 to Fender Avenue	22,952	25,030	24,830	25,850
2. State College Boulevard from Fender Avenue to Nutwood Avenue	24,321	26,640	25,470	26,650
3. State College Boulevard from Nutwood Avenue to Yorba Linda Boulevard	30,625	30,870	34,960	34,970
4. State College Boulevard from Yorba Linda Boulevard to State Route (SR) 90	25,097	25,220	27,730	28,100
5. Nutwood Avenue from State College Boulevard to SR 57	21,796	25,540	22,130	24,770
6. Nutwood Avenue/Primrose Avenue from SR 57 to Bradford Avenue	1,494	1,630	3,390	3,400
7. Yorba Linda Boulevard from State College Boulevard to Placentia Avenue	38,598	41,890	40,050	41,730
8. E Chapman Avenue from State College Boulevard to SR 57	34,801	34,810	36,850	36,860
9. E Chapman Avenue from SR 57 to Bradford Avenue	24,067	24,640	28,030	28,210
10. Associated Road from SR 90 to Bastanchury Road	11,929	12,370	13,270	13,430
11. Associated Road from Bastanchury Road to Yorba Linda Boulevard	23,795	26,120	24,870	25,650
12. Commonwealth Avenue from Nutwood Avenue to Chapman Avenue	10,190	11,280	11,980	13,310
13. Commonwealth Avenue from Chapman Avenue to State College Boulevard	9,287	9,430	12,400	12,410

Source: Fehr & Peers, 2019

Appendix A:
Traffic Counts

Prepared by National Data & Surveying Services

VOLUME

State College Blvd Bet. SR-91 & Fender Ave

Day: Tuesday
Date: 9/24/2019

City: Fullerton
Project #: CA19_1188_001

DAILY TOTALS	NB	SB	EB	WB	Total
	9,835	12,825	0	0	22,660

AM Period	NB		SB		EB		WB		TOTAL		PM Period	NB		SB		EB		WB		TOTAL	
00:00	24		21						45		12:00	172		161						333	
00:15	14		14						28		12:15	126		157						283	
00:30	12		20						32		12:30	152		151						303	
00:45	20	70	15	70					35	140	12:45	132	582	246	715					378	1297
01:00	12		12						24		13:00	122		226						348	
01:15	7		8						15		13:15	128		187						315	
01:30	6		12						18		13:30	136		196						332	
01:45	8	33	5	37					13	70	13:45	146	532	180	789					326	1321
02:00	7		11						18		14:00	140		186						326	
02:15	4		6						10		14:15	105		232						337	
02:30	3		11						14		14:30	130		282						412	
02:45	6	20	6	34					12	54	14:45	142	517	208	908					350	1425
03:00	6		9						15		15:00	149		208						357	
03:15	4		6						10		15:15	140		215						355	
03:30	8		14						22		15:30	170		221						391	
03:45	21	39	16	45					37	84	15:45	175	634	227	871					402	1505
04:00	16		21						37		16:00	143		319						462	
04:15	18		15						33		16:15	141		275						416	
04:30	21		32						53		16:30	176		250						426	
04:45	48	103	39	107					87	210	16:45	176	636	218	1062					394	1698
05:00	22		25						47		17:00	216		277						493	
05:15	36		31						67		17:15	210		254						464	
05:30	58		52						110		17:30	167		271						438	
05:45	49	165	73	181					122	346	17:45	169	762	233	1035					402	1797
06:00	76		113						189		18:00	175		199						374	
06:15	97		127						224		18:15	185		169						354	
06:30	121		187						308		18:30	185		191						376	
06:45	162	456	189	616					351	1072	18:45	147	692	223	782					370	1474
07:00	168		231						399		19:00	124		283						407	
07:15	218		255						473		19:15	100		170						270	
07:30	243		246						489		19:30	80		115						195	
07:45	256	885	223	955					479	1840	19:45	111	415	101	669					212	1084
08:00	231		210						441		20:00	82		133						215	
08:15	165		208						373		20:15	73		100						173	
08:30	170		212						382		20:30	56		104						160	
08:45	148	714	179	809					327	1523	20:45	73	284	92	429					165	713
09:00	148		156						304		21:00	57		91						148	
09:15	151		152						303		21:15	73		104						177	
09:30	140		154						294		21:30	44		92						136	
09:45	125	564	160	622					285	1186	21:45	63	237	95	382					158	619
10:00	115		173						288		22:00	60		91						151	
10:15	106		132						238		22:15	85		66						151	
10:30	124		127						251		22:30	105		43						148	
10:45	132	477	154	586					286	1063	22:45	98	348	43	243					141	591
11:00	152		134						286		23:00	58		53						111	
11:15	115		182						297		23:15	33		31						64	
11:30	128		223						351		23:30	35		44						79	
11:45	131	526	192	731					323	1257	23:45	18	144	19	147					37	291
TOTALS		4052		4793						8845	TOTALS		5783		8032						13815
SPLIT %		45.8%		54.2%						39.0%	SPLIT %		41.9%		58.1%						61.0%

DAILY TOTALS	NB	SB	EB	WB	Total
	9,835	12,825	0	0	22,660

AM Peak Hour	07:15	07:00			07:15	PM Peak Hour	16:30	15:45			17:00
AM Pk Volume	948	955			1882	PM Pk Volume	778	1071			1797
Pk Hr Factor	0.926	0.936			0.962	Pk Hr Factor	0.900	0.839			0.911
7 - 9 Volume	1599	1764	0	0	3363	4 - 6 Volume	1398	2097	0	0	3495
7 - 9 Peak Hour	07:15	07:00			07:15	4 - 6 Peak Hour	16:30	16:00			17:00
7 - 9 Pk Volume	948	955	0	0	1882	4 - 6 Pk Volume	778	1062	0	0	1797
Pk Hr Factor	0.926	0.936	0.000	0.000	0.962	Pk Hr Factor	0.900	0.832	0.000	0.000	0.911

Prepared by National Data & Surveying Services

VOLUME

State College Blvd Bet. SR-91 & Fender Ave

Day: Wednesday
Date: 9/25/2019

City: Fullerton
Project #: CA19_1188_001

DAILY TOTALS	NB	SB	EB	WB	Total
	9,933	13,311	0	0	23,244

AM Period	NB		SB		EB		WB		TOTAL		PM Period	NB		SB		EB		WB		TOTAL	
00:00	27		31						58		12:00	151		174						325	
00:15	51		11						62		12:15	130		146						276	
00:30	28		22						50		12:30	129		175						304	
00:45	10	116	23	87					33	203	12:45	129	539	204	699					333	1238
01:00	14		11						25		13:00	132		215						347	
01:15	13		7						20		13:15	119		154						273	
01:30	6		12						18		13:30	154		157						311	
01:45	16	49	8	38					24	87	13:45	127	532	174	700					301	1232
02:00	7		13						20		14:00	139		212						351	
02:15	5		14						19		14:15	124		221						345	
02:30	5		15						20		14:30	151		275						426	
02:45	8	25	5	47					13	72	14:45	124	538	245	953					369	1491
03:00	2		7						9		15:00	136		240						376	
03:15	7		7						14		15:15	160		236						396	
03:30	12		3						15		15:30	150		264						414	
03:45	11	32	15	32					26	64	15:45	210	656	269	1009					479	1665
04:00	17		22						39		16:00	172		334						506	
04:15	15		11						26		16:15	157		288						445	
04:30	23		21						44		16:30	191		261						452	
04:45	39	94	45	99					84	193	16:45	179	699	236	1119					415	1818
05:00	40		27						67		17:00	238		248						486	
05:15	41		25						66		17:15	179		249						428	
05:30	48		46						94		17:30	167		269						436	
05:45	74	203	63	161					137	364	17:45	161	745	195	961					356	1706
06:00	66		107						173		18:00	167		203						370	
06:15	83		129						212		18:15	173		221						394	
06:30	111		174						285		18:30	164		214						378	
06:45	149	409	208	618					357	1027	18:45	138	642	219	857					357	1499
07:00	174		234						408		19:00	123		273						396	
07:15	230		249						479		19:15	111		190						301	
07:30	242		240						482		19:30	100		143						243	
07:45	268	914	230	953					498	1867	19:45	94	428	87	693					181	1121
08:00	217		201						418		20:00	75		112						187	
08:15	151		196						347		20:15	65		112						177	
08:30	135		177						312		20:30	60		89						149	
08:45	146	649	160	734					306	1383	20:45	63	263	103	416					166	679
09:00	141		145						286		21:00	60		121						181	
09:15	118		172						290		21:15	68		174						242	
09:30	160		154						314		21:30	63		181						244	
09:45	121	540	150	621					271	1161	21:45	63	254	178	654					241	908
10:00	125		156						281		22:00	64		161						225	
10:15	136		144						280		22:15	70		114						184	
10:30	130		145						275		22:30	117		79						196	
10:45	119	510	128	573					247	1083	22:45	101	352	48	402					149	754
11:00	146		157						303		23:00	78		41						119	
11:15	140		206						346		23:15	40		37						77	
11:30	135		187						322		23:30	40		45						85	
11:45	135	556	179	729					314	1285	23:45	30	188	33	156					63	344
TOTALS		4097		4692						8789	TOTALS		5836		8619						14455
SPLIT %		46.6%		53.4%						37.8%	SPLIT %		40.4%		59.6%						62.2%

DAILY TOTALS	NB	SB	EB	WB	Total
	9,933	13,311	0	0	23,244

AM Peak Hour	07:15	07:00			07:15	PM Peak Hour	16:30	15:30			15:45
AM Pk Volume	957	953			1877	PM Pk Volume	787	1155			1882
Pk Hr Factor	0.893	0.957			0.942	Pk Hr Factor	0.827	0.865			0.930
7 - 9 Volume	1563	1687	0	0	3250	4 - 6 Volume	1444	2080	0	0	3524
7 - 9 Peak Hour	07:15	07:00			07:15	4 - 6 Peak Hour	16:30	16:00			16:00
7 - 9 Pk Volume	957	953	0	0	1877	4 - 6 Pk Volume	787	1119	0	0	1818
Pk Hr Factor	0.893	0.957	0.000	0.000	0.942	Pk Hr Factor	0.827	0.838	0.000	0.000	0.898

Prepared by National Data & Surveying Services

VOLUME

State College Blvd Bet. Fender Ave & Nutwood Ave

Day: Tuesday
Date: 9/24/2019

City: Fullerton
Project #: CA19_1188_002

DAILY TOTALS	NB	SB	EB	WB	Total
	10,852	13,114	0	0	23,966

AM Period	NB		SB		EB		WB		TOTAL		PM Period	NB		SB		EB		WB		TOTAL	
00:00	27		24						51		12:00	203		188						391	
00:15	21		12						33		12:15	171		165						336	
00:30	11		12						23		12:30	200		178						378	
00:45	13	72	10	58					23	130	12:45	150	724	236	767					386	1491
01:00	17		4						21		13:00	136		246						382	
01:15	10		12						22		13:15	172		197						369	
01:30	8		6						14		13:30	145		202						347	
01:45	10	45	4	26					14	71	13:45	168	621	170	815					338	1436
02:00	7		2						9		14:00	152		164						316	
02:15	3		5						8		14:15	144		224						368	
02:30	2		6						8		14:30	168		270						438	
02:45	5	17	5	18					10	35	14:45	168	632	242	900					410	1532
03:00	5		5						10		15:00	209		181						390	
03:15	4		4						8		15:15	198		219						417	
03:30	5		7						12		15:30	205		195						400	
03:45	8	22	10	26					18	48	15:45	202	814	234	829					436	1643
04:00	10		8						18		16:00	171		254						425	
04:15	6		12						18		16:15	154		276						430	
04:30	10		17						27		16:30	211		230						441	
04:45	20	46	31	68					51	114	16:45	180	716	237	997					417	1713
05:00	10		29						39		17:00	255		259						514	
05:15	19		31						50		17:15	240		289						529	
05:30	27		54						81		17:30	223		264						487	
05:45	39	95	88	202					127	297	17:45	197	915	252	1064					449	1979
06:00	53		95						148		18:00	219		215						434	
06:15	80		123						203		18:15	200		183						383	
06:30	129		171						300		18:30	190		209						399	
06:45	170	432	205	594					375	1026	18:45	164	773	252	859					416	1632
07:00	152		228						380		19:00	124		278						402	
07:15	196		239						435		19:15	117		202						319	
07:30	285		275						560		19:30	120		132						252	
07:45	294	927	250	992					544	1919	19:45	113	474	120	732					233	1206
08:00	252		254						506		20:00	106		137						243	
08:15	182		226						408		20:15	92		125						217	
08:30	170		216						386		20:30	84		109						193	
08:45	143	747	198	894					341	1641	20:45	80	362	96	467					176	829
09:00	154		184						338		21:00	74		111						185	
09:15	153		168						321		21:15	86		107						193	
09:30	160		175						335		21:30	70		79						149	
09:45	133	600	194	721					327	1321	21:45	67	297	103	400					170	697
10:00	119		165						284		22:00	71		94						165	
10:15	120		140						260		22:15	91		65						156	
10:30	135		134						269		22:30	88		40						128	
10:45	132	506	150	589					282	1095	22:45	69	319	36	235					105	554
11:00	147		154						301		23:00	49		33						82	
11:15	147		181						328		23:15	33		34						67	
11:30	145		210						355		23:30	37		33						70	
11:45	117	556	191	736					308	1292	23:45	21	140	25	125					46	265
TOTALS		4065		4924						8989	TOTALS		6787		8190						14977
SPLIT %		45.2%		54.8%						37.5%	SPLIT %		45.3%		54.7%						62.5%

DAILY TOTALS	NB	SB	EB	WB	Total
	10,852	13,114	0	0	23,966

AM Peak Hour	07:15	07:15			07:15	PM Peak Hour	17:00	17:00			17:00
AM Pk Volume	1027	1018			2045	PM Pk Volume	915	1064			1979
Pk Hr Factor	0.873	0.925			0.913	Pk Hr Factor	0.897	0.920			0.935
7 - 9 Volume	1674	1886	0	0	3560	4 - 6 Volume	1631	2061	0	0	3692
7 - 9 Peak Hour	07:15	07:15			07:15	4 - 6 Peak Hour	17:00	17:00			17:00
7 - 9 Pk Volume	1027	1018	0	0	2045	4 - 6 Pk Volume	915	1064	0	0	1979
Pk Hr Factor	0.873	0.925	0.000	0.000	0.913	Pk Hr Factor	0.897	0.920	0.000	0.000	0.935

Prepared by National Data & Surveying Services

VOLUME

State College Blvd Bet. Fender Ave & Nutwood Ave

Day: Wednesday
Date: 9/25/2019

City: Fullerton
Project #: CA19_1188_002

DAILY TOTALS	NB	SB	EB	WB	Total
	11,038	13,637	0	0	24,675

AM Period	NB		SB		EB		WB		TOTAL		PM Period	NB		SB		EB		WB		TOTAL	
00:00	33		21						54		12:00	179		175						354	
00:15	54		20						74		12:15	190		157						347	
00:30	32		15						47		12:30	171		192						363	
00:45	10	129	14	70					24	199	12:45	154	694	199	723					353	1417
01:00	19		9						28		13:00	150		226						376	
01:15	11		9						20		13:15	136		184						320	
01:30	12		7						19		13:30	170		166						336	
01:45	12	54	4	29					16	83	13:45	161	617	159	735					320	1352
02:00	8		8						16		14:00	169		222						391	
02:15	5		5						10		14:15	146		208						354	
02:30	5		13						18		14:30	195		247						442	
02:45	6	24	6	32					12	56	14:45	131	641	238	915					369	1556
03:00	6		3						9		15:00	189		212						401	
03:15	4		7						11		15:15	199		251						450	
03:30	7		5						12		15:30	208		225						433	
03:45	8	25	12	27					20	52	15:45	229	825	306	994					535	1819
04:00	7		12						19		16:00	208		297						505	
04:15	11		12						23		16:15	191		299						490	
04:30	11		27						38		16:30	202		264						466	
04:45	14	43	41	92					55	135	16:45	211	812	230	1090					441	1902
05:00	17		18						35		17:00	250		245						495	
05:15	24		28						52		17:15	212		290						502	
05:30	30		55						85		17:30	184		274						458	
05:45	42	113	90	191					132	304	17:45	202	848	228	1037					430	1885
06:00	47		101						148		18:00	189		227						416	
06:15	66		132						198		18:15	206		229						435	
06:30	124		188						312		18:30	200		235						435	
06:45	145	382	205	626					350	1008	18:45	159	754	255	946					414	1700
07:00	169		228						397		19:00	147		263						410	
07:15	230		227						457		19:15	130		190						320	
07:30	267		228						495		19:30	137		143						280	
07:45	298	964	248	931					546	1895	19:45	96	510	104	700					200	1210
08:00	233		222						455		20:00	95		120						215	
08:15	164		215						379		20:15	82		119						201	
08:30	153		195						348		20:30	78		107						185	
08:45	170	720	189	821					359	1541	20:45	80	335	124	470					204	805
09:00	133		188						321		21:00	75		142						217	
09:15	139		156						295		21:15	74		190						264	
09:30	186		145						331		21:30	67		191						258	
09:45	137	595	162	651					299	1246	21:45	73	289	183	706					256	995
10:00	109		178						287		22:00	67		152						219	
10:15	133		165						298		22:15	82		109						191	
10:30	134		114						248		22:30	119		61						180	
10:45	125	501	142	599					267	1100	22:45	90	358	44	366					134	724
11:00	152		176						328		23:00	66		38						104	
11:15	158		188						346		23:15	43		40						83	
11:30	148		197						345		23:30	37		34						71	
11:45	162	620	182	743					344	1363	23:45	39	185	31	143					70	328
TOTALS		4170		4812						8982	TOTALS		6868		8825						15693
SPLIT %		46.4%		53.6%						36.4%	SPLIT %		43.8%		56.2%						63.6%

DAILY TOTALS	NB	SB	EB	WB	Total
	11,038	13,637	0	0	24,675

AM Peak Hour	07:15	07:00			07:15	PM Peak Hour	16:30	15:45			15:45
AM Pk Volume	1028	931			1953	PM Pk Volume	875	1166			1996
Pk Hr Factor	0.862	0.939			0.894	Pk Hr Factor	0.875	0.953			0.933
7 - 9 Volume	1684	1752	0	0	3436	4 - 6 Volume	1660	2127	0	0	3787
7 - 9 Peak Hour	07:15	07:00			07:15	4 - 6 Peak Hour	16:30	16:00			16:30
7 - 9 Pk Volume	1028	931	0	0	1953	4 - 6 Pk Volume	875	1090	0	0	1904
Pk Hr Factor	0.862	0.939	0.000	0.000	0.894	Pk Hr Factor	0.875	0.911	0.000	0.000	0.948

Prepared by National Data & Surveying Services

VOLUME

State College Blvd Bet. Nutwood Ave & Yorba Linda Blvd

Day: Tuesday
Date: 9/24/2019

City: Fullerton
Project #: CA19_1188_003

DAILY TOTALS	NB	SB	EB	WB	Total
	18,200	11,611	0	0	29,811

AM Period	NB		SB		EB		WB		TOTAL		PM Period	NB		SB		EB		WB		TOTAL	
00:00	41		13						54		12:00	229		146						375	
00:15	18		13						31		12:15	234		136						370	
00:30	18		14						32		12:30	262		145						407	
00:45	13	90	9	49					22	139	12:45	329	1054	152	579					481	1633
01:00	14		5						19		13:00	379		138						517	
01:15	9		7						16		13:15	259		151						410	
01:30	9		7						16		13:30	260		156						416	
01:45	7	39	2	21					9	60	13:45	237	1135	161	606					398	1741
02:00	9		3						12		14:00	284		139						423	
02:15	5		3						8		14:15	361		150						511	
02:30	2		5						7		14:30	400		206						606	
02:45	2	18	2	13					4	31	14:45	270	1315	208	703					478	2018
03:00	6		4						10		15:00	387		230						617	
03:15	4		3						7		15:15	394		198						592	
03:30	8		3						11		15:30	308		184						492	
03:45	9	27	8	18					17	45	15:45	438	1527	189	801					627	2328
04:00	9		12						21		16:00	478		192						670	
04:15	5		11						16		16:15	389		222						611	
04:30	9		9						18		16:30	329		213						542	
04:45	21	44	16	48					37	92	16:45	330	1526	200	827					530	2353
05:00	24		19						43		17:00	393		220						613	
05:15	19		29						48		17:15	472		235						707	
05:30	24		37						61		17:30	455		206						661	
05:45	39	106	72	157					111	263	17:45	400	1720	243	904					643	2624
06:00	39		97						136		18:00	355		182						537	
06:15	51		130						181		18:15	367		213						580	
06:30	121		302						423		18:30	383		207						590	
06:45	253	464	340	869					593	1333	18:45	408	1513	184	786					592	2299
07:00	162		192						354		19:00	427		161						588	
07:15	134		260						394		19:15	253		133						386	
07:30	173		383						556		19:30	216		103						319	
07:45	194	663	291	1126					485	1789	19:45	211	1107	96	493					307	1600
08:00	235		291						526		20:00	196		79						275	
08:15	239		244						483		20:15	199		95						294	
08:30	203		251						454		20:30	173		95						268	
08:45	202	879	211	997					413	1876	20:45	149	717	82	351					231	1068
09:00	207		180						387		21:00	169		79						248	
09:15	210		182						392		21:15	227		61						288	
09:30	247		184						431		21:30	181		64						245	
09:45	267	931	166	712					433	1643	21:45	192	769	46	250					238	1019
10:00	210		128						338		22:00	215		58						273	
10:15	167		121						288		22:15	159		33						192	
10:30	144		118						262		22:30	131		30						161	
10:45	190	711	123	490					313	1201	22:45	109	614	26	147					135	761
11:00	199		115						314		23:00	98		30						128	
11:15	258		155						413		23:15	72		24						96	
11:30	246		143						389		23:30	72		25						97	
11:45	223	926	157	570					380	1496	23:45	63	305	15	94					78	399
TOTALS		4898		5070						9968	TOTALS		13302		6541						19843
SPLIT %		49.1%		50.9%						33.4%	SPLIT %		67.0%		33.0%						66.6%

DAILY TOTALS	NB	SB	EB	WB	Total
	18,200	11,611	0	0	29,811

AM Peak Hour	11:15	07:15			07:30	PM Peak Hour	17:00	17:00			17:00
AM Pk Volume	956	1225			2050	PM Pk Volume	1720	904			2624
Pk Hr Factor	0.926	0.800			0.922	Pk Hr Factor	0.911	0.930			0.928
7 - 9 Volume	1542	2123	0	0	3665	4 - 6 Volume	3246	1731	0	0	4977
7 - 9 Peak Hour	08:00	07:15			07:30	4 - 6 Peak Hour	17:00	17:00			17:00
7 - 9 Pk Volume	879	1225	0	0	2050	4 - 6 Pk Volume	1720	904	0	0	2624
Pk Hr Factor	0.919	0.800	0.000	0.000	0.922	Pk Hr Factor	0.911	0.930	0.000	0.000	0.928

Prepared by National Data & Surveying Services

VOLUME

State College Blvd Bet. Nutwood Ave & Yorba Linda Blvd

Day: Wednesday
Date: 9/25/2019

City: Fullerton
Project #: CA19_1188_003

DAILY TOTALS	NB	SB	EB	WB	Total
	18,598	12,840	0	0	31,438

AM Period	NB		SB		EB		WB		TOTAL		PM Period	NB		SB		EB		WB		TOTAL	
00:00	89		17						106		12:00	239		148						387	
00:15	66		8						74		12:15	218		155						373	
00:30	49		9						58		12:30	260		160						420	
00:45	20	224	6	40					26	264	12:45	364	1081	168	631					532	1712
01:00	21		4						25		13:00	335		168						503	
01:15	16		3						19		13:15	239		147						386	
01:30	14		3						17		13:30	234		138						372	
01:45	14	65	3	13					17	78	13:45	214	1022	164	617					378	1639
02:00	9		7						16		14:00	282		180						462	
02:15	10		4						14		14:15	363		159						522	
02:30	4		7						11		14:30	356		188						544	
02:45	8	31	5	23					13	54	14:45	258	1259	255	782					513	2041
03:00	7		3						10		15:00	313		272						585	
03:15	5		1						6		15:15	415		271						686	
03:30	8		1						9		15:30	353		249						602	
03:45	6	26	9	14					15	40	15:45	453	1534	267	1059					720	2593
04:00	4		8						12		16:00	505		227						732	
04:15	11		13						24		16:15	341		226						567	
04:30	11		10						21		16:30	360		206						566	
04:45	22	48	20	51					42	99	16:45	356	1562	226	885					582	2447
05:00	20		15						35		17:00	427		223						650	
05:15	25		26						51		17:15	514		214						728	
05:30	23		44						67		17:30	424		236						660	
05:45	41	109	78	163					119	272	17:45	344	1709	227	900					571	2609
06:00	36		110						146		18:00	385		202						587	
06:15	51		146						197		18:15	332		210						542	
06:30	110		344						454		18:30	353		263						616	
06:45	262	459	408	1008					670	1467	18:45	426	1496	218	893					644	2389
07:00	181		200						381		19:00	437		220						657	
07:15	114		361						475		19:15	251		127						378	
07:30	162		370						532		19:30	227		104						331	
07:45	217	674	266	1197					483	1871	19:45	184	1099	97	548					281	1647
08:00	211		231						442		20:00	202		84						286	
08:15	223		253						476		20:15	228		103						331	
08:30	200		231						431		20:30	198		74						272	
08:45	202	836	238	953					440	1789	20:45	174	802	98	359					272	1161
09:00	227		173						400		21:00	194		121						315	
09:15	241		162						403		21:15	177		150						327	
09:30	209		164						373		21:30	223		109						332	
09:45	261	938	170	669					431	1607	21:45	183	777	113	493					296	1270
10:00	184		140						324		22:00	201		119						320	
10:15	199		141						340		22:15	154		62						216	
10:30	179		137						316		22:30	146		32						178	
10:45	219	781	146	564					365	1345	22:45	184	685	37	250					221	935
11:00	221		178						399		23:00	137		33						170	
11:15	282		150						432		23:15	104		35						139	
11:30	265		159						424		23:30	77		16						93	
11:45	250	1018	141	628					391	1646	23:45	45	363	16	100					61	463
TOTALS		5209		5323						10532	TOTALS		13389		7517						20906
SPLIT %		49.5%		50.5%						33.5%	SPLIT %		64.0%		36.0%						66.5%

DAILY TOTALS	NB	SB	EB	WB	Total
	18,598	12,840	0	0	31,438

AM Peak Hour	11:15	06:45			06:45	PM Peak Hour	15:15	15:00			15:15
AM Pk Volume	1036	1339			2058	PM Pk Volume	1726	1059			2740
Pk Hr Factor	0.918	0.820			0.768	Pk Hr Factor	0.854	0.973			0.936
7 - 9 Volume	1510	2150	0	0	3660	4 - 6 Volume	3271	1785	0	0	5056
7 - 9 Peak Hour	07:45	07:15			07:30	4 - 6 Peak Hour	16:45	17:00			16:45
7 - 9 Pk Volume	851	1228	0	0	1933	4 - 6 Pk Volume	1721	900	0	0	2620
Pk Hr Factor	0.954	0.830	0.000	0.000	0.908	Pk Hr Factor	0.837	0.953	0.000	0.000	0.900

Prepared by National Data & Surveying Services

VOLUME

State College Blvd Bet. Yorba Linda Blvd & Bastanchury Rd

Day: Tuesday
Date: 9/24/2019

City: Fullerton
Project #: CA19_1188_004

DAILY TOTALS	NB	SB	EB	WB	Total
	13,483	11,617	0	0	25,100

AM Period	NB		SB		EB		WB		TOTAL		PM Period	NB		SB		EB		WB		TOTAL	
00:00	18		14						32		12:00	201		128						329	
00:15	17		9						26		12:15	176		132						308	
00:30	13		9						22		12:30	180		146						326	
00:45	13	61	6	38					19	99	12:45	263	820	129	535					392	1355
01:00	13		7						20		13:00	305		115						420	
01:15	4		7						11		13:15	185		129						314	
01:30	9		3						12		13:30	208		153						361	
01:45	2	28	2	19					4	47	13:45	189	887	156	553					345	1440
02:00	11		3						14		14:00	214		166						380	
02:15	5		1						6		14:15	232		152						384	
02:30	2		1						3		14:30	279		165						444	
02:45	6	24	2	7					8	31	14:45	243	968	189	672					432	1640
03:00	4		5						9		15:00	277		226						503	
03:15	5		2						7		15:15	342		211						553	
03:30	7		5						12		15:30	262		189						451	
03:45	11	27	4	16					15	43	15:45	319	1200	194	820					513	2020
04:00	5		11						16		16:00	418		187						605	
04:15	8		6						14		16:15	303		179						482	
04:30	9		18						27		16:30	310		210						520	
04:45	9	31	14	49					23	80	16:45	298	1329	211	787					509	2116
05:00	15		25						40		17:00	338		198						536	
05:15	14		48						62		17:15	372		171						543	
05:30	15		38						53		17:30	406		171						577	
05:45	25	69	77	188					102	257	17:45	309	1425	199	739					508	2164
06:00	40		118						158		18:00	272		168						440	
06:15	43		193						236		18:15	251		152						403	
06:30	78		294						372		18:30	248		171						419	
06:45	153	314	348	953					501	1267	18:45	285	1056	129	620					414	1676
07:00	124		266						390		19:00	254		130						384	
07:15	108		333						441		19:15	174		133						307	
07:30	144		373						517		19:30	152		101						253	
07:45	172	548	387	1359					559	1907	19:45	125	705	100	464					225	1169
08:00	170		320						490		20:00	126		69						195	
08:15	127		286						413		20:15	120		76						196	
08:30	154		273						427		20:30	114		61						175	
08:45	133	584	272	1151					405	1735	20:45	95	455	85	291					180	746
09:00	106		231						337		21:00	94		74						168	
09:15	130		226						356		21:15	118		68						186	
09:30	128		211						339		21:30	110		42						152	
09:45	172	536	210	878					382	1414	21:45	96	418	56	240					152	658
10:00	164		132						296		22:00	133		41						174	
10:15	117		135						252		22:15	107		35						142	
10:30	134		125						259		22:30	99		23						122	
10:45	170	585	144	536					314	1121	22:45	94	433	29	128					123	561
11:00	168		120						288		23:00	66		22						88	
11:15	197		122						319		23:15	43		18						61	
11:30	224		117						341		23:30	48		19						67	
11:45	189	778	141	500					330	1278	23:45	45	202	15	74					60	276
TOTALS		3585		5694						9279	TOTALS		9898		5923						15821
SPLIT %		38.6%		61.4%						37.0%	SPLIT %		62.6%		37.4%						63.0%

DAILY TOTALS	NB	SB	EB	WB	Total
	13,483	11,617	0	0	25,100

AM Peak Hour	11:15	07:15			07:15	PM Peak Hour	17:00	15:00			16:45
AM Pk Volume	811	1413			2007	PM Pk Volume	1425	820			2165
Pk Hr Factor	0.905	0.913			0.898	Pk Hr Factor	0.877	0.907			0.938
7 - 9 Volume	1132	2510	0	0	3642	4 - 6 Volume	2754	1526	0	0	4280
7 - 9 Peak Hour	07:45	07:15			07:15	4 - 6 Peak Hour	17:00	16:15			16:45
7 - 9 Pk Volume	623	1413	0	0	2007	4 - 6 Pk Volume	1425	798	0	0	2165
Pk Hr Factor	0.906	0.913	0.000	0.000	0.898	Pk Hr Factor	0.877	0.945	0.000	0.000	0.938

Prepared by National Data & Surveying Services

VOLUME

State College Blvd Bet. Yorba Linda Blvd & Bastanchury Rd

Day: Wednesday
Date: 9/25/2019

City: Fullerton
Project #: CA19_1188_004

DAILY TOTALS	NB	SB	EB	WB	Total
	13,278	11,815	0	0	25,093

AM Period	NB		SB		EB		WB		TOTAL		PM Period	NB		SB		EB		WB		TOTAL	
00:00	54		17						71		12:00	183		139						322	
00:15	41		6						47		12:15	152		138						290	
00:30	32		5						37		12:30	176		163						339	
00:45	12	139	5	33					17	172	12:45	271	782	141	581					412	1363
01:00	9		5						14		13:00	242		117						359	
01:15	10		1						11		13:15	158		138						296	
01:30	8		3						11		13:30	188		106						294	
01:45	12	39	6	15					18	54	13:45	167	755	155	516					322	1271
02:00	8		2						10		14:00	184		153						337	
02:15	4		4						8		14:15	231		158						389	
02:30	3		1						4		14:30	277		148						425	
02:45	10	25	4	11					14	36	14:45	201	893	233	692					434	1585
03:00	5		5						10		15:00	272		233						505	
03:15	3		4						7		15:15	331		247						578	
03:30	10		6						16		15:30	251		186						437	
03:45	4	22	5	20					9	42	15:45	325	1179	226	892					551	2071
04:00	3		7						10		16:00	423		202						625	
04:15	9		9						18		16:15	307		198						505	
04:30	8		14						22		16:30	302		189						491	
04:45	11	31	18	48					29	79	16:45	340	1372	212	801					552	2173
05:00	15		24						39		17:00	342		208						550	
05:15	17		40						57		17:15	407		180						587	
05:30	20		42						62		17:30	359		181						540	
05:45	28	80	66	172					94	252	17:45	251	1359	213	782					464	2141
06:00	28		102						130		18:00	282		183						465	
06:15	44		178						222		18:15	227		206						433	
06:30	69		300						369		18:30	196		202						398	
06:45	155	296	357	937					512	1233	18:45	278	983	198	789					476	1772
07:00	134		249						383		19:00	290		185						475	
07:15	72		376						448		19:15	193		174						367	
07:30	134		434						568		19:30	121		101						222	
07:45	188	528	313	1372					501	1900	19:45	121	725	86	546					207	1271
08:00	121		259						380		20:00	111		86						197	
08:15	109		248						357		20:15	153		76						229	
08:30	114		235						349		20:30	160		69						229	
08:45	136	480	274	1016					410	1496	20:45	199	623	78	309					277	932
09:00	112		216						328		21:00	122		88						210	
09:15	106		195						301		21:15	107		77						184	
09:30	125		199						324		21:30	114		56						170	
09:45	176	519	177	787					353	1306	21:45	95	438	59	280					154	718
10:00	133		153						286		22:00	119		47						166	
10:15	138		143						281		22:15	120		45						165	
10:30	133		116						249		22:30	114		38						152	
10:45	153	557	119	531					272	1088	22:45	108	461	31	161					139	622
11:00	165		126						291		23:00	87		23						110	
11:15	185		92						277		23:15	77		21						98	
11:30	241		112						353		23:30	59		18						77	
11:45	159	750	110	440					269	1190	23:45	19	242	22	84					41	326
TOTALS		3466		5382						8848	TOTALS		9812		6433						16245
SPLIT %		39.2%		60.8%						35.3%	SPLIT %		60.4%		39.6%						64.7%

DAILY TOTALS	NB	SB	EB	WB	Total
	13,278	11,815	0	0	25,093

AM Peak Hour	11:15	06:45			06:45	PM Peak Hour	16:45	14:45			16:45
AM Pk Volume	768	1416			1911	PM Pk Volume	1448	899			2229
Pk Hr Factor	0.797	0.816			0.841	Pk Hr Factor	0.889	0.910			0.949
7 - 9 Volume	1008	2388	0	0	3396	4 - 6 Volume	2731	1583	0	0	4314
7 - 9 Peak Hour	07:30	07:15			07:00	4 - 6 Peak Hour	16:45	16:15			16:45
7 - 9 Pk Volume	552	1382	0	0	1900	4 - 6 Pk Volume	1448	807	0	0	2229
Pk Hr Factor	0.734	0.796	0.000	0.000	0.836	Pk Hr Factor	0.889	0.952	0.000	0.000	0.949

Prepared by National Data & Surveying Services

VOLUME

Nutwood Ave Bet. State College Blvd & SR-57

Day: Tuesday
Date: 9/24/2019

City: Fullerton
Project #: CA19_1188_005

DAILY TOTALS	NB	SB	EB	WB	Total
	0	0	9,250	11,930	21,180

AM Period	NB	SB	EB		WB		TOTAL		PM Period	NB	SB	EB		WB		TOTAL	
00:00			19		24		43		12:00			128		174		302	
00:15			18		15		33		12:15			134		203		337	
00:30			17		14		31		12:30			139		203		342	
00:45			9	63	14	67	23	130	12:45			193	594	237	817	430	1411
01:00			7		9		16		13:00			187		175		362	
01:15			9		8		17		13:15			135		127		262	
01:30			3		5		8		13:30			114		141		255	
01:45			3	22	4	26	7	48	13:45			145	581	180	623	325	1204
02:00			6		5		11		14:00			161		185		346	
02:15			1		2		3		14:15			203		227		430	
02:30			5		3		8		14:30			158		194		352	
02:45			7	19	10	20	17	39	14:45			114	636	194	800	308	1436
03:00			4		3		7		15:00			156		187		343	
03:15			3		8		11		15:15			175		212		387	
03:30			2		6		8		15:30			138		261		399	
03:45			6	15	10	27	16	42	15:45			199	668	230	890	429	1558
04:00			4		6		10		16:00			187		210		397	
04:15			5		9		14		16:15			161		139		300	
04:30			5		12		17		16:30			147		143		290	
04:45			12	26	20	47	32	73	16:45			138	633	161	653	299	1286
05:00			11		20		31		17:00			177		220		397	
05:15			11		23		34		17:15			176		225		401	
05:30			20		30		50		17:30			188		205		393	
05:45			19	61	45	118	64	179	17:45			143	684	190	840	333	1524
06:00			20		46		66		18:00			159		182		341	
06:15			56		92		148		18:15			155		181		336	
06:30			85		141		226		18:30			168		210		378	
06:45			132	293	202	481	334	774	18:45			172	654	244	817	416	1471
07:00			111		159		270		19:00			100		179		279	
07:15			123		200		323		19:15			138		119		257	
07:30			115		264		379		19:30			126		105		231	
07:45			119	468	336	959	455	1427	19:45			129	493	104	507	233	1000
08:00			128		312		440		20:00			110		94		204	
08:15			125		251		376		20:15			137		101		238	
08:30			97		229		326		20:30			115		96		211	
08:45			89	439	174	966	263	1405	20:45			126	488	79	370	205	858
09:00			118		155		273		21:00			106		85		191	
09:15			115		173		288		21:15			120		99		219	
09:30			117		224		341		21:30			118		90		208	
09:45			148	498	222	774	370	1272	21:45			147	491	115	389	262	880
10:00			115		151		266		22:00			102		79		181	
10:15			98		146		244		22:15			80		51		131	
10:30			97		145		242		22:30			71		37		108	
10:45			111	421	177	619	288	1040	22:45			51	304	50	217	101	521
11:00			135		213		348		23:00			65		33		98	
11:15			153		236		389		23:15			31		35		66	
11:30			146		155		301		23:30			29		29		58	
11:45			109	543	175	779	284	1322	23:45			31	156	27	124	58	280
TOTALS				2868		4883		7751	TOTALS				6382		7047		13429
SPLIT %				37.0%		63.0%		36.6%	SPLIT %				47.5%		52.5%		63.4%

DAILY TOTALS	NB	SB	EB	WB	Total
	0	0	9,250	11,930	21,180

AM Peak Hour			10:45	07:30	07:30	PM Peak Hour			15:15	15:15	15:15
AM Pk Volume			545	1163	1650	PM Pk Volume			699	913	1612
Pk Hr Factor			0.891	0.865	0.907	Pk Hr Factor			0.878	0.875	0.939
7 - 9 Volume	0	0	907	1925	2832	4 - 6 Volume	0	0	1317	1493	2810
7 - 9 Peak Hour			07:30	07:30	07:30	4 - 6 Peak Hour			17:00	17:00	17:00
7 - 9 Pk Volume	0	0	487	1163	1650	4 - 6 Pk Volume	0	0	684	840	1524
Pk Hr Factor	0.000	0.000	0.951	0.865	0.907	Pk Hr Factor	0.000	0.000	0.910	0.933	0.950

Prepared by National Data & Surveying Services

VOLUME

Nutwood Ave Bet. State College Blvd & SR-57

Day: Wednesday
Date: 9/25/2019

City: Fullerton
Project #: CA19_1188_005

DAILY TOTALS	NB	SB	EB	WB	Total
	0	0	9,761	12,650	22,411

AM Period	NB	SB	EB		WB		TOTAL		PM Period	NB	SB	EB		WB		TOTAL	
00:00			36		18		54		12:00			163		187		350	
00:15			44		25		69		12:15			139		203		342	
00:30			18		16		34		12:30			167		230		397	
00:45			11	109	11	70	22	179	12:45			175	644	232	852	407	1496
01:00			10		19		29		13:00			175		177		352	
01:15			12		6		18		13:15			130		126		256	
01:30			9		8		17		13:30			133		158		291	
01:45			6	37	5	38	11	75	13:45			118	556	200	661	318	1217
02:00			7		6		13		14:00			175		224		399	
02:15			7		7		14		14:15			202		227		429	
02:30			2		6		8		14:30			188		171		359	
02:45			7	23	10	29	17	52	14:45			147	712	171	793	318	1505
03:00			5		3		8		15:00			165		163		328	
03:15			5		5		10		15:15			179		204		383	
03:30			2		9		11		15:30			181		230		411	
03:45			3	15	6	23	9	38	15:45			199	724	243	840	442	1564
04:00			4		3		7		16:00			202		176		378	
04:15			3		10		13		16:15			157		155		312	
04:30			7		26		33		16:30			143		145		288	
04:45			11	25	27	66	38	91	16:45			152	654	182	658	334	1312
05:00			9		22		31		17:00			182		226		408	
05:15			15		38		53		17:15			199		236		435	
05:30			16		34		50		17:30			181		192		373	
05:45			12	52	38	132	50	184	17:45			149	711	174	828	323	1539
06:00			37		66		103		18:00			175		191		366	
06:15			47		92		139		18:15			195		189		384	
06:30			79		143		222		18:30			179		220		399	
06:45			99	262	222	523	321	785	18:45			187	736	266	866	453	1602
07:00			123		200		323		19:00			132		186		318	
07:15			132		251		383		19:15			136		140		276	
07:30			113		350		463		19:30			146		99		245	
07:45			108	476	349	1150	457	1626	19:45			112	526	121	546	233	1072
08:00			125		292		417		20:00			135		100		235	
08:15			110		269		379		20:15			150		109		259	
08:30			84		220		304		20:30			140		105		245	
08:45			110	429	215	996	325	1425	20:45			110	535	86	400	196	935
09:00			111		202		313		21:00			128		88		216	
09:15			89		186		275		21:15			138		120		258	
09:30			128		239		367		21:30			158		131		289	
09:45			141	469	235	862	376	1331	21:45			180	604	130	469	310	1073
10:00			126		168		294		22:00			126		92		218	
10:15			88		137		225		22:15			81		84		165	
10:30			108		171		279		22:30			66		61		127	
10:45			111	433	190	666	301	1099	22:45			49	322	44	281	93	603
11:00			125		191		316		23:00			40		53		93	
11:15			153		211		364		23:15			44		33		77	
11:30			151		167		318		23:30			33		31		64	
11:45			126	555	189	758	315	1313	23:45			35	152	26	143	61	295
TOTALS				2885		5313		8198	TOTALS				6876		7337		14213
SPLIT %				35.2%		64.8%		36.6%	SPLIT %				48.4%		51.6%		63.4%

DAILY TOTALS	NB	SB	EB	WB	Total
	0	0	9,761	12,650	22,411

AM Peak Hour			11:45	07:30	07:15	PM Peak Hour			15:15	18:00	15:15
AM Pk Volume			595	1260	1720	PM Pk Volume			761	866	1614
Pk Hr Factor			0.891	0.900	0.929	Pk Hr Factor			0.942	0.814	0.913
7 - 9 Volume	0	0	905	2146	3051	4 - 6 Volume	0	0	1365	1486	2851
7 - 9 Peak Hour			07:15	07:30	07:15	4 - 6 Peak Hour			16:45	16:45	16:45
7 - 9 Pk Volume	0	0	478	1260	1720	4 - 6 Pk Volume	0	0	714	836	1550
Pk Hr Factor	0.000	0.000	0.905	0.900	0.929	Pk Hr Factor	0.000	0.000	0.897	0.886	0.891

Prepared by National Data & Surveying Services

VOLUME

Nutwood Ave/Primrose Ave Bet. SR-57 & Bradford Ave

Day: Tuesday
Date: 9/24/2019

City: Placentia
Project #: CA19_1188_006

DAILY TOTALS	NB	SB	EB	WB	Total
	0	0	711	747	1,458

AM Period	NB	SB	EB		WB		TOTAL		PM Period	NB	SB	EB		WB		TOTAL	
00:00			3		2		5		12:00			10		7		17	
00:15			1		2		3		12:15			14		5		19	
00:30			1		0		1		12:30			17		9		26	
00:45			0	5	0	4	0	9	12:45			17	58	12	33	29	91
01:00			0		1		1		13:00			12		13		25	
01:15			0		0		0		13:15			8		6		14	
01:30			2		2		4		13:30			12		5		17	
01:45			1	3	0	3	1	6	13:45			7	39	9	33	16	72
02:00			0		0		0		14:00			9		6		15	
02:15			0		0		0		14:15			18		12		30	
02:30			0		1		1		14:30			13		13		26	
02:45			0		0	1	0	1	14:45			14	54	19	50	33	104
03:00			0		0		0		15:00			13		11		24	
03:15			2		3		5		15:15			14		14		28	
03:30			2		0		2		15:30			10		13		23	
03:45			0	4	1	4	1	8	15:45			9	46	15	53	24	99
04:00			0		0		0		16:00			13		10		23	
04:15			0		0		0		16:15			7		15		22	
04:30			0		3		3		16:30			11		9		20	
04:45			2	2	2	5	4	7	16:45			16	47	16	50	32	97
05:00			0		6		6		17:00			13		16		29	
05:15			1		2		3		17:15			19		15		34	
05:30			1		3		4		17:30			19		9		28	
05:45			1	3	2	13	3	16	17:45			16	67	12	52	28	119
06:00			1		7		8		18:00			13		11		24	
06:15			2		7		9		18:15			13		5		18	
06:30			2		19		21		18:30			17		9		26	
06:45			3	8	18	51	21	59	18:45			8	51	12	37	20	88
07:00			6		13		19		19:00			10		14		24	
07:15			13		14		27		19:15			8		10		18	
07:30			41		35		76		19:30			12		9		21	
07:45			23	83	32	94	55	177	19:45			6	36	9	42	15	78
08:00			10		12		22		20:00			5		10		15	
08:15			6		12		18		20:15			10		7		17	
08:30			4		12		16		20:30			5		10		15	
08:45			5	25	5	41	10	66	20:45			5	25	4	31	9	56
09:00			8		11		19		21:00			6		9		15	
09:15			11		9		20		21:15			12		5		17	
09:30			5		8		13		21:30			7		3		10	
09:45			15	39	8	36	23	75	21:45			7	32	9	26	16	58
10:00			3		3		6		22:00			3		5		8	
10:15			5		13		18		22:15			5		2		7	
10:30			4		4		8		22:30			3		7		10	
10:45			11	23	4	24	15	47	22:45			3	14	3	17	6	31
11:00			11		9		20		23:00			2		7		9	
11:15			10		12		22		23:15			3		1		4	
11:30			9		8		17		23:30			1		3		4	
11:45			9	39	6	35	15	74	23:45			2	8	1	12	3	20
TOTALS				234		311		545	TOTALS				477		436		913
SPLIT %				42.9%		57.1%		37.4%	SPLIT %				52.2%		47.8%		62.6%

DAILY TOTALS	NB	SB	EB	WB	Total
	0	0	711	747	1,458

AM Peak Hour			07:15	07:00	07:15	PM Peak Hour			16:45	14:30	16:45
AM Pk Volume			87	94	180	PM Pk Volume			67	57	123
Pk Hr Factor			0.530	0.671	0.592	Pk Hr Factor			0.882	0.750	0.904
7 - 9 Volume	0	0	108	135	243	4 - 6 Volume	0	0	114	102	216
7 - 9 Peak Hour			07:15	07:00	07:15	4 - 6 Peak Hour			16:45	16:15	16:45
7 - 9 Pk Volume	0	0	87	94	180	4 - 6 Pk Volume	0	0	67	56	123
Pk Hr Factor	0.000	0.000	0.530	0.671	0.592	Pk Hr Factor	0.000	0.000	0.882	0.875	0.904

Prepared by National Data & Surveying Services

VOLUME

Nutwood Ave/Primrose Ave Bet. SR-57 & Bradford Ave

Day: Wednesday
Date: 9/25/2019

City: Placentia
Project #: CA19_1188_006

DAILY TOTALS	NB	SB	EB	WB	Total
	0	0	776	753	1,529

AM Period	NB	SB	EB		WB		TOTAL		PM Period	NB	SB	EB		WB		TOTAL	
00:00			4		1		5		12:00			15		10		25	
00:15			4		2		6		12:15			12		12		24	
00:30			1		0		1		12:30			8		12		20	
00:45			2	11	2	5	4	16	12:45			6	41	9	43	15	84
01:00			1		1		2		13:00			11		12		23	
01:15			0		1		1		13:15			20		12		32	
01:30			1		2		3		13:30			7		7		14	
01:45			3	5	1	5	4	10	13:45			13	51	7	38	20	89
02:00			2		1		3		14:00			13		9		22	
02:15			3		0		3		14:15			11		9		20	
02:30			2		3		5		14:30			10		9		19	
02:45			1	8	0	4	1	12	14:45			15	49	17	44	32	93
03:00			0		2		2		15:00			13		10		23	
03:15			1		1		2		15:15			15		9		24	
03:30			0		1		1		15:30			11		14		25	
03:45			0	1	1	5	1	6	15:45			8	47	12	45	20	92
04:00			1		1		2		16:00			10		17		27	
04:15			0		1		1		16:15			12		8		20	
04:30			0		1		1		16:30			15		10		25	
04:45			0	1	1	4	1	5	16:45			12	49	13	48	25	97
05:00			1		1		2		17:00			15		14		29	
05:15			0		2		2		17:15			29		8		37	
05:30			2		5		7		17:30			10		15		25	
05:45			1	4	4	12	5	16	17:45			18	72	10	47	28	119
06:00			1		6		7		18:00			14		9		23	
06:15			1		8		9		18:15			17		13		30	
06:30			3		15		18		18:30			15		15		30	
06:45			5	10	13	42	18	52	18:45			8	54	11	48	19	102
07:00			6		13		19		19:00			16		9		25	
07:15			15		14		29		19:15			20		9		29	
07:30			41		31		72		19:30			7		8		15	
07:45			38	100	32	90	70	190	19:45			8	51	11	37	19	88
08:00			10		14		24		20:00			8		5		13	
08:15			9		15		24		20:15			9		9		18	
08:30			4		9		13		20:30			13		15		28	
08:45			4	27	9	47	13	74	20:45			7	37	9	38	16	75
09:00			6		5		11		21:00			8		9		17	
09:15			7		9		16		21:15			8		10		18	
09:30			8		10		18		21:30			9		7		16	
09:45			7	28	15	39	22	67	21:45			10	35	6	32	16	67
10:00			9		7		16		22:00			7		7		14	
10:15			5		12		17		22:15			7		7		14	
10:30			4		8		12		22:30			4		1		5	
10:45			6	24	2	29	8	53	22:45			4	22	2	17	6	39
11:00			5		5		10		23:00			3		1		4	
11:15			8		11		19		23:15			3		2		5	
11:30			9		9		18		23:30			3		1		4	
11:45			11	33	4	29	15	62	23:45			7	16	1	5	8	21
TOTALS				252		311		563	TOTALS				524		442		966
SPLIT %				44.8%		55.2%		36.8%	SPLIT %				54.2%		45.8%		63.2%

DAILY TOTALS	NB	SB	EB	WB	Total
	0	0	776	753	1,529

AM Peak Hour			07:15	07:30	07:15	PM Peak Hour			17:00	15:15	17:00
AM Pk Volume			104	92	195	PM Pk Volume			72	52	119
Pk Hr Factor			0.634	0.719	0.677	Pk Hr Factor			0.621	0.765	0.804
7 - 9 Volume	0	0	127	137	264	4 - 6 Volume	0	0	121	95	216
7 - 9 Peak Hour			07:15	07:30	07:15	4 - 6 Peak Hour			17:00	16:45	17:00
7 - 9 Pk Volume	0	0	104	92	195	4 - 6 Pk Volume	0	0	72	50	119
Pk Hr Factor	0.000	0.000	0.634	0.719	0.677	Pk Hr Factor	0.000	0.000	0.621	0.833	0.804

Prepared by National Data & Surveying Services

VOLUME

Yorba Linda Blvd Bet. State College Blvd & Placentia Ave

Day: Tuesday
Date: 10/8/2019

City: Fullerton
Project #: CA19_1188_007

DAILY TOTALS	NB	SB	EB	WB	Total
	0	0	20,005	18,168	38,173

AM Period	NB	SB	EB		WB		TOTAL		PM Period	NB	SB	EB		WB		TOTAL	
00:00			45		30		75		12:00			264		208		472	
00:15			29		20		49		12:15			231		236		467	
00:30			32		14		46		12:30			283		259		542	
00:45			28	134	11	75	39	209	12:45			362	1140	232	935	594	2075
01:00			15		24		39		13:00			399		228		627	
01:15			7		19		26		13:15			285		231		516	
01:30			8		21		29		13:30			273		255		528	
01:45			22	52	13	77	35	129	13:45			247	1204	256	970	503	2174
02:00			8		10		18		14:00			306		233		539	
02:15			9		11		20		14:15			415		243		658	
02:30			16		17		33		14:30			480		275		755	
02:45			8	41	11	49	19	90	14:45			315	1516	286	1037	601	2553
03:00			7		6		13		15:00			331		279		610	
03:15			15		3		18		15:15			351		279		630	
03:30			15		10		25		15:30			361		284		645	
03:45			13	50	12	31	25	81	15:45			436	1479	281	1123	717	2602
04:00			14		12		26		16:00			497		269		766	
04:15			27		12		39		16:15			370		283		653	
04:30			42		16		58		16:30			339		313		652	
04:45			41	124	32	72	73	196	16:45			302	1508	311	1176	613	2684
05:00			58		39		97		17:00			410		332		742	
05:15			75		62		137		17:15			395		327		722	
05:30			107		64		171		17:30			409		342		751	
05:45			107	347	77	242	184	589	17:45			291	1505	360	1361	651	2866
06:00			200		77		277		18:00			291		321		612	
06:15			187		109		296		18:15			332		311		643	
06:30			249		156		405		18:30			299		337		636	
06:45			304	940	227	569	531	1509	18:45			388	1310	309	1278	697	2588
07:00			305		220		525		19:00			440		297		737	
07:15			272		299		571		19:15			276		286		562	
07:30			290		422		712		19:30			221		203		424	
07:45			288	1155	445	1386	733	2541	19:45			197	1134	198	984	395	2118
08:00			302		389		691		20:00			190		174		364	
08:15			281		316		597		20:15			240		180		420	
08:30			281		317		598		20:30			219		185		404	
08:45			231	1095	316	1338	547	2433	20:45			194	843	178	717	372	1560
09:00			252		287		539		21:00			218		256		474	
09:15			248		312		560		21:15			197		253		450	
09:30			221		336		557		21:30			188		231		419	
09:45			248	969	299	1234	547	2203	21:45			214	817	237	977	451	1794
10:00			234		188		422		22:00			158		197		355	
10:15			228		209		437		22:15			105		95		200	
10:30			237		232		469		22:30			100		74		174	
10:45			189	888	267	896	456	1784	22:45			85	448	61	427	146	875
11:00			242		239		481		23:00			78		74		152	
11:15			260		268		528		23:15			76		69		145	
11:30			313		220		533		23:30			40		43		83	
11:45			247	1062	264	991	511	2053	23:45			50	244	37	223	87	467
TOTALS				6857		6960		13817	TOTALS				13148		11208		24356
SPLIT %				49.6%		50.4%		36.2%	SPLIT %				54.0%		46.0%		63.8%

DAILY TOTALS	NB	SB	EB	WB	Total
	0	0	20,005	18,168	38,173

AM Peak Hour			06:45	07:30	07:30	PM Peak Hour			15:30	17:00	17:00
AM Pk Volume			1171	1572	2733	PM Pk Volume			1664	1361	2866
Pk Hr Factor			0.960	0.883	0.932	Pk Hr Factor			0.837	0.945	0.954
7 - 9 Volume	0	0	2250	2724	4974	4 - 6 Volume	0	0	3013	2537	5550
7 - 9 Peak Hour			07:30	07:30	07:30	4 - 6 Peak Hour			16:45	17:00	17:00
7 - 9 Pk Volume	0	0	1161	1572	2733	4 - 6 Pk Volume	0	0	1516	1361	2866
Pk Hr Factor	0.000	0.000	0.961	0.883	0.932	Pk Hr Factor	0.000	0.000	0.924	0.945	0.954

Prepared by National Data & Surveying Services

VOLUME

Yorba Linda Blvd Bet. State College Blvd & Placentia Ave

Day: Wednesday
Date: 10/9/2019

City: Fullerton
Project #: CA19_1188_007

DAILY TOTALS	NB	SB	EB	WB	Total
	0	0	20,346	18,676	39,022

AM Period	NB	SB	EB		WB		TOTAL		PM Period	NB	SB	EB		WB		TOTAL	
00:00			50		39		89		12:00			313		272		585	
00:15			35		35		70		12:15			258		272		530	
00:30			40		34		74		12:30			270		294		564	
00:45			22	147	29	137	51	284	12:45			363	1204	257	1095	620	2299
01:00			22		28		50		13:00			404		262		666	
01:15			15		25		40		13:15			281		236		517	
01:30			15		17		32		13:30			256		227		483	
01:45			23	75	19	89	42	164	13:45			288	1229	297	1022	585	2251
02:00			9		19		28		14:00			268		264		532	
02:15			12		11		23		14:15			381		274		655	
02:30			11		6		17		14:30			381		284		665	
02:45			11	43	16	52	27	95	14:45			305	1335	272	1094	577	2429
03:00			6		12		18		15:00			332		289		621	
03:15			11		5		16		15:15			333		290		623	
03:30			9		9		18		15:30			348		316		664	
03:45			9	35	18	44	27	79	15:45			421	1434	288	1183	709	2617
04:00			25		9		34		16:00			489		275		764	
04:15			21		12		33		16:15			377		292		669	
04:30			43		12		55		16:30			377		327		704	
04:45			42	131	28	61	70	192	16:45			321	1564	299	1193	620	2757
05:00			46		40		86		17:00			380		347		727	
05:15			66		44		110		17:15			403		373		776	
05:30			126		71		197		17:30			394		362		756	
05:45			142	380	62	217	204	597	17:45			323	1500	359	1441	682	2941
06:00			156		97		253		18:00			355		338		693	
06:15			212		111		323		18:15			334		304		638	
06:30			227		166		393		18:30			331		315		646	
06:45			285	880	210	584	495	1464	18:45			399	1419	321	1278	720	2697
07:00			294		210		504		19:00			417		259		676	
07:15			259		311		570		19:15			300		223		523	
07:30			282		380		662		19:30			228		194		422	
07:45			308	1143	435	1336	743	2479	19:45			168	1113	180	856	348	1969
08:00			322		373		695		20:00			201		159		360	
08:15			236		336		572		20:15			246		164		410	
08:30			285		325		610		20:30			199		159		358	
08:45			225	1068	289	1323	514	2391	20:45			187	833	239	721	426	1554
09:00			234		264		498		21:00			241		268		509	
09:15			223		317		540		21:15			202		255		457	
09:30			249		291		540		21:30			200		264		464	
09:45			270	976	273	1145	543	2121	21:45			202	845	288	1075	490	1920
10:00			318		201		519		22:00			145		202		347	
10:15			348		225		573		22:15			100		119		219	
10:30			271		226		497		22:30			88		106		194	
10:45			225	1162	261	913	486	2075	22:45			101	434	100	527	201	961
11:00			276		227		503		23:00			79		107		186	
11:15			275		238		513		23:15			78		89		167	
11:30			307		251		558		23:30			63		56		119	
11:45			247	1105	262	978	509	2083	23:45			71	291	60	312	131	603
TOTALS				7145		6879		14024	TOTALS				13201		11797		24998
SPLIT %				50.9%		49.1%		35.9%	SPLIT %				52.8%		47.2%		64.1%

DAILY TOTALS	NB	SB	EB	WB	Total
	0	0	20,346	18,676	39,022

AM Peak Hour			09:45	07:30	07:30	PM Peak Hour			15:45	17:00	17:00
AM Pk Volume			1207	1524	2672	PM Pk Volume			1664	1441	2941
Pk Hr Factor			0.867	0.876	0.899	Pk Hr Factor			0.851	0.966	0.947
7 - 9 Volume	0	0	2211	2659	4870	4 - 6 Volume	0	0	3064	2634	5698
7 - 9 Peak Hour			07:15	07:30	07:30	4 - 6 Peak Hour			16:00	17:00	17:00
7 - 9 Pk Volume	0	0	1171	1524	2672	4 - 6 Pk Volume	0	0	1564	1441	2941
Pk Hr Factor	0.000	0.000	0.909	0.876	0.899	Pk Hr Factor	0.000	0.000	0.800	0.966	0.947

Prepared by National Data & Surveying Services

VOLUME

E Chapman Ave Bet. State College Blvd & SR-57

Day: Tuesday
Date: 9/24/2019

City: Fullerton
Project #: CA19_1188_008

DAILY TOTALS	NB	SB	EB	WB	Total
	0	0	17,560	16,825	34,385

AM Period	NB	SB	EB		WB		TOTAL		PM Period	NB	SB	EB		WB		TOTAL	
00:00			30		44		74		12:00			293		259		552	
00:15			24		45		69		12:15			302		269		571	
00:30			23		28		51		12:30			262		274		536	
00:45			22	99	18	135	40	234	12:45			279	1136	309	1111	588	2247
01:00			13		18		31		13:00			246		291		537	
01:15			13		13		26		13:15			273		281		554	
01:30			10		11		21		13:30			241		257		498	
01:45			12	48	12	54	24	102	13:45			230	990	278	1107	508	2097
02:00			9		16		25		14:00			272		276		548	
02:15			12		9		21		14:15			265		288		553	
02:30			14		3		17		14:30			272		267		539	
02:45			11	46	4	32	15	78	14:45			317	1126	259	1090	576	2216
03:00			7		9		16		15:00			310		306		616	
03:15			15		13		28		15:15			269		322		591	
03:30			8		17		25		15:30			283		282		565	
03:45			7	37	17	56	24	93	15:45			309	1171	239	1149	548	2320
04:00			13		12		25		16:00			309		311		620	
04:15			18		29		47		16:15			325		286		611	
04:30			20		37		57		16:30			317		276		593	
04:45			29	80	31	109	60	189	16:45			313	1264	266	1139	579	2403
05:00			24		41		65		17:00			342		282		624	
05:15			35		56		91		17:15			338		281		619	
05:30			60		87		147		17:30			327		289		616	
05:45			76	195	88	272	164	467	17:45			320	1327	266	1118	586	2445
06:00			77		124		201		18:00			284		273		557	
06:15			104		123		227		18:15			285		274		559	
06:30			181		186		367		18:30			313		266		579	
06:45			259	621	256	689	515	1310	18:45			330	1212	308	1121	638	2333
07:00			207		263		470		19:00			266		281		547	
07:15			259		221		480		19:15			226		233		459	
07:30			292		228		520		19:30			243		242		485	
07:45			287	1045	216	928	503	1973	19:45			203	938	205	961	408	1899
08:00			307		238		545		20:00			197		189		386	
08:15			343		272		615		20:15			170		186		356	
08:30			240		236		476		20:30			172		152		324	
08:45			245	1135	205	951	450	2086	20:45			142	681	180	707	322	1388
09:00			223		174		397		21:00			154		199		353	
09:15			268		224		492		21:15			146		199		345	
09:30			238		196		434		21:30			142		185		327	
09:45			270	999	223	817	493	1816	21:45			110	552	204	787	314	1339
10:00			254		214		468		22:00			144		188		332	
10:15			210		229		439		22:15			125		132		257	
10:30			227		185		412		22:30			125		92		217	
10:45			212	903	187	815	399	1718	22:45			138	532	75	487	213	1019
11:00			263		205		468		23:00			105		68		173	
11:15			298		215		513		23:15			59		62		121	
11:30			299		285		584		23:30			77		53		130	
11:45			231	1091	261	966	492	2057	23:45			91	332	41	224	132	556
TOTALS				6299		5824		12123	TOTALS				11261		11001		22262
SPLIT %				52.0%		48.0%		35.3%	SPLIT %				50.6%		49.4%		64.7%

DAILY TOTALS	NB	SB	EB	WB	Total
	0	0	17,560	16,825	34,385

AM Peak Hour			07:30	11:30	11:30	PM Peak Hour			17:00	14:45	17:00
AM Pk Volume			1229	1074	2199	PM Pk Volume			1327	1169	2445
Pk Hr Factor			0.896	0.942	0.941	Pk Hr Factor			0.970	0.908	0.980
7 - 9 Volume	0	0	2180	1879	4059	4 - 6 Volume	0	0	2591	2257	4848
7 - 9 Peak Hour			07:30	07:45	07:30	4 - 6 Peak Hour			17:00	16:00	17:00
7 - 9 Pk Volume	0	0	1229	962	2183	4 - 6 Pk Volume	0	0	1327	1139	2445
Pk Hr Factor	0.000	0.000	0.896	0.884	0.887	Pk Hr Factor	0.000	0.000	0.970	0.916	0.980

Prepared by National Data & Surveying Services

VOLUME

E Chapman Ave Bet. State College Blvd & SR-57

Day: Wednesday
Date: 9/25/2019

City: Fullerton
Project #: CA19_1188_008

DAILY TOTALS	NB	SB	EB	WB	Total
	0	0	18,380	16,836	35,216

AM Period	NB	SB	EB		WB		TOTAL		PM Period	NB	SB	EB		WB		TOTAL	
00:00			87		52		139		12:00			253		260		513	
00:15			70		43		113		12:15			274		238		512	
00:30			45		29		74		12:30			263		286		549	
00:45			28	230	29	153	57	383	12:45			279	1069	280	1064	559	2133
01:00			23		22		45		13:00			300		291		591	
01:15			17		21		38		13:15			268		307		575	
01:30			17		26		43		13:30			258		236		494	
01:45			13	70	13	82	26	152	13:45			279	1105	235	1069	514	2174
02:00			11		12		23		14:00			264		292		556	
02:15			10		13		23		14:15			242		272		514	
02:30			10		10		20		14:30			279		295		574	
02:45			8	39	8	43	16	82	14:45			311	1096	256	1115	567	2211
03:00			4		6		10		15:00			280		312		592	
03:15			15		14		29		15:15			290		313		603	
03:30			11		19		30		15:30			271		288		559	
03:45			16	46	20	59	36	105	15:45			339	1180	278	1191	617	2371
04:00			10		11		21		16:00			316		282		598	
04:15			13		16		29		16:15			343		304		647	
04:30			18		36		54		16:30			319		288		607	
04:45			33	74	41	104	74	178	16:45			324	1302	281	1155	605	2457
05:00			25		33		58		17:00			374		276		650	
05:15			41		58		99		17:15			375		287		662	
05:30			57		78		135		17:30			377		274		651	
05:45			70	193	93	262	163	455	17:45			332	1458	263	1100	595	2558
06:00			81		133		214		18:00			346		276		622	
06:15			120		123		243		18:15			354		270		624	
06:30			195		184		379		18:30			309		280		589	
06:45			237	633	259	699	496	1332	18:45			303	1312	297	1123	600	2435
07:00			218		260		478		19:00			285		253		538	
07:15			262		250		512		19:15			235		200		435	
07:30			289		239		528		19:30			208		178		386	
07:45			276	1045	231	980	507	2025	19:45			241	969	176	807	417	1776
08:00			300		195		495		20:00			194		200		394	
08:15			276		211		487		20:15			178		235		413	
08:30			251		244		495		20:30			180		157		337	
08:45			298	1125	194	844	492	1969	20:45			156	708	193	785	349	1493
09:00			277		161		438		21:00			150		232		382	
09:15			247		218		465		21:15			141		206		347	
09:30			306		232		538		21:30			150		206		356	
09:45			252	1082	217	828	469	1910	21:45			144	585	193	837	337	1422
10:00			225		220		445		22:00			148		162		310	
10:15			220		215		435		22:15			168		104		272	
10:30			223		187		410		22:30			149		93		242	
10:45			260	928	190	812	450	1740	22:45			172	637	101	460	273	1097
11:00			274		215		489		23:00			133		85		218	
11:15			264		232		496		23:15			115		72		187	
11:30			327		256		583		23:30			64		59		123	
11:45			256	1121	276	979	532	2100	23:45			61	373	69	285	130	658
TOTALS				6586		5845		**12431**	**TOTALS**				11794		10991		**22785**
SPLIT %				53.0%		47.0%		**35.3%**	**SPLIT %**				51.8%		48.2%		**64.7%**

DAILY TOTALS	NB	SB	EB	WB	Total
	0	0	18,380	16,836	35,216

AM Peak Hour			07:30	11:45	**11:30**	**PM Peak Hour**			17:00	15:00	**16:45**
AM Pk Volume			1141	1060	**2140**	**PM Pk Volume**			1458	1191	**2568**
Pk Hr Factor			0.951	0.927	**0.918**	**Pk Hr Factor**			0.967	0.951	**0.970**
7 - 9 Volume	0	0	2170	1824	**3994**	**4 - 6 Volume**	0	0	2760	2255	**5015**
7 - 9 Peak Hour			07:30	07:00	**07:15**	**4 - 6 Peak Hour**			17:00	16:00	**16:45**
7 - 9 Pk Volume	0	0	1141	980	**2042**	**4 - 6 Pk Volume**	0	0	1458	1155	**2568**
Pk Hr Factor	0.000	0.000	0.951	0.942	**0.967**	**Pk Hr Factor**	0.000	0.000	0.967	0.950	**0.970**

Prepared by National Data & Surveying Services

VOLUME

E Chapman Ave Bet. SR-57 & Bradford Ave

Day: Tuesday
Date: 9/24/2019

City: Placentia
Project #: CA19_1188_009

DAILY TOTALS	NB	SB	EB	WB	Total
	0	0	12,760	11,174	23,934

AM Period	NB	SB	EB		WB		TOTAL		PM Period	NB	SB	EB		WB		TOTAL	
00:00			24		10		34		12:00			192		169		361	
00:15			27		9		36		12:15			166		171		337	
00:30			27		5		32		12:30			192		171		363	
00:45			17	95	15	39	32	134	12:45			199	749	157	668	356	1417
01:00			10		2		12		13:00			201		142		343	
01:15			12		2		14		13:15			177		155		332	
01:30			7		10		17		13:30			189		138		327	
01:45			8	37	6	20	14	57	13:45			217	784	167	602	384	1386
02:00			10		7		17		14:00			195		183		378	
02:15			5		6		11		14:15			211		162		373	
02:30			3		3		6		14:30			235		185		420	
02:45			4	22	5	21	9	43	14:45			276	917	200	730	476	1647
03:00			5		5		10		15:00			267		254		521	
03:15			4		9		13		15:15			236		163		399	
03:30			9		12		21		15:30			201		229		430	
03:45			10	28	14	40	24	68	15:45			236	940	220	866	456	1806
04:00			8		13		21		16:00			256		221		477	
04:15			11		19		30		16:15			255		159		414	
04:30			16		31		47		16:30			252		215		467	
04:45			21	56	39	102	60	158	16:45			244	1007	212	807	456	1814
05:00			22		39		61		17:00			248		234		482	
05:15			39		54		93		17:15			311		199		510	
05:30			49		72		121		17:30			251		216		467	
05:45			53	163	79	244	132	407	17:45			276	1086	185	834	461	1920
06:00			52		98		150		18:00			259		175		434	
06:15			62		97		159		18:15			263		203		466	
06:30			113		179		292		18:30			276		169		445	
06:45			109	336	186	560	295	896	18:45			251	1049	171	718	422	1767
07:00			134		192		326		19:00			226		127		353	
07:15			181		212		393		19:15			232		162		394	
07:30			204		216		420		19:30			177		147		324	
07:45			174	693	270	890	444	1583	19:45			194	829	133	569	327	1398
08:00			155		155		310		20:00			144		130		274	
08:15			141		201		342		20:15			154		85		239	
08:30			146		171		317		20:30			135		95		230	
08:45			135	577	152	679	287	1256	20:45			137	570	85	395	222	965
09:00			138		144		282		21:00			137		63		200	
09:15			147		154		301		21:15			127		70		197	
09:30			122		159		281		21:30			108		80		188	
09:45			155	562	162	619	317	1181	21:45			127	499	52	265	179	764
10:00			148		153		301		22:00			113		69		182	
10:15			140		159		299		22:15			81		67		148	
10:30			136		139		275		22:30			79		47		126	
10:45			160	584	146	597	306	1181	22:45			55	328	40	223	95	551
11:00			154		134		288		23:00			61		29		90	
11:15			149		137		286		23:15			41		25		66	
11:30			187		177		364		23:30			44		26		70	
11:45			168	658	146	594	314	1252	23:45			45	191	12	92	57	283
TOTALS				3811		4405		**8216**	**TOTALS**				8949		6769		**15718**
SPLIT %				46.4%		53.6%		**34.3%**	**SPLIT %**				56.9%		43.1%		**65.7%**

DAILY TOTALS	NB	SB	EB	WB	Total
	0	0	12,760	11,174	23,934

AM Peak Hour			11:45	07:00	**07:00**	**PM Peak Hour**			17:15	15:00	**17:00**
AM Pk Volume			718	890	**1583**	**PM Pk Volume**			1097	866	**1920**
Pk Hr Factor			0.935	0.824	**0.891**	**Pk Hr Factor**			0.882	0.852	**0.941**
7 - 9 Volume	0	0	1270	1569	**2839**	**4 - 6 Volume**	0	0	2093	1641	**3734**
7 - 9 Peak Hour			07:15	07:00	**07:00**	**4 - 6 Peak Hour**			17:00	16:45	**17:00**
7 - 9 Pk Volume	0	0	714	890	**1583**	**4 - 6 Pk Volume**	0	0	1086	861	**1920**
Pk Hr Factor	0.000	0.000	0.875	0.824	**0.891**	**Pk Hr Factor**	0.000	0.000	0.873	0.920	**0.941**

Prepared by National Data & Surveying Services

VOLUME

E Chapman Ave Bet. SR-57 & Bradford Ave

Day: Wednesday
Date: 9/25/2019

City: Placentia
Project #: CA19_1188_009

DAILY TOTALS	NB	SB	EB	WB	Total
	0	0	12,850	11,350	24,200

AM Period	NB	SB	EB		WB		TOTAL		PM Period	NB	SB	EB		WB		TOTAL	
00:00			41		13		54		12:00			170		161		331	
00:15			47		15		62		12:15			168		161		329	
00:30			28		7		35		12:30			199		154		353	
00:45			25	141	13	48	38	189	12:45			220	757	153	629	373	1386
01:00			20		9		29		13:00			193		149		342	
01:15			16		11		27		13:15			206		155		361	
01:30			15		7		22		13:30			180		161		341	
01:45			4	55	2	29	6	84	13:45			194	773	184	649	378	1422
02:00			9		10		19		14:00			214		166		380	
02:15			11		8		19		14:15			188		138		326	
02:30			13		10		23		14:30			209		149		358	
02:45			8	41	7	35	15	76	14:45			233	844	199	652	432	1496
03:00			5		8		13		15:00			219		236		455	
03:15			9		12		21		15:15			259		183		442	
03:30			7		9		16		15:30			203		219		422	
03:45			10	31	17	46	27	77	15:45			231	912	224	862	455	1774
04:00			11		18		29		16:00			259		176		435	
04:15			9		18		27		16:15			277		196		473	
04:30			19		31		50		16:30			299		214		513	
04:45			29	68	32	99	61	167	16:45			253	1088	214	800	467	1888
05:00			19		42		61		17:00			286		223		509	
05:15			32		65		97		17:15			278		236		514	
05:30			55		62		117		17:30			291		217		508	
05:45			60	166	102	271	162	437	17:45			312	1167	195	871	507	2038
06:00			58		91		149		18:00			255		219		474	
06:15			63		106		169		18:15			262		184		446	
06:30			95		173		268		18:30			249		196		445	
06:45			122	338	182	552	304	890	18:45			221	987	171	770	392	1757
07:00			138		186		324		19:00			198		122		320	
07:15			164		228		392		19:15			217		160		377	
07:30			215		226		441		19:30			161		137		298	
07:45			195	712	273	913	468	1625	19:45			156	732	124	543	280	1275
08:00			170		195		365		20:00			167		117		284	
08:15			144		178		322		20:15			147		96		243	
08:30			159		199		358		20:30			117		162		279	
08:45			136	609	157	729	293	1338	20:45			128	559	98	473	226	1032
09:00			141		164		305		21:00			139		77		216	
09:15			135		147		282		21:15			119		69		188	
09:30			125		147		272		21:30			106		61		167	
09:45			143	544	149	607	292	1151	21:45			115	479	40	247	155	726
10:00			136		123		259		22:00			151		58		209	
10:15			145		143		288		22:15			100		68		168	
10:30			112		158		270		22:30			75		63		138	
10:45			134	527	141	565	275	1092	22:45			92	418	48	237	140	655
11:00			145		155		300		23:00			93		35		128	
11:15			160		151		311		23:15			60		35		95	
11:30			164		187		351		23:30			49		15		64	
11:45			202	671	126	619	328	1290	23:45			29	231	19	104	48	335
TOTALS				3903		4513		8416	TOTALS				8947		6837		15784
SPLIT %				46.4%		53.6%		34.8%	SPLIT %				56.7%		43.3%		65.2%

DAILY TOTALS	NB	SB	EB	WB	Total
	0	0	12,850	11,350	24,200

AM Peak Hour			07:15	07:15	07:15	PM Peak Hour			17:00	16:45	17:00
AM Pk Volume			744	922	1666	PM Pk Volume			1167	890	2038
Pk Hr Factor			0.865	0.844	0.890	Pk Hr Factor			0.935	0.943	0.991
7 - 9 Volume	0	0	1321	1642	2963	4 - 6 Volume	0	0	2255	1671	3926
7 - 9 Peak Hour			07:15	07:15	07:15	4 - 6 Peak Hour			17:00	16:45	17:00
7 - 9 Pk Volume	0	0	744	922	1666	4 - 6 Pk Volume	0	0	1167	890	2038
Pk Hr Factor	0.000	0.000	0.865	0.844	0.890	Pk Hr Factor	0.000	0.000	0.935	0.943	0.991

Prepared by National Data & Surveying Services

VOLUME

Associated Rd Bet. SR-90 & Bastanchury Rd

Day: Tuesday
Date: 9/24/2019

City: Fullerton
Project #: CA19_1188_010

DAILY TOTALS	NB	SB	EB	WB	Total
	4,532	7,068	0	0	11,600

AM Period	NB		SB		EB		WB		TOTAL		PM Period	NB		SB		EB		WB		TOTAL	
00:00	13		9						22		12:00	51		96						147	
00:15	10		7						17		12:15	65		105						170	
00:30	7		4						11		12:30	49		106						155	
00:45	3	33	6	26					9	59	12:45	63	228	95	402					158	630
01:00	2		6						8		13:00	92		83						175	
01:15	1		3						4		13:15	64		95						159	
01:30	8		3						11		13:30	67		80						147	
01:45	2	13	5	17					7	30	13:45	61	284	102	360					163	644
02:00	6		1						7		14:00	74		119						193	
02:15	2		2						4		14:15	77		99						176	
02:30	0		3						3		14:30	75		111						186	
02:45	2	10	3	9					5	19	14:45	84	310	125	454					209	764
03:00	2		4						6		15:00	74		136						210	
03:15	1		5						6		15:15	63		102						165	
03:30	3		3						6		15:30	89		111						200	
03:45	2	8	3	15					5	23	15:45	99	325	128	477					227	802
04:00	3		4						7		16:00	92		112						204	
04:15	6		3						9		16:15	95		159						254	
04:30	4		5						9		16:30	100		166						266	
04:45	4	17	9	21					13	38	16:45	110	397	190	627					300	1024
05:00	6		13						19		17:00	109		167						276	
05:15	8		21						29		17:15	120		186						306	
05:30	9		34						43		17:30	136		155						291	
05:45	22	45	46	114					68	159	17:45	101	466	162	670					263	1136
06:00	21		63						84		18:00	107		130						237	
06:15	24		87						111		18:15	94		135						229	
06:30	28		133						161		18:30	93		108						201	
06:45	68	141	114	397					182	538	18:45	88	382	91	464					179	846
07:00	60		118						178		19:00	87		108						195	
07:15	48		172						220		19:15	79		89						168	
07:30	74		170						244		19:30	50		75						125	
07:45	91	273	139	599					230	872	19:45	58	274	69	341					127	615
08:00	68		140						208		20:00	46		64						110	
08:15	72		129						201		20:15	47		59						106	
08:30	58		143						201		20:30	47		40						87	
08:45	59	257	119	531					178	788	20:45	49	189	44	207					93	396
09:00	39		105						144		21:00	37		38						75	
09:15	44		83						127		21:15	34		49						83	
09:30	40		86						126		21:30	42		36						78	
09:45	57	180	106	380					163	560	21:45	41	154	37	160					78	314
10:00	44		84						128		22:00	39		36						75	
10:15	41		80						121		22:15	19		33						52	
10:30	42		73						115		22:30	25		18						43	
10:45	41	168	84	321					125	489	22:45	23	106	24	111					47	217
11:00	43		81						124		23:00	16		11						27	
11:15	50		81						131		23:15	12		5						17	
11:30	61		86						147		23:30	16		8						24	
11:45	63	217	86	334					149	551	23:45	11	55	7	31					18	86
TOTALS		1362		2764						4126	TOTALS		3170		4304						7474
SPLIT %		33.0%		67.0%						35.6%	SPLIT %		42.4%		57.6%						64.4%

DAILY TOTALS	NB	SB	EB	WB	Total
	4,532	7,068	0	0	11,600

AM Peak Hour	07:30	07:15			07:15	PM Peak Hour	16:45	16:30			16:45
AM Pk Volume	305	621			902	PM Pk Volume	475	709			1173
Pk Hr Factor	0.838	0.903			0.924	Pk Hr Factor	0.873	0.933			0.958
7 - 9 Volume	530	1130	0	0	1660	4 - 6 Volume	863	1297	0	0	2160
7 - 9 Peak Hour	07:30	07:15			07:15	4 - 6 Peak Hour	16:45	16:30			16:45
7 - 9 Pk Volume	305	621	0	0	902	4 - 6 Pk Volume	475	709	0	0	1173
Pk Hr Factor	0.838	0.903	0.000	0.000	0.924	Pk Hr Factor	0.873	0.933	0.000	0.000	0.958

Prepared by National Data & Surveying Services

VOLUME

Associated Rd Bet. SR-90 & Bastanchury Rd

Day: Wednesday
Date: 9/25/2019

City: Fullerton
Project #: CA19_1188_010

DAILY TOTALS	NB	SB	EB	WB	Total
	4,543	7,715	0	0	12,258

AM Period	NB		SB		EB		WB		TOTAL		PM Period	NB		SB		EB		WB		TOTAL	
00:00	13		5						18		12:00	62		106						168	
00:15	6		12						18		12:15	48		106						154	
00:30	14		1						15		12:30	60		139						199	
00:45	3	36	9	27					12	63	12:45	58	228	121	472					179	700
01:00	5		1						6		13:00	87		118						205	
01:15	2		6						8		13:15	73		119						192	
01:30	6		1						7		13:30	77		146						223	
01:45	2	15	2	10					4	25	13:45	59	296	133	516					192	812
02:00	2		1						3		14:00	67		105						172	
02:15	3		1						4		14:15	59		89						148	
02:30	2		3						5		14:30	76		119						195	
02:45	4	11	17	22					21	33	14:45	61	263	115	428					176	691
03:00	1		8						9		15:00	77		136						213	
03:15	1		2						3		15:15	78		87						165	
03:30	1		3						4		15:30	83		111						194	
03:45	0	3	4	17					4	20	15:45	100	338	108	442					208	780
04:00	5		6						11		16:00	94		107						201	
04:15	2		6						8		16:15	96		182						278	
04:30	6		6						12		16:30	88		194						282	
04:45	10	23	13	31					23	54	16:45	107	385	175	658					282	1043
05:00	4		12						16		17:00	138		166						304	
05:15	2		24						26		17:15	132		203						335	
05:30	7		37						44		17:30	113		141						254	
05:45	14	27	48	121					62	148	17:45	89	472	169	679					258	1151
06:00	18		73						91		18:00	96		110						206	
06:15	19		91						110		18:15	92		120						212	
06:30	34		108						142		18:30	93		127						220	
06:45	63	134	122	394					185	528	18:45	85	366	78	435					163	801
07:00	58		139						197		19:00	98		100						198	
07:15	48		183						231		19:15	74		88						162	
07:30	66		234						300		19:30	59		84						143	
07:45	82	254	157	713					239	967	19:45	53	284	77	349					130	633
08:00	65		171						236		20:00	56		64						120	
08:15	46		156						202		20:15	64		60						124	
08:30	44		172						216		20:30	58		41						99	
08:45	39	194	126	625					165	819	20:45	52	230	45	210					97	440
09:00	49		120						169		21:00	47		42						89	
09:15	42		115						157		21:15	42		55						97	
09:30	54		99						153		21:30	41		33						74	
09:45	57	202	113	447					170	649	21:45	31	161	43	173					74	334
10:00	48		86						134		22:00	27		42						69	
10:15	61		91						152		22:15	20		35						55	
10:30	51		91						142		22:30	25		18						43	
10:45	58	218	99	367					157	585	22:45	23	95	22	117					45	212
11:00	52		89						141		23:00	23		13						36	
11:15	64		116						180		23:15	19		9						28	
11:30	69		97						166		23:30	18		4						22	
11:45	60	245	125	427					185	672	23:45	3	63	9	35					12	98
TOTALS		1362		3201						4563	TOTALS		3181		4514						7695
SPLIT %		29.8%		70.2%						37.2%	SPLIT %		41.3%		58.7%						62.8%

DAILY TOTALS	NB	SB	EB	WB	Total
	4,543	7,715	0	0	12,258

AM Peak Hour	07:15	07:15			07:15	PM Peak Hour	16:45	16:30			16:30
AM Pk Volume	261	745			1006	PM Pk Volume	490	738			1203
Pk Hr Factor	0.796	0.796			0.838	Pk Hr Factor	0.888	0.909			0.898
7 - 9 Volume	448	1338	0	0	1786	4 - 6 Volume	857	1337	0	0	2194
7 - 9 Peak Hour	07:15	07:15			07:15	4 - 6 Peak Hour	16:45	16:30			16:30
7 - 9 Pk Volume	261	745	0	0	1006	4 - 6 Pk Volume	490	738	0	0	1203
Pk Hr Factor	0.796	0.796	0.000	0.000	0.838	Pk Hr Factor	0.888	0.909	0.000	0.000	0.898

Prepared by National Data & Surveying Services

VOLUME

Associated Rd Bet. Bastanchury Rd & Yorba Linda Blvd

Day: Tuesday
Date: 9/24/2019

City: Fullerton
Project #: CA19_1188_011

DAILY TOTALS	NB	SB	EB	WB	Total
	10,609	12,965	0	0	23,574

AM Period	NB		SB		EB		WB		TOTAL		PM Period	NB		SB		EB		WB		TOTAL	
00:00	27		19						46		12:00	159		197						356	
00:15	25		20						45		12:15	154		190						344	
00:30	22		8						30		12:30	141		173						314	
00:45	16	90	10	57					26	147	12:45	137	591	204	764					341	1355
01:00	12		6						18		13:00	165		136						301	
01:15	10		10						20		13:15	135		150						285	
01:30	12		9						21		13:30	154		184						338	
01:45	15	49	8	33					23	82	13:45	143	597	182	652					325	1249
02:00	14		9						23		14:00	141		195						336	
02:15	3		9						12		14:15	198		189						387	
02:30	9		5						14		14:30	188		248						436	
02:45	10	36	11	34					21	70	14:45	185	712	223	855					408	1567
03:00	5		7						12		15:00	167		224						391	
03:15	3		6						9		15:15	176		180						356	
03:30	9		11						20		15:30	177		180						357	
03:45	5	22	17	41					22	63	15:45	211	731	218	802					429	1533
04:00	3		12						15		16:00	223		232						455	
04:15	8		30						38		16:15	203		202						405	
04:30	8		29						37		16:30	229		214						443	
04:45	21	40	38	109					59	149	16:45	212	867	214	862					426	1729
05:00	10		30						40		17:00	228		268						496	
05:15	16		69						85		17:15	243		226						469	
05:30	28		106						134		17:30	244		238						482	
05:45	41	95	121	326					162	421	17:45	236	951	237	969					473	1920
06:00	41		158						199		18:00	228		219						447	
06:15	66		206						272		18:15	222		198						420	
06:30	57		238						295		18:30	232		189						421	
06:45	123	287	235	837					358	1124	18:45	243	925	165	771					408	1696
07:00	124		223						347		19:00	200		175						375	
07:15	114		257						371		19:15	165		157						322	
07:30	150		291						441		19:30	156		142						298	
07:45	174	562	291	1062					465	1624	19:45	135	656	103	577					238	1233
08:00	142		233						375		20:00	119		106						225	
08:15	114		247						361		20:15	134		80						214	
08:30	119		243						362		20:30	126		109						235	
08:45	130	505	217	940					347	1445	20:45	137	516	113	408					250	924
09:00	107		202						309		21:00	100		116						216	
09:15	131		202						333		21:15	124		84						208	
09:30	109		227						336		21:30	110		95						205	
09:45	113	460	205	836					318	1296	21:45	143	477	76	371					219	848
10:00	119		148						267		22:00	102		68						170	
10:15	101		155						256		22:15	62		60						122	
10:30	128		177						305		22:30	59		47						106	
10:45	112	460	153	633					265	1093	22:45	46	269	44	219					90	488
11:00	124		163						287		23:00	52		48						100	
11:15	130		167						297		23:15	39		35						74	
11:30	158		183						341		23:30	33		29						62	
11:45	143	555	164	677					307	1232	23:45	32	156	18	130					50	286
TOTALS		3161		5585						8746	TOTALS		7448		7380						14828
SPLIT %		36.1%		63.9%						37.1%	SPLIT %		50.2%		49.8%						62.9%

DAILY TOTALS	NB	SB	EB	WB	Total
	10,609	12,965	0	0	23,574

AM Peak Hour	11:30	07:15			07:15	PM Peak Hour	17:00	17:00			17:00
AM Pk Volume	614	1072			1652	PM Pk Volume	951	969			1920
Pk Hr Factor	0.965	0.921			0.888	Pk Hr Factor	0.974	0.904			0.968
7 - 9 Volume	1067	2002	0	0	3069	4 - 6 Volume	1818	1831	0	0	3649
7 - 9 Peak Hour	07:15	07:15			07:15	4 - 6 Peak Hour	17:00	17:00			17:00
7 - 9 Pk Volume	580	1072	0	0	1652	4 - 6 Pk Volume	951	969	0	0	1920
Pk Hr Factor	0.833	0.921	0.000	0.000	0.888	Pk Hr Factor	0.974	0.904	0.000	0.000	0.968

Prepared by National Data & Surveying Services

VOLUME

Associated Rd Bet. Bastanchury Rd & Yorba Linda Blvd

Day: Wednesday
Date: 9/25/2019

City: Fullerton
Project #: CA19_1188_011

DAILY TOTALS	NB	SB	EB	WB	Total
	10,873	13,142	0	0	24,015

AM Period	NB		SB		EB		WB		TOTAL		PM Period	NB		SB		EB		WB		TOTAL	
00:00	29		22						51		12:00	139		191						330	
00:15	29		17						46		12:15	119		164						283	
00:30	26		16						42		12:30	125		194						319	
00:45	12	96	7	62					19	158	12:45	157	540	152	701					309	1241
01:00	17		13						30		13:00	161		137						298	
01:15	12		8						20		13:15	164		177						341	
01:30	19		14						33		13:30	165		206						371	
01:45	13	61	10	45					23	106	13:45	129	619	179	699					308	1318
02:00	6		7						13		14:00	126		196						322	
02:15	7		7						14		14:15	168		208						376	
02:30	11		10						21		14:30	195		193						388	
02:45	6	30	9	33					15	63	14:45	179	668	249	846					428	1514
03:00	10		9						19		15:00	217		212						429	
03:15	4		11						15		15:15	195		203						398	
03:30	4		14						18		15:30	177		242						419	
03:45	11	29	14	48					25	77	15:45	194	783	241	898					435	1681
04:00	10		11						21		16:00	238		216						454	
04:15	8		29						37		16:15	187		260						447	
04:30	11		30						41		16:30	217		220						437	
04:45	18	47	37	107					55	154	16:45	230	872	237	933					467	1805
05:00	13		39						52		17:00	262		252						514	
05:15	17		63						80		17:15	253		254						507	
05:30	27		81						108		17:30	249		209						458	
05:45	40	97	137	320					177	417	17:45	226	990	239	954					465	1944
06:00	37		125						162		18:00	229		234						463	
06:15	63		186						249		18:15	226		211						437	
06:30	67		247						314		18:30	212		225						437	
06:45	132	299	226	784					358	1083	18:45	190	857	228	898					418	1755
07:00	114		242						356		19:00	213		165						378	
07:15	102		240						342		19:15	183		165						348	
07:30	132		256						388		19:30	157		127						284	
07:45	184	532	299	1037					483	1569	19:45	143	696	132	589					275	1285
08:00	159		235						394		20:00	123		125						248	
08:15	110		237						347		20:15	137		87						224	
08:30	108		218						326		20:30	145		106						251	
08:45	132	509	204	894					336	1403	20:45	129	534	106	424					235	958
09:00	113		199						312		21:00	142		67						209	
09:15	152		216						368		21:15	118		106						224	
09:30	120		200						320		21:30	137		96						233	
09:45	120	505	189	804					309	1309	21:45	126	523	76	345					202	868
10:00	112		176						288		22:00	99		87						186	
10:15	130		150						280		22:15	67		61						128	
10:30	108		165						273		22:30	69		48						117	
10:45	148	498	164	655					312	1153	22:45	70	305	62	258					132	563
11:00	146		164						310		23:00	66		52						118	
11:15	134		172						306		23:15	61		44						105	
11:30	133		137						270		23:30	46		38						84	
11:45	165	578	185	658					350	1236	23:45	32	205	16	150					48	355
TOTALS		3281		5447						8728	TOTALS		7592		7695						15287
SPLIT %		37.6%		62.4%						36.3%	SPLIT %		49.7%		50.3%						63.7%

DAILY TOTALS	NB	SB	EB	WB	Total
	10,873	13,142	0	0	24,015

AM Peak Hour	07:30	07:00			07:30	PM Peak Hour	16:45	16:15			16:45
AM Pk Volume	585	1037			1612	PM Pk Volume	994	969			1946
Pk Hr Factor	0.795	0.867			0.834	Pk Hr Factor	0.948	0.932			0.946
7 - 9 Volume	1041	1931	0	0	2972	4 - 6 Volume	1862	1887	0	0	3749
7 - 9 Peak Hour	07:30	07:00			07:30	4 - 6 Peak Hour	16:45	16:15			16:45
7 - 9 Pk Volume	585	1037	0	0	1612	4 - 6 Pk Volume	994	969	0	0	1946
Pk Hr Factor	0.795	0.867	0.000	0.000	0.834	Pk Hr Factor	0.948	0.932	0.000	0.000	0.946

Prepared by National Data & Surveying Services

VOLUME

Commonwealth Ave Bet. Nutwood Ave & E Chapman Ave

Day: Tuesday
Date: 9/24/2019

City: Fullerton
Project #: CA19_1188_012

DAILY TOTALS	NB	SB	EB	WB	Total
	6,686	3,629	0	0	10,315

AM Period	NB		SB		EB		WB		TOTAL		PM Period	NB		SB		EB		WB		TOTAL	
00:00	8		14						22		12:00	123		41						164	
00:15	6		11						17		12:15	115		54						169	
00:30	15		6						21		12:30	128		58						186	
00:45	9	38	7	38					16	76	12:45	143	509	82	235					225	744
01:00	3		2						5		13:00	101		70						171	
01:15	3		5						8		13:15	96		59						155	
01:30	6		2						8		13:30	88		48						136	
01:45	4	16	0	9					4	25	13:45	107	392	37	214					144	606
02:00	4		2						6		14:00	124		68						192	
02:15	3		1						4		14:15	129		61						190	
02:30	2		5						7		14:30	120		82						202	
02:45	2	11	0	8					2	19	14:45	119	492	59	270					178	762
03:00	1		1						2		15:00	96		57						153	
03:15	0		1						1		15:15	110		54						164	
03:30	4		4						8		15:30	159		62						221	
03:45	4	9	5	11					9	20	15:45	129	494	95	268					224	762
04:00	1		2						3		16:00	82		100						182	
04:15	4		5						9		16:15	116		57						173	
04:30	6		8						14		16:30	109		40						149	
04:45	3	14	7	22					10	36	16:45	89	396	57	254					146	650
05:00	5		3						8		17:00	136		102						238	
05:15	12		6						18		17:15	85		85						170	
05:30	11		12						23		17:30	106		87						193	
05:45	16	44	18	39					34	83	17:45	84	411	62	336					146	747
06:00	23		10						33		18:00	90		56						146	
06:15	39		17						56		18:15	90		60						150	
06:30	60		15						75		18:30	121		70						191	
06:45	74	196	29	71					103	267	18:45	147	448	100	286					247	734
07:00	115		23						138		19:00	96		93						189	
07:15	118		29						147		19:15	83		66						149	
07:30	151		38						189		19:30	43		52						95	
07:45	229	613	42	132					271	745	19:45	49	271	29	240					78	511
08:00	282		50						332		20:00	58		43						101	
08:15	203		55						258		20:15	55		43						98	
08:30	93		41						134		20:30	37		39						76	
08:45	81	659	38	184					119	843	20:45	35	185	40	165					75	350
09:00	83		32						115		21:00	40		36						76	
09:15	88		41						129		21:15	36		40						76	
09:30	97		40						137		21:30	52		42						94	
09:45	100	368	54	167					154	535	21:45	34	162	34	152					68	314
10:00	76		39						115		22:00	41		35						76	
10:15	75		36						111		22:15	42		27						69	
10:30	63		30						93		22:30	37		27						64	
10:45	73	287	41	146					114	433	22:45	50	170	25	114					75	284
11:00	103		49						152		23:00	29		22						51	
11:15	107		80						187		23:15	22		12						34	
11:30	89		45						134		23:30	24		15						39	
11:45	93	392	28	202					121	594	23:45	34	109	17	66					51	175
TOTALS		2647		1029						3676	TOTALS		4039		2600						6639
SPLIT %		72.0%		28.0%						35.6%	SPLIT %		60.8%		39.2%						64.4%

DAILY TOTALS	NB	SB	EB	WB	Total
	6,686	3,629	0	0	10,315

AM Peak Hour	07:30	10:45			07:30	PM Peak Hour	12:00	17:00			15:30
AM Pk Volume	865	215			1050	PM Pk Volume	509	336			800
Pk Hr Factor	0.767	0.672			0.791	Pk Hr Factor	0.890	0.824			0.893
7 - 9 Volume	1272	316	0	0	1588	4 - 6 Volume	807	590	0	0	1397
7 - 9 Peak Hour	07:30	07:45			07:30	4 - 6 Peak Hour	16:15	17:00			16:45
7 - 9 Pk Volume	865	188	0	0	1050	4 - 6 Pk Volume	450	336	0	0	747
Pk Hr Factor	0.767	0.855	0.000	0.000	0.791	Pk Hr Factor	0.827	0.824	0.000	0.000	0.785

Prepared by National Data & Surveying Services

VOLUME

Commonwealth Ave Bet. Nutwood Ave & E Chapman Ave

Day: Wednesday
Date: 9/25/2019

City: Fullerton
Project #: CA19_1188_012

DAILY TOTALS	NB	SB	EB	WB	Total
	6,289	3,775	0	0	10,064

AM Period	NB		SB		EB		WB		TOTAL		PM Period	NB		SB		EB		WB		TOTAL	
00:00	26		13						39		12:00	60		48						108	
00:15	26		14						40		12:15	120		64						184	
00:30	17		3						20		12:30	133		68						201	
00:45	6	75	10	40					16	115	12:45	101	414	60	240					161	654
01:00	8		12						20		13:00	76		71						147	
01:15	10		2						12		13:15	71		45						116	
01:30	3		4						7		13:30	81		40						121	
01:45	5	26	6	24					11	50	13:45	98	326	58	214					156	540
02:00	5		3						8		14:00	92		49						141	
02:15	2		1						3		14:15	114		75						189	
02:30	0		2						2		14:30	74		63						137	
02:45	2	9	0	6					2	15	14:45	92	372	50	237					142	609
03:00	0		1						1		15:00	84		49						133	
03:15	2		1						3		15:15	100		58						158	
03:30	2		2						4		15:30	132		68						200	
03:45	5	9	3	7					8	16	15:45	123	439	91	266					214	705
04:00	1		4						5		16:00	116		90						206	
04:15	5		5						10		16:15	79		57						136	
04:30	2		4						6		16:30	93		58						151	
04:45	7	15	12	25					19	40	16:45	92	380	45	250					137	630
05:00	3		10						13		17:00	120		95						215	
05:15	6		8						14		17:15	112		82						194	
05:30	16		10						26		17:30	96		99						195	
05:45	19	44	15	43					34	87	17:45	89	417	52	328					141	745
06:00	19		13						32		18:00	83		55						138	
06:15	33		13						46		18:15	98		64						162	
06:30	42		17						59		18:30	120		72						192	
06:45	61	155	20	63					81	218	18:45	131	432	74	265					205	697
07:00	100		26						126		19:00	76		82						158	
07:15	148		29						177		19:15	71		56						127	
07:30	186		42						228		19:30	53		50						103	
07:45	245	679	45	142					290	821	19:45	48	248	41	229					89	477
08:00	208		57						265		20:00	40		64						104	
08:15	153		59						212		20:15	47		52						99	
08:30	101		43						144		20:30	41		49						90	
08:45	102	564	35	194					137	758	20:45	45	173	48	213					93	386
09:00	68		28						96		21:00	44		47						91	
09:15	80		35						115		21:15	71		47						118	
09:30	98		53						151		21:30	60		59						119	
09:45	107	353	76	192					183	545	21:45	57	232	60	213					117	445
10:00	84		42						126		22:00	42		42						84	
10:15	62		35						97		22:15	38		34						72	
10:30	72		38						110		22:30	49		33						82	
10:45	83	301	59	174					142	475	22:45	52	181	16	125					68	306
11:00	81		49						130		23:00	49		18						67	
11:15	78		78						156		23:15	33		15						48	
11:30	81		59						140		23:30	19		11						30	
11:45	95	335	46	232					141	567	23:45	9	110	9	53					18	163
TOTALS		2565		1142						3707	TOTALS		3724		2633						6357
SPLIT %		69.2%		30.8%						36.8%	SPLIT %		58.6%		41.4%						63.2%

DAILY TOTALS	NB	SB	EB	WB	Total
	6,289	3,775	0	0	10,064

AM Peak Hour	07:30	10:45			07:30	PM Peak Hour	15:15	17:00			15:15
AM Pk Volume	792	245			995	PM Pk Volume	471	328			778
Pk Hr Factor	0.808	0.785			0.858	Pk Hr Factor	0.892	0.828			0.909
7 - 9 Volume	1243	336	0	0	1579	4 - 6 Volume	797	578	0	0	1375
7 - 9 Peak Hour	07:30	07:45			07:30	4 - 6 Peak Hour	16:45	17:00			17:00
7 - 9 Pk Volume	792	204	0	0	995	4 - 6 Pk Volume	420	328	0	0	745
Pk Hr Factor	0.808	0.864	0.000	0.000	0.858	Pk Hr Factor	0.875	0.828	0.000	0.000	0.866

Prepared by National Data & Surveying Services

VOLUME

Commonwealth Ave Bet. E Chapman Ave & State College Blvd

Day: Tuesday
Date: 9/24/2019

City: Fullerton
Project #: CA19_1188_013

DAILY TOTALS	NB	SB	EB	WB	Total
	5,193	4,096	0	0	9,289

AM Period	NB		SB		EB		WB		TOTAL		PM Period	NB		SB		EB		WB		TOTAL	
00:00	13		8						21		12:00	74		58						132	
00:15	9		9						18		12:15	78		50						128	
00:30	7		8						15		12:30	73		68						141	
00:45	10	39	6	31					16	70	12:45	77	302	75	251					152	553
01:00	8		6						14		13:00	80		77						157	
01:15	9		5						14		13:15	69		68						137	
01:30	4		1						5		13:30	78		47						125	
01:45	7	28	4	16					11	44	13:45	70	297	53	245					123	542
02:00	2		5						7		14:00	81		64						145	
02:15	5		3						8		14:15	75		63						138	
02:30	3		8						11		14:30	83		77						160	
02:45	7	17	2	18					9	35	14:45	70	309	62	266					132	575
03:00	3		1						4		15:00	78		64						142	
03:15	2		8						10		15:15	80		65						145	
03:30	6		5						11		15:30	87		66						153	
03:45	7	18	9	23					16	41	15:45	84	329	85	280					169	609
04:00	10		8						18		16:00	86		101						187	
04:15	8		5						13		16:15	84		59						143	
04:30	19		15						34		16:30	94		75						169	
04:45	8	45	10	38					18	83	16:45	87	351	77	312					164	663
05:00	21		7						28		17:00	130		90						220	
05:15	19		9						28		17:15	73		122						195	
05:30	34		17						51		17:30	112		103						215	
05:45	37	111	42	75					79	186	17:45	70	385	99	414					169	799
06:00	28		24						52		18:00	91		77						168	
06:15	43		31						74		18:15	97		77						174	
06:30	60		38						98		18:30	95		59						154	
06:45	65	196	45	138					110	334	18:45	75	358	80	293					155	651
07:00	70		48						118		19:00	74		81						155	
07:15	89		49						138		19:15	52		60						112	
07:30	96		60						156		19:30	74		54						128	
07:45	122	377	61	218					183	595	19:45	68	268	54	249					122	517
08:00	140		50						190		20:00	66		41						107	
08:15	104		53						157		20:15	60		33						93	
08:30	72		54						126		20:30	47		34						81	
08:45	59	375	42	199					101	574	20:45	34	207	43	151					77	358
09:00	67		53						120		21:00	48		29						77	
09:15	58		55						113		21:15	44		41						85	
09:30	78		49						127		21:30	47		27						74	
09:45	59	262	48	205					107	467	21:45	33	172	25	122					58	294
10:00	58		49						107		22:00	39		26						65	
10:15	56		48						104		22:15	50		25						75	
10:30	47		55						102		22:30	46		22						68	
10:45	54	215	54	206					108	421	22:45	45	180	15	88					60	268
11:00	69		43						112		23:00	21		13						34	
11:15	71		70						141		23:15	25		10						35	
11:30	56		51						107		23:30	23		10						33	
11:45	65	261	44	208					109	469	23:45	22	91	17	50					39	141
TOTALS		1944		1375						3319	TOTALS		3249		2721						5970
SPLIT %		58.6%		41.4%						35.7%	SPLIT %		54.4%		45.6%						64.3%

DAILY TOTALS	NB	SB	EB	WB	Total
	5,193	4,096	0	0	9,289

AM Peak Hour	07:30	07:30			07:30	PM Peak Hour	16:45	17:00			17:00
AM Pk Volume	462	224			686	PM Pk Volume	402	414			799
Pk Hr Factor	0.825	0.918			0.903	Pk Hr Factor	0.773	0.848			0.908
7 - 9 Volume	752	417	0	0	1169	4 - 6 Volume	736	726	0	0	1462
7 - 9 Peak Hour	07:30	07:30			07:30	4 - 6 Peak Hour	16:45	17:00			17:00
7 - 9 Pk Volume	462	224	0	0	686	4 - 6 Pk Volume	402	414	0	0	799
Pk Hr Factor	0.825	0.918	0.000	0.000	0.903	Pk Hr Factor	0.773	0.848	0.000	0.000	0.908

Prepared by National Data & Surveying Services

VOLUME

Commonwealth Ave Bet. E Chapman Ave & State College Blvd

Day: Wednesday
Date: 9/25/2019

City: Fullerton
Project #: CA19_1188_013

DAILY TOTALS	NB	SB	EB	WB	Total
	5,233	4,052	0	0	9,285

AM Period	NB		SB		EB		WB		TOTAL		PM Period	NB		SB		EB		WB		TOTAL	
00:00	15		9						24		12:00	57		47						104	
00:15	16		5						21		12:15	97		56						153	
00:30	13		4						17		12:30	72		61						133	
00:45	18	62	8	26					26	88	12:45	72	298	58	222					130	520
01:00	8		7						15		13:00	68		50						118	
01:15	6		9						15		13:15	56		52						108	
01:30	8		3						11		13:30	78		55						133	
01:45	9	31	3	22					12	53	13:45	66	268	53	210					119	478
02:00	5		3						8		14:00	71		47						118	
02:15	8		2						10		14:15	82		54						136	
02:30	6		1						7		14:30	77		61						138	
02:45	3	22	2	8					5	30	14:45	60	290	61	223					121	513
03:00	5		3						8		15:00	80		63						143	
03:15	3		1						4		15:15	116		81						197	
03:30	6		6						12		15:30	91		56						147	
03:45	5	19	5	15					10	34	15:45	87	374	65	265					152	639
04:00	8		10						18		16:00	95		97						192	
04:15	7		8						15		16:15	68		62						130	
04:30	16		10						26		16:30	86		67						153	
04:45	15	46	12	40					27	86	16:45	100	349	67	293					167	642
05:00	18		13						31		17:00	107		96						203	
05:15	13		13						26		17:15	93		101						194	
05:30	33		16						49		17:30	83		104						187	
05:45	41	105	37	79					78	184	17:45	78	361	77	378					155	739
06:00	34		30						64		18:00	83		76						159	
06:15	45		26						71		18:15	118		76						194	
06:30	55		31						86		18:30	95		66						161	
06:45	60	194	46	133					106	327	18:45	72	368	80	298					152	666
07:00	82		38						120		19:00	44		83						127	
07:15	90		53						143		19:15	49		72						121	
07:30	109		61						170		19:30	70		50						120	
07:45	149	430	72	224					221	654	19:45	53	216	39	244					92	460
08:00	138		67						205		20:00	58		46						104	
08:15	80		61						141		20:15	45		40						85	
08:30	73		52						125		20:30	59		44						103	
08:45	62	353	66	246					128	599	20:45	58	220	45	175					103	395
09:00	69		46						115		21:00	55		39						94	
09:15	58		50						108		21:15	56		38						94	
09:30	67		53						120		21:30	44		34						78	
09:45	85	279	60	209					145	488	21:45	47	202	44	155					91	357
10:00	55		56						111		22:00	29		22						51	
10:15	61		48						109		22:15	34		28						62	
10:30	63		47						110		22:30	39		23						62	
10:45	53	232	44	195					97	427	22:45	46	148	17	90					63	238
11:00	66		55						121		23:00	32		23						55	
11:15	69		74						143		23:15	30		14						44	
11:30	65		55						120		23:30	19		11						30	
11:45	68	268	60	244					128	512	23:45	17	98	10	58					27	156
TOTALS		2041		1441						3482	TOTALS		3192		2611						5803
SPLIT %		58.6%		41.4%						37.5%	SPLIT %		55.0%		45.0%						62.5%

DAILY TOTALS	NB	SB	EB	WB	Total
	5,233	4,052	0	0	9,285

AM Peak Hour	07:15	07:30			07:15	PM Peak Hour	15:15	17:00			16:45
AM Pk Volume	486	261			739	PM Pk Volume	389	378			751
Pk Hr Factor	0.815	0.906			0.836	Pk Hr Factor	0.838	0.909			0.925
7 - 9 Volume	783	470	0	0	1253	4 - 6 Volume	710	671	0	0	1381
7 - 9 Peak Hour	07:15	07:30			07:15	4 - 6 Peak Hour	16:30	17:00			16:45
7 - 9 Pk Volume	486	261	0	0	739	4 - 6 Pk Volume	386	378	0	0	751
Pk Hr Factor	0.815	0.906	0.000	0.000	0.836	Pk Hr Factor	0.902	0.909	0.000	0.000	0.925

Appendix N

Biological Resource Assessment Memorandum

Rincon Consultants, Inc.

250 East 1st Street, Suite 1400
Los Angeles, California 90012

213 788 4842 OFFICE AND FAX

info@rinconconsultants.com
www.rinconconsultants.com

August 1, 2019
Project No: 18-06014

Emil Zordilla
Director, Office of Planning and Design
California State University, Fullerton
800 North State College Boulevard
Fullerton, California 92831
(657) 278-7665
Via email: ezordilla@exchange.fullerton.edu

Subject: Biological Resources Assessment Memorandum for the California State University Fullerton Education and Facilities Master Plan Update Project, Fullerton, California

Dear Mr. Zordilla,

Rincon Consultants, Inc. (Rincon) is pleased to submit this Biological Resources Assessment Memorandum (BRAM) for the California State University Fullerton (CSUF) Education and Facilities Master Plan Update Project (project) located at 800 North State College Boulevard in Fullerton, California. The purpose of the BRAM is to document the existing conditions of sensitive biological resources within the project and evaluate the potential for rare, threatened, and endangered species occur at the project site or to be affected by the proposed construction activities.

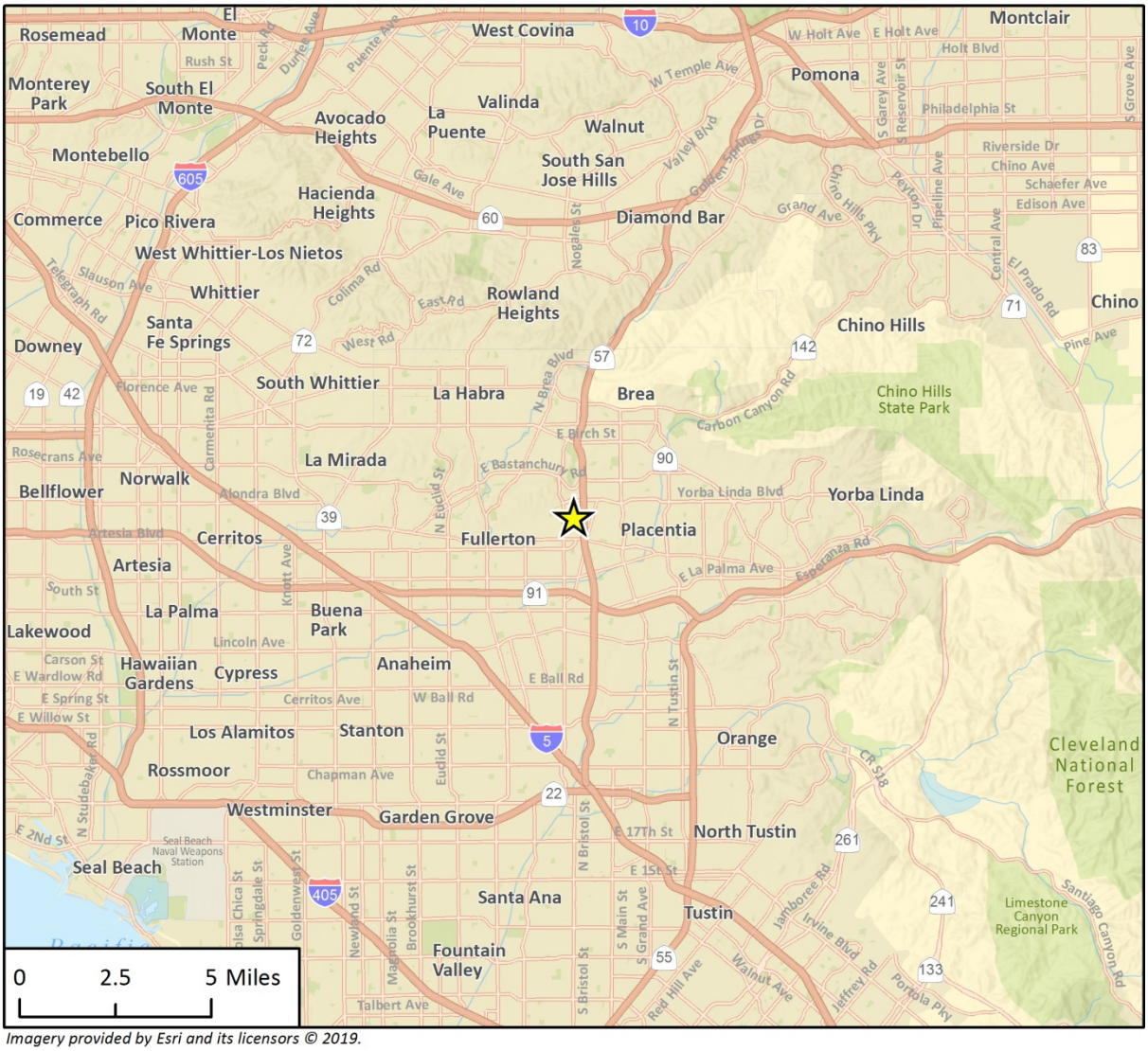
The project impacts, regulations, and mitigation measures (MMs) are discussed in accordance with the California Environmental Quality Act (CEQA) and anticipated environmental review related to the project.

Project Description and Location

The proposed project is the CSUF Educational and Facilities Master Plan Update, also referred to as the Campus Master Plan (CMP). The proposed project is an update of the 2003 CSUF Master Development Plan (MDP). The CMP is a guide for the future development of the CSUF campus. According to the CSUF Division of Academic Affairs, CSUF reached the MDP Ceiling of 25,000 on-campus full-time equivalent student (FTES) in the 2016-2017 academic year. The CMP will be designed to accommodate a 32,000 FTES ceiling through the year 2039. The FTES increase is based on estimates of future demand for CSUF's services. The CMP would accommodate, not cause, these projected FTES increases, which are projected to occur with or without implementation of the CMP.

The proposed project is located at 800 North State College Boulevard, Fullerton, Orange County, California (Figure 1) and encompasses the entire CSUF campus (Figure 2). The main portion of the campus occurs between Nutwood Avenue to the south, State College Boulevard to the west, Yorba Linda Boulevard to the north, and State Route (SR) 57, the Orange Freeway, to the east. An additional area of the campus lies between Nutwood Ave to the north, Langsdorf Drive to the east, College Place to

Figure 1 Regional Location



Imagery provided by Esri and its licensors © 2019.

Project Location

N

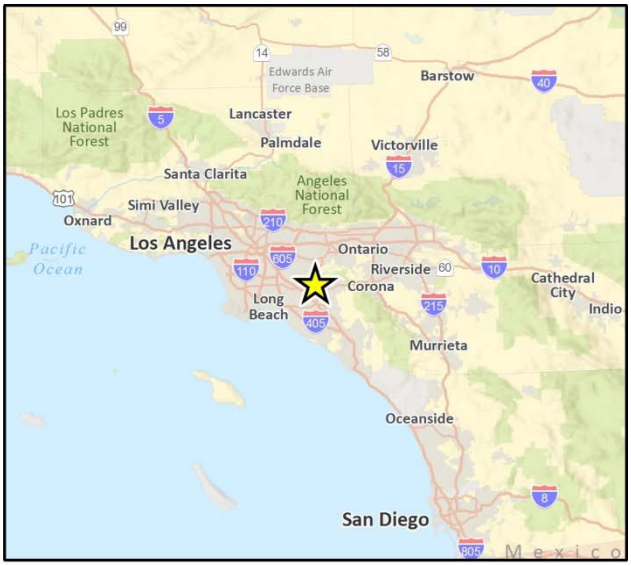


Figure 2 Project Location

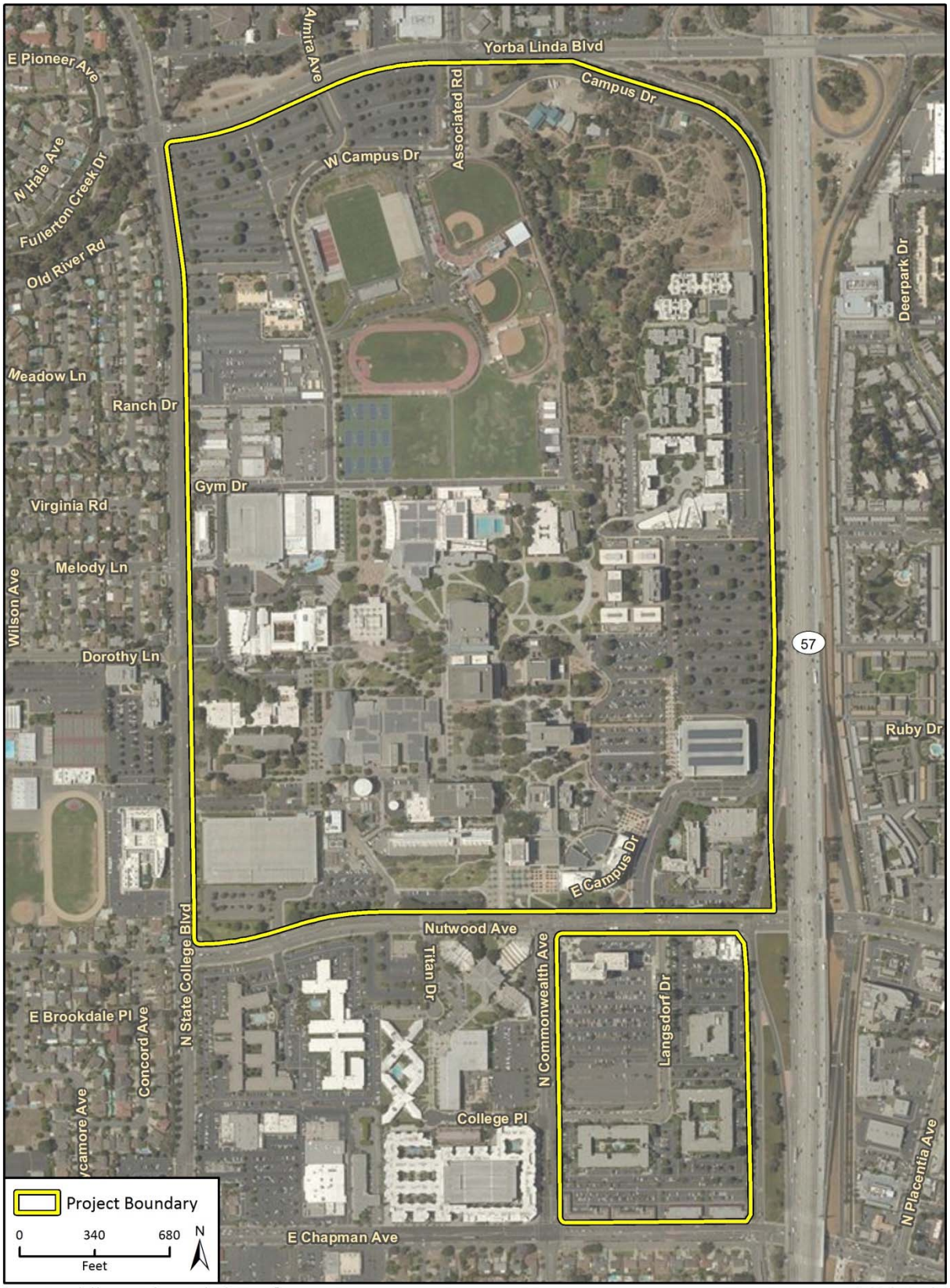


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Fig 2 Project Location

the south, and North Commonwealth Avenue to the west. The project site encompasses approximately 240 acres. The project site is depicted on the *La Habra and Anaheim*, *California* United States Geological Survey 7.5-minute quadrangle map (USGS 2019).

Methodology

Regulatory Overview

Regulated or sensitive resources studied and analyzed herein include special-status plant and wildlife species, nesting birds and raptors, sensitive plant communities, jurisdictional waters and wetlands, wildlife movement, and locally protected resources, such as protected trees. For the purpose of this report, potential impacts to biological resources were analyzed based on the following statutes:

Federal

- Federal Endangered Species Act (ESA)
- Federal Clean Water Act (CWA)
- Migratory Bird Treaty Act (MBTA)
- The Bald and Golden Eagle Protection Act

State

- California Environmental Quality Act (CEQA)
- California Endangered Species Act (CESA)
- California Fish and Game Code (CFGC)
- Porter-Cologne Water Quality Control Act

Local

- City of Fullerton Municipal Code Section 9.06

Literature Review

Prior to conducting the biological field survey, Rincon Biologist Amy Leigh Trost reviewed the project plans (provided by the client), aerial photographs, and previous historical land use of the project site. Queries of the California Department of Fish and Wildlife (CDFW) California Natural Diversity Database (CNDDB; CDFW 2019) and the California Native Plant Society (CNPS) Online Inventory of Rare and Endangered Plants (CNPS 2019) were conducted to obtain comprehensive information regarding state and federally listed species as well as other special-status species considered to have potential to occur within a 5-mile radius of the project site. For CNPS query purposes, a 4-quadrangle search area centered on the project site was used.

In addition, regionally occurring sensitive biological resources and geological information related to the site were researched from the following sources:

- U.S. Fish and Wildlife (USFWS) Critical Habitat Portal (USFWS 2019a)
- USFWS Information, Planning, and Conservation System (USFWS 2019b)
- USFWS National Wetland Inventory (NWI) Mapper (USFWS 2019c)
- Natural Resources Conservation Service (NRCS) Web Soil Survey (NRCS 2019)

Field Survey

A field reconnaissance survey was conducted by Rincon Biologist Amy Leigh Trost on July 15, 2019, to document the existing site conditions and to evaluate the potential for presence of sensitive biological resources including sensitive plant and animal species, sensitive plant communities, potentially jurisdictional waters of the U.S. and wetlands, and habitat for federally and state protected species. Weather conditions during the survey included temperatures of 85 to 93 degrees Fahrenheit, with calm winds up to three miles per hour, and clear skies with good visibility. The survey was conducted on foot and by remote observation with 10x42 binoculars. All biological resources encountered within the project site were recorded.

The habitat requirements for each regionally occurring special-status species were assessed and compared to the type and quality of the habitats observed within the project site during the site visit. The survey was conducted to make an initial determination regarding the presence or absence of terrestrial biological resources including plants, birds and wildlife.

Based on the results of the site visit, literature review, and species known to occur regionally, Rincon assessed the potential for the proposed project to impact special-status species within the project site. The potential presence of special-status species is based on the site visit and literature review, and is intended to assess habitat suitability within the project area only. Definitive surveys to confirm the presence or absence of special-status species were not performed and are not included within this analysis. The findings and opinions conveyed in this report are based exclusively on the methodology described above.

Existing Conditions

Soils

The project site is located in a predominantly flat area with elevations ranging from 222 to 272 feet above mean sea level. The project site contains only one soil type: Mocho Loam, 0 to 2 percent slopes (NRCS 2019). This soil type is common in areas with irrigated crops and citrus as well as urban development.

All on-site soils appear to have been subject to varying degrees of topsoil removal through grading and excavation. The Fullerton Arboretum, located in the northeastern corner of the project site, has various soils which have been brought in to maintain the artificial habitats on site.

Vegetation

Two vegetation communities/land use types occur within the project site: Landscaped and Developed.

Landscaped

The Fullerton Arboretum occurs in the northeast corner of the project site. The arboretum covers approximately 26 acres of the CSUF campus. It is divided into a desert collection, Mediterranean collection, and woodland collection. The southwest portion of the arboretum is comprised of a fruit tree orchard, vegetable garden, and compost piles. Species within the arboretum include both native and non-native plant species. In addition, areas of landscaping with ornamental vegetation and trees are scattered throughout the remaining project site. A sports complex with maintained fields is present in the north central portion of the project site.

Developed

Developed land includes areas that have been constructed upon or otherwise physically altered to an extent that native vegetation is no longer supported. It is characterized by permanent or semi-permanent structures, pavement or hardscape, and landscaped areas that often require irrigation (Oberbauer et al. 2008). For the purpose of this report, the landscaped land cover type has been separated into its own category.

The majority of the project site includes buildings, asphalt roadways and parking lots, and power and telephone poles.

Wildlife

The project site provides habitat for wildlife species, mainly nesting birds, primarily within the landscaped portion of the project site. Avian species observed on site during the field reconnaissance survey are included in Table 1. Other wildlife species observed on site include California ground squirrel (*Otospermophilus beecheyi*), eastern fox squirrel (*Sciurus niger*), desert cottontail (*Sylvilagus audubonii*), and western fence-lizard (*Sceloporus occidentalis*).

Table 1 Avian Species Observed During July 15, 2019 Reconnaissance Survey

Scientific Name	Common Name
Anas platyrhynchos	mallard
Ardea alba	great egret
Calypte anna	Anna's hummingbird
Corvus brachyrhynchos	American crow
Corvus corax	common raven
Haemorhous mexicanus	house finch
Passer domesticus	house sparrow
Psaltriparus minimus	bushtit
Sayornis nigricans	black phoebe
Streptopelia decaocto	Eurasian collared-dove
Zenaida macroura	mourning dove

Nesting Birds and Roosting Bats

Established ornamental trees and shrubs, buildings, and power and telephone poles on the project site could provide suitable nesting habitat for common nesting birds protected under the CFGC Section 3503 and the MBTA.

Sensitive Biological Resources and Impact Analysis

Special-Status Species

Special-status species are those plants and animals listed, proposed for listing, or candidates for listing as Threatened or Endangered by the USFWS under the Federal ESA; those considered "Species of Concern" by the USFWS; those listed or candidates for listing as Rare, Threatened, or Endangered by the CDFW under the CESA; animals designated as "Fully Protected" by the CFGC; animals listed as "Species

of Special Concern" (SSC) by the CDFW; CDFW Special Plants, specifically those with California Rare Plant Ranks (CRPR) of 1A, 1B, and 2 in the CNPS's Inventory of Rare and Endangered Vascular Plants of California (2019).

Local, state, and federal agencies regulate special-status species and may require an assessment of their presence or potential presence to be conducted on site prior to the approval of proposed development on a property. This section discusses sensitive biological resources observed on the project site and evaluates the potential for the project site to support other sensitive biological resources. A list of special-status plant and animal species with potential to occur onsite was developed based on a review of a 5-mile search of the CNDDB (CDFW 2019) and a 4-quad search of the CNPS's online Inventory of Rare and Endangered Vascular Plants of California (CNPS 2019) and can be found in Attachment A.

Pursuant to Appendix G of the CEQA Guidelines, the proposed project would have a significant effect on biological resources if it would:

a) *Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the CDFW or USFWS.*

The CNDDB/CNPS query results include 9 special-status plant species within five miles of the project site. Special-status plant species typically have specialized habitat requirements, including plant community types, soils, elevational ranges. Special-status plant species typically have specialized habitat requirements, including plant community types, soils, elevational ranges. No natural native habitat exists within the project site for any of these plant species. All 9 species are classified as having no potential to occur on site (Attachment A). No special-status plant species were observed during the site reconnaissance survey.

The CNDDB query results include 18 special-status wildlife species within five miles of the project site. The potential for special-status wildlife species to occur on the site was assessed based on known distribution, habitat requirements, and existing site conditions. No special-status wildlife species were determined to have potential to occur on site (Attachment A) and, similarly, none were detected within or immediately surrounding the project site during the site reconnaissance survey. The lack of potential for special-status wildlife species occurrence is based on low habitat quality in developed areas of the project, lack of native vegetation, isolation from other suitable habitat due to developed land uses surrounding the site, and high levels of human disturbance.

The project would not have any substantial adverse effect on any candidate, sensitive, or special-status species in local or regional plans, policies, or regulations, or by CDFW or USFWS.

Sensitive Plant Communities

Pursuant to Appendix G of the CEQA Guidelines, the proposed project would have a significant effect on biological resources if it would:

b) *Have a substantial adverse impact on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations or by the CDFW or USFWS.*

Three sensitive vegetation communities were documented within 5 miles of the project site: California walnut woodland, Southern California Arroyo Chub/Santa Ana Sucker Stream, and Southern Willow Scrub. The only habitat present on the project site is landscaped and developed. Therefore, the project would not have any substantial adverse effect on any native riparian habitat or sensitive vegetation communities.

Jurisdictional Wetlands and Waterways

Pursuant to Appendix G of the CEQA Guidelines, the proposed project would have a significant effect on biological resources if it would:

c) *Have a substantial adverse effect on state or federally protected wetlands (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means.*

Two ponds are located within the Fullerton Arboretum. The biologist confirmed with the arboretum director that the ponds are artificial, contain circulated water and do not connect to any other water features. The nearest natural feature is Fullerton Creek, which is located approximately 80 feet from the northwest corner of the project site under the intersection of East Yorba Linda Boulevard and North State College Boulevard. Proposed direct impacts would be approximately 625 feet from the southern pond. Given the distance from construction no direct or indirect impacts would occur.

Wildlife Movement

Pursuant to Appendix G of the CEQA Guidelines, the proposed project would have a significant effect on biological resources if it would:

d) *Interfere substantially with the movement of any resident or migratory fish or wildlife species or with established resident or migratory wildlife corridors or impede the use of wildlife nursery sites.*

Wildlife corridors are generally defined as connections between habitat patches that allow for physical and genetic exchange between otherwise isolated animal populations. Such linkages may serve a local purpose, such as between foraging and denning areas, or they may be regional in nature, allowing movement across the landscape. Some habitat linkages may serve as migration corridors, wherein animals periodically move away from an area and then subsequently return. Examples of barriers or impediments to movement include housing and other urban development, roads, fencing, unsuitable habitat, or open areas with little vegetative cover. Regional and local wildlife movements are expected to be concentrated near topographic features that allow convenient passage, including roads, drainages, and ridgelines.

The project site is encompassed by developed industrial and residential properties and established transportation corridors. The project site is located adjacent to the Fullerton Creek; however, this area is not designated as an Essential Connectivity Area or Natural Landscape block as identified in available studies, such as the *California Essential Habitat Connectivity Project: A Strategy for Conserving a Connected California* (Spencer *et al.* 2010). The project site has limited value or benefit to wildlife movement in the area given that it is bounded by urban and residential developments. The San Gabriel Mountains located approximately 18 miles north of the project site serve as the closest essential connectivity area. A natural landscape block is located approximately 3 miles northeast of the project site in Chino Hills. Given the distance to these areas, the site does not serve as a migratory wildlife corridor and the proposed project would not interfere substantially with the movement of any native wildlife species.

Local Policies and Ordinances

Pursuant to Appendix G of the CEQA Guidelines, the proposed project would have a significant effect on biological resources if it would:

e) Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance.

The City of Fullerton Municipal Code Section 09.06 states that the City has jurisdiction over planning, planting, maintenance and removal of all trees and other landscape material within the City's right-of-way (ROW; Fullerton 1995). Furthermore, tree trimming and removal of any City-owned street tree must be conducted by the City's contractor, West Coast Arborists, following a request to the Public Works department (Fullerton 2019). If trees within the City's ROW are proposed to be altered in any way as part of this project, a service request shall be submitted to the City of Fullerton Landscape Division. Therefore, the proposed project would not conflict with any local policies or ordinances.

Adopted or Approved Plans

Pursuant to Appendix G of the CEQA Guidelines, the proposed project would have a significant effect on biological resources if it would:

f) Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Conservation Community Plan, or other approved local, regional, or state habitat conservation plan.

The project site is within the City of Fullerton and, therefore, falls under The Fullerton Plan Master Element D: The Fullerton Natural Environment (Fullerton 2012). The plan provides guidelines for water, air quality and climate change, integrated waste management, open space and natural resources, and natural hazards. The proposed project would not have any impacts to biological resources including native habitats or waterways. The project site is not subject to any Habitat Conservation Plan, Natural Conservation Community Plan, or additional local, regional, or state habitat conservation plan. Therefore, the proposed project would not conflict with any adopted or approved plans.

Recommended Actions

Pre-construction Nesting Bird Surveys

Migratory or other common nesting birds, while not designated as special-status species, are protected by the CFGC and MBTA, and may nest within ornamental trees, structures, and within the arboretum vegetation. Therefore, construction activities within the arboretum have the potential to directly (i.e., destroy a nest) or indirectly (i.e., construction noise, dust, and other human disturbances that may cause a nest to fail) impact nesting birds protected under the CFGC and MBTA. The following measure is recommended to maintain compliance with the CFGC Section 3503 and the MBTA with respect to nesting birds:

- If initial construction and/or vegetation clearing activities occur during the bird nesting season (generally February 1 through August 31, but variable based on seasonal and annual climatic conditions), a nesting bird survey should be performed by a qualified biologist, no more than seven days prior to start of such activities to determine the presence/absence, location, and status of any active nests on site or within 100 feet of any active construction sites. The findings of the survey should be summarized in a report to be submitted to CSUF prior to undertaking construction activities at the site.
- If nesting birds are found on site, an appropriate construction buffer (e.g., 300 feet for nesting raptors or 50-100 feet for common species) as determined by a qualified biologist should be implemented around the active nests and demarcated with fencing or flagging. Nests should be monitored at a minimum of once per week by the qualified biologist until it has been determined

that the nest is no longer being used by either the young or adults. No ground disturbance should occur within this buffer until the qualified biologist confirms that the breeding/nesting is completed and all the young have fledged. If project activities must occur within the buffer, they should only be conducted at the discretion, and under the supervision, of the qualified biologist.

- If no nesting birds are observed during pre-construction surveys, no further actions would be necessary.

Limitations

This document was prepared for use solely and exclusively by CSUF, who may use it to provide information to satisfy CEQA requirements. No other use or disclosure is intended or authorized by Rincon, nor shall this report be relied upon or transferred to any other party without the express written consent of Rincon. This work has been performed in accordance with good commercial, customary, and generally accepted biological investigation practices conducted at this time and in this geographic area. The findings and opinions conveyed in this report are based on a habitat suitability analysis level only, and did not include definitive surveys for the presence or absence of the special-status species that may be present. Definitive surveys for special-status wildlife and plant species generally require specific survey protocols with extensive field survey time to be conducted only at certain times of the year. It is understood that Rincon is to be held harmless for any inverse condemnation or devaluation of said property that may result if Rincon's report or information generated during our performance of services is used for other purposes.

Thank you for the opportunity to support your environmental analysis needs for this project. Please contact us if you have any questions.

Sincerely,
Rincon Consultants, Inc.

Amy Leigh Trost
Associate Biologist

Steven J. Hongola
Principal/Senior Ecologist

Attachments

Attachment A CNDDB/CNPS Query Results and Occurrence Potentials

Attachment B Site Survey Photographs

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Attachment A

CNDDB/CNPS Query Results and Occurrence Potentials

Scientific Name Common Name	Status Fed/State ESA CRPR or CDFW	Habitat Requirements	Potential to Occur in Project Area	Habitat Suitability/ Observations
Plants and Lichens				
Abronia villosa var. *aurita* chaparral sand-verbena	None/None 1B.1	Chaparral, coastal scrub, desert dunes. Sandy areas. -60-1570 m. annual herb. Blooms (Jan)Mar-Sep	None	No native habitats occur on the project site.
Atriplex parishii *Parish's brittlescale*	None/None 1B.1	Vernal pools, chenopod scrub, playas. Usually on drying alkali flats with fine soils. 5-1420 m. annual herb. Blooms Jun-Oct	None	No native habitats occur on the project site.
Atriplex serenana var. *davidsonii* Davidson's saltscale	None/None 1B.2	Coastal bluff scrub, coastal scrub. Alkaline soil. 0-460 m. annual herb. Blooms Apr-Oct	None	No native habitats occur on the project site.
Calochortus weedii var. *intermedius* intermediate mariposa-lily	None/None 1B.2	Coastal scrub, chaparral, valley and foothill grassland. Dry, rocky open slopes and rock outcrops. 60-1575 m. perennial bulbiferous herb. Blooms May-Jul	None	No native habitats occur on the project site.
Centromadia parryi ssp. *australis* southern tarplant	None/None 1B.1	Marshes and swamps (margins), valley and foothill grassland, vernal pools. Often in disturbed sites near the coast at marsh edges; also in alkaline soils sometimes with saltgrass. Sometimes on vernal pool margins. 0-975 m. annual herb. Blooms May-Nov	None	No native habitats occur on the project site.
Chorizanthe parryi var. *fernandina* San Fernando Valley spineflower	Proposed FT/SE 1B.1	Coastal scrub, valley and foothill grassland. Sandy soils. 15-1015 m. annual herb. Blooms Apr-Jul	None	No native habitats occur on the project site.
Dudleya multicaulis many-stemmed dudleya	None/None 1B.2	Chaparral, coastal scrub, valley and foothill grassland. In heavy, often clayey soils or grassy slopes. 15-790 m. perennial herb. Blooms Apr-Jul	None	No native habitats occur on the project site.
Lasthenia glabrata ssp. *coulteri* Coulter's goldfields	None/None 1B.1	Coastal salt marshes, playas, vernal pools. Usually found on alkaline soils in playas, sinks, and grasslands. 1-1375 m. annual herb. Blooms Feb-Jun	None	No native habitats occur on the project site.
Symphyotrichum defoliatum San Bernardino aster	None/None 1B.2	Meadows and seeps, cismontane woodland, coastal scrub, lower montane coniferous forest, marshes and swamps, valley and foothill grassland. Vernally mesic grassland or near ditches, streams and springs; disturbed areas. 2-2040 m. perennial rhizomatous herb. Blooms Jul-Nov	None	No native habitats occur on the project site.
Invertebrates				
Euphydryas editha quino Quino checkerspot butterfly	FE/None	Sunny openings within chaparral & coastal sage shrublands in parts of Riverside & San Diego counties. Hills and mesas near the coast. Need high densities of food plants Plantago erecta, P. insularis, and Castilleja exserta	None	No suitable chaparral or coastal sage shrub habitats occur on the project site.

Scientific Name Common Name	Status Fed/State ESA CRPR or CDFW	Habitat Requirements	Potential to Occur in Project Area	Habitat Suitability/ Observations
Fish				
Catostomus santaanae Santa Ana sucker	FT/None	Endemic to Los Angeles Basin south coastal streams. Habitat generalists, but prefer sand-rubble-boulder bottoms, cool, clear water, and algae.	None	No suitable streams occur on the project site.
Oncorhynchus mykiss irideus pop. 10 steelhead - southern California DPS	FT/None	Federal listing refers to populations from Santa Maria River south to southern extent of range (San Mateo Creek in San Diego County). Southern steelhead likely have greater physiological tolerances to warmer water and more variable conditions.	None	No suitable streams occur on the project site.
Reptiles				
Anniella stebbinsi southern California legless lizard	None/None SSC	Generally south of the Transverse Range, extending to northwestern Baja California. Occurs in sandy or loose loamy soils under sparse vegetation. Disjunct populations in the Tehachapi and Piute Mountains in Kern County. Variety of habitats; generally in moist, loose soil. They prefer soils with a high moisture content.	None	No suitable habitats with sandy or loose, loamy soils occur on the project site.
Emys marmorata western pond turtle	None/None SSC	A thoroughly aquatic turtle of ponds, marshes, rivers, streams and irrigation ditches, usually with aquatic vegetation, below 6000 ft elevation. Needs basking sites and suitable (sandy banks or grassy open fields) upland habitat up to 0.5 km from water for egg-laying.	None	Ponds on site are artificial and do not connect to native habitat.
Phrynosoma blainvillii coast horned lizard	None/None SSC	Frequents a wide variety of habitats, most common in lowlands along sandy washes with scattered low bushes. Open areas for sunning, bushes for cover, patches of loose soil for burial, and abundant supply of ants and other insects.	None	No loose sandy soils occur on site. No native habitat occurs on the project site.
Birds				
Buteo swainsoni Swainson's hawk	None/ST	Breeds in grasslands with scattered trees, juniper-sage flats, riparian areas, savannahs, & agricultural or ranch lands with groves or lines of trees. Requires adjacent suitable foraging areas such as grasslands, or alfalfa or grain fields supporting rodent populations.	None	Potentially suitable tall trees for nesting occur on the project site but no suitable foraging areas occur in the area. The project site is regularly disturbed by students, visitors, and landscaping staff.

Scientific Name Common Name	Status Fed/State ESA CRPR or CDFW	Habitat Requirements	Potential to Occur in Project Area	Habitat Suitability/ Observations
Campylorhynchus brunneicapillus sandiegensis coastal cactus wren	None/None SSC	Southern California coastal sage scrub. Wrens require tall opuntia cactus for nesting and roosting.	Low	Potentially suitable cactus species occur within the Fullerton Arboretum; however, the project site is regularly disturbed by students, visitors, and landscaping staff.
Coccyzus americanus occidentalis western yellow-billed cuckoo	FT/SE	Riparian forest nester, along the broad, lower flood-bottoms of larger river systems. Nests in riparian jungles of willow, often mixed with cottonwoods, with lower story of blackberry, nettles, or wild grape.	None	No suitable riparian forests with willows occur on the project site.
Falco peregrinus anatum American peregrine falcon	D/D SFP	Near wetlands, lakes, rivers, or other water; on cliffs, banks, dunes, mounds; also, human-made structures. Nest consists of a scrape or a depression or ledge in an open site.	Low	Suitable human-made structures for nesting and the ponds provide foraging habitat; however, the project site is regularly disturbed by students, visitors, and landscaping staff.
Icteria virens yellow-breasted chat	None/None SSC	Summer resident; inhabits riparian thickets of willow and other brushy tangles near watercourses. Nests in low, dense riparian, consisting of willow, blackberry, wild grape; forages and nests within 10 ft of ground.	Low	Potentially suitable riparian habitat occur on site; however, the project site is regularly disturbed by students, visitors, and landscaping staff.
Laterallus jamaicensis coturniculus California black rail	None/ST SFP	Inhabits freshwater marshes, wet meadows and shallow margins of saltwater marshes bordering larger bays. Needs water depths of about 1 inch that do not fluctuate during the year and dense vegetation for nesting habitat.	None	No suitable marshes or wet meadows occur on the project site.
Polioptila californica californica coastal California gnatcatcher	FT/None SSC	Obligate, permanent resident of coastal sage scrub below 2500 ft in Southern California. Low, coastal sage scrub in arid washes, on mesas and slopes. Not all areas classified as coastal sage scrub are occupied.	None	No suitable coastal sage scrub occurs on the project site.
Setophaga petechia yellow warbler	None/None SSC	Riparian plant associations in close proximity to water. Also nests in montane shrubbery in open conifer forests in Cascades and Sierra Nevada. Frequently found nesting and foraging in willow shrubs and thickets, and in other riparian plants including cottonwoods, sycamores, ash, and alders.	Low	Potentially suitable riparian habitat occur on site; however, the project site is regularly disturbed by students, visitors, and landscaping staff.

Scientific Name Common Name	Status Fed/State ESA CRPR or CDFW	Habitat Requirements	Potential to Occur in Project Area	Habitat Suitability/ Observations
Sternula antillarum browni California least tern	FE/SE SFP	Nests along the coast from San Francisco Bay south to northern Baja California. Colonial breeder on bare or sparsely vegetated, flat substrates: sand beaches, alkali flats, land fills, or paved areas.	None	No suitable beaches, alkali flats, or other suitable habitat occurs on the project site.
Vireo bellii pusillus *least Bell's vireo*	FE/SE	Summer resident of Southern California in low riparian in vicinity of water or in dry river bottoms; below 2000 ft. Nests placed along margins of bushes or on twigs projecting into pathways, usually willow, Baccharis, mesquite.	Low	Potentially suitable riparian habitat occur on site; however, the project site is regularly disturbed by students, visitors, and landscaping staff.
Mammals				
Eumops perotis californicus western mastiff bat	None/None SSC	Many open, semi-arid to arid habitats, including conifer & deciduous woodlands, coastal scrub, grasslands, chaparral, etc. Roosts in crevices in cliff faces, high buildings, trees and tunnels.	Low	High buildings and trees for roosting occur on the project site; however, project site is regularly disturbed by students, visitors, and landscaping staff.
Nyctinomops femorosaccus pocketed free-tailed bat	None/None SSC	Variety of arid areas in Southern California; pine-juniper woodlands, desert scrub, palm oasis, desert wash, desert riparian, etc. Rocky areas with high cliffs.	None	No suitable rocky areas with high cliffs occur on the project site.
Sensitive Natural Communities				
California Walnut Woodland California Walnut Woodland	None/None		None	No California walnut woodland occurs on the project site.
Southern California Arroyo Chub/Santa Ana Sucker Stream Southern California Arroyo Chub/Santa Ana Sucker Stream	None/None		None	No Southern California arroyo chub/Santa Ana sucker stream occurs on the project site.
Southern Willow Scrub Southern Willow Scrub	None/None		None	No southern willow scrub occurs on the project site.

Regional Vicinity refers to within a 5-mile search radius of site.

FE = Federally Endangered FT = Federally Threatened FC = Federal Candidate Species

SE = State Endangered ST = State Threatened SC = State Candidate SR = State Rare

SS=State Sensitive SSC = CDFW Species of Special Concern SFP = State Fully Protected

D=Delisted

CRPR (CNPS California Rare Plant Rank)

1A=Presumed Extinct in California

1B=Rare, Threatened, or Endangered in California and elsewhere

2A=Plants presumed extirpated in California, but more common elsewhere

2B=Plants Rare, Threatened, or Endangered in California, but more common elsewhere

CRPR Threat Code Extension

.1=Seriously endangered in California (over 80% of occurrences threatened / high degree and immediacy of threat)

.2=Fairly endangered in California (20-80% occurrences threatened)

.3=Not very endangered in California (<20% of occurrences threatened)

Attachment B

Site Survey Photographs

Photograph 1. Area within the Fullerton Arboretum, facing south. Depicts walking trail with maintained vegetation on either side.

Photograph 2. Vegetable garden with the Fullerton Arboretum, facing southeast. Cobb residence hall visible in background.

Photograph 3. Compost pile in the southeast corner of the Fullerton Arboretum, facing southeast. Student parking visible in background.

Photograph 4. Artificial pond within the Fullerton Arboretum, facing southwest.

Photograph 5. Parking lot on CSUF campus with landscaped trees, facing southwest.

Photograph 6. Student Health and Counseling Center with landscaping, facing northwest.

Photograph 7. Landscaping outside of the Kinesiology and Health Science building, facing west.

Photograph 8. Southern end of the sports complex, facing north.

Appendix O

California Native Plant Society Query

Scientific Name	Common Name	Family	Lifeform	CRPR	GRank	SRank	CESA	FESA	Blooming Period	Habitat	Micro Habitat	Elevation Low	Elevation Low	Elevation High (m)	Elevation High (ft)	CA Endemic	States	Counties	Quads	EO Total	EO A	EO B	EO C	EO D	EO X	EO U	EO Historical	EO Recent	EO Extant	EO Possibly Extirpated	EO Extirpated	Notes	Full Scientific Name	Synonyms	Element Code	USDA PLANTS Symbo	Date Added	Last Update
Abronia villosa var. aurita	chaparral sand-verbena	Nyctaginaceae	annual herb	1B.1	G5T2?	S2	None	None	(Jan)Mar-Sep	Chaparral, Coastal scrub, Desert dunes	sandy	75	245	1600	5250	F	AZ, BA	IMP, LAX, ORA, RIV, SBD, SDG, VEN	Calexico (3211564), Seeley (3211576), Superstition Mtn. (3211587), Agua Caliente Springs (3211683), Iris (3311524), Durmid (3311547), Salton (3311548), Mortmar (3311558), Desert Center (3311564), Cottonwood Basin (3311568), East of Victory Pass (3311573), Earthquake Valley (3311614), Tubb Canyon (3311624), Ranchita (3311625), Collins Valley (3311644), Bucksnort Mtn. (3311645), Aguanga (3311647), Vail Lake (3311648), Valerie (3311652), Butterfly Peak (3311655), Anza (3311656), Sage (3311658), Thermal Canyon (3311661), Indio (3311662), La Quinta (3311663), Palm View Peak (3311665), Idyllwild (3311666), Blackburn Canyon (3311667), Hemet (3311668), Myoma (3311673), Cathedral City (3311674), Palm Springs (3311675), Lake Fulmor (3311677), San Jacinto (3311678), East Deception Canyon (3311683), Desert Hot Springs (3311685), White Water (3311686), Cabazon (3311687), Beaumont (3311688), Morro Hill (3311733), Pechanga (3311741), Temecula (3311742), Fallbrook (3311743), Bachelor Mtn. (3311751), Murrieta (3311752), Winchester (3311761), Alberhill (3311764), Newport Beach (3311768), Lakeview (3311771), Perris (3311772), Lake Mathews (3311774), Corona South (3311775), Black Star Canyon (3311776), Orange (3311777), Anaheim (3311778), Riverside East (3311783), Corona North (3311785), Vidal (3411415), Lovejoy Buttes (3411757), Barstow (3411781), Hinkley (3411782), Oxnard (3411922)	98	0	7	9	8	7	67	37	61	91	1	6	Threatened by non-native plants, alteration of fire regimes, road maintenance, flood control activities, vehicles, and development. See Bulletin of the Torrey Botanical Club 32(10):537 (1905) for original description, Flora of California 1:455 (1914) by W.L. Jepson for revised nomenclature, and Brittonia 27(4):340 (1995) for taxonomic treatment.	Abronia villosa Wats. var. aurita (Abrams) Jeps.		PDNYC010P1	ABVIA	1/1/2001	9/13/2011
Atriplex parishii	Parish's brittlescale	Chenopodiaceae	annual herb	1B.1	G1G2	S1	None	None	Jun-Oct	Chenopod scrub, Playas, Vernal pools	alkaline	25	80	1900	6235	F	BA	LAX, ORA, RIV, SBD, SDG	San Pasqual (3311618), Warner Springs (3311636), Butterfly Peak (3311655), Hemet (3311668), Palm Springs (3311675), Rancho Santa Fe (3311712), Laguna Beach (3311757), Winchester (3311761), Newport Beach (3311768), Perris (3311772), Anaheim (3311778), Seal Beach (3311861), Long Beach (3311872), Redondo Beach (3311874), Big Bear City (3411637), Beverly Hills (3411814), Burbank (3411823)	15	1	1	0	0	3	10	12	3	12	2	1	Threatened by development, agricultural conversion, and grazing. Taxonomic reevaluation indicates plant is only from southern CA, but is closely related to more northern A. depressa and A. minuscula. See Proceedings of the American Academy of Arts and Sciences 17:377 (1882) for original description.	Atriplex parishii Wats.		PDCHE041D0	ATPA2	1/1/1988	4/20/2017
Atriplex serenana var. davidsonii	Davidson's saltscale	Chenopodiaceae	annual herb	1B.2	G5T1	S1	None	None	Apr-Oct	Coastal bluff scrub, Coastal scrub	alkaline	10	30	200	655	F	BA	LAX, ORA, RIV, SBA, SCT, SCZ, SDG, SLO, SRO, VEN	Laguna Beach (3311757), Winchester (3311761), Tustin (3311767), Newport Beach (3311768), Lakeview (3311771), Perris (3311772), El Casco (3311781), Yorba Linda (3311787), Santa Catalina East (3311833), Seal Beach (3311861), San Pedro (3311863), Santa Cruz Island C (3311985), Santa Rosa Island South (3312071), Los Angeles (3411812), Hollywood (3411813), Malibu Beach (3411816), Oxnard (3411922), Ojai (3411942), Santa Barbara (3411946), Goleta (3411947), Gaviota (3412042), Zaca Creek (3412062), Guadalupe (3412085)	27	0	2	1	1	4	19	17	10	23	4	0	Is plant extirpated from LAX Co.? Known from SCZ Isl. From a single collection in 1930. Need quads for SDG Co. and SCT and SRO islands. See North American Flora 21:57 (1916) for original description.	Atriplex serenana A. Nels. var. davidsonii (Standl.) Munz		PDCHE041T1	ATSED	1/1/1994	1/3/2014
Calochortus catalinae	Catalina mariposa lily	Liliaceae	perennial bulbiferous herb	4.2	G3G4	S3S4	None	None	(Feb)Mar-Jun	Chaparral, Cismontane woodland, Coastal scrub, Valley and foothill grassland		15	45	700	2295	T		LAX, ORA, SBA, SBD, SCT, SCZ, SDG, SRO, VEN	Wildomar (3311753), Canada Gobernadora (3311755), San Juan Capistrano (3311756), Laguna Beach (3311757), Santiago Peak (3311765), El Toro (3311766), Tustin (3311767), Corona South (3311775), Black Star Canyon (3311776), Orange (3311777), Prado Dam (3311786), Yorba Linda (3311787), La Habra (3311788), Santa Catalina East (3311833), Santa Catalina South (3311834), Santa Catalina North (3311844), Santa Catalina West (3311845), San Pedro (3311863), Torrance (3311873), Redondo Beach (3311874), Santa Cruz Island C (3311985), Santa Cruz Island B (3311986), Santa Cruz Island A (3311987), Santa Rosa Island South (3312071), Santa Rosa Island North (3312081), Guasti (3411715), Ontario (3411716), San Dimas (3411717), San Bernardino North (3411723), Glendora (3411727), El Monte (3411811), Los Angeles (3411812), Hollywood (3411813), Beverly Hills (3411814), Topanga (3411815), Malibu Beach (3411816), Point Dume (3411817), Triunfo Pass (3411818), Mt. Wilson (3411821), Burbank (3411823), Van Nuys (3411824), Canoga Park (3411825), Calabasas (3411826), Thousand Oaks (3411827), Newbury Park (3411828), Sunland (3411833), Santa Susana (3411836), Simi (3411837), Newhall (3411845), Fillmore (3411848), Sleepy Valley (3411853), Point Mugu (3411911), Camarillo (3411921), Santa Paula (3411931), Saticoy (3411932), Ventura (3411933), Santa Paula Peak (3411941), Ojai (3411942), Matilija (3411943), White Ledge Peak (3411944), Carpinteria (3411945), Santa Barbara (3411946), Goleta (3411947), Wheeler Springs (3411953), Little Pine Mtn. (3411956), San Marcos Pass (3411957), Rancho Nuevo Creek (3411964), Figueroa Mtn. (3411968), Sacate (3412043), Santa Ynez (3412051), Solvang (3412052), Los Olivos (3412061), Zaca Lake (3412071)													Threatened by development.	Calochortus catalinae Wats.		PMLIL0D080	CACA5	1/1/1974	3/15/2010

Calochortus plummerae	Plummer's mariposa lily	Liliaceae	perennial bulbiferous herb	4.2	G4	S4	None	None	May-Jul	Chaparral, Cismontane woodland, Coastal scrub, Lower montane coniferous forest, Valley and foothill grassland	granitic, rocky	100	325	1700	5575	T		LAX, ORA, RIV, SBD, VEN	Idyllwild (3311666), Blackburn Canyon (3311667), Lake Fulmor (3311677), San Jacinto (3311678), Cabazon (3311687), Beaumont (3311688), Bachelor Mtn. (3311751), Sitton Peak (3311754), Lake Elsinore (3311763), Corona South (3311775), Black Star Canyon (3311776), El Casco (3311781), Sunnymead (3311782), Riverside East (3311783), Riverside West (3311784), La Habra (3311788), Whittier (3311881), San Gorgonio Mtn. (3411617), Forest Falls (3411618), Moonridge (3411627), Big Bear Lake (3411628), Big Bear City (3411637), Yucaipa (3411711), Redlands (3411712), Fontana (3411714), Ontario (3411716), San Dimas (3411717), Baldwin Park (3411718), Keller Peak (3411721), Harrison Mtn. (3411722), San Bernardino North (3411723), Devore (3411724), Cucamonga Peak (3411725), Mt. Baldy (3411726), Glendora (3411727), Azusa (3411728), Silverwood Lake (3411733), Cajon (3411734), Telegraph Peak (3411735), Mount San Antonio (3411736), Crystal Lake (3411737), Fifteenmile Valley (3411741), El Monte (3411811), Los Angeles (3411812), Hollywood (3411813), Beverly Hills (3411814), Topanga (3411815), Malibu Beach (3411816), Point Dume (3411817), Triunfo Pass (3411818), Mt. Wilson (3411821), Pasadena (3411822), Burbank (3411823), Van Nuys (3411824), Canoga Park (3411825), Calabasas (3411826), Thousand Oaks (3411827), Newbury Park (3411828), Chilao Flat (3411831), Condor Peak (3411832), Sunland (3411833), San Fernando (3411834), Oat Mountain (3411835), Santa Susana (3411836), Simi (3411837), Moorpark (3411838), Agua Dulce (3411843), Newhall (3411845), Camarillo (3411921), Ojai (3411942)	230	4	37	25	12	8	144	70	160	222	7	1	Previously on List 1B.2; more common than originally known. Threatened by development, fire suppression, foot traffic, mining, powerline construction, and recreational activities. Possibly threatened by vegetation clearing, collecting, road maintenance, and non-native plants. Less common at higher elevations. Hybridizes with C. weedii var. intermedius. See Pittonia 2:70 (1890) for original description, and Annals of the Missouri Botanical Garden 27:515 (1940) for taxonomic treatment.	Calochortus plummerae Greene		PMLIL0D150	CAPL2	1/1/1994	10/2/2017
Calochortus weedii var. intermedius	intermediate mariposa lily	Liliaceae	perennial bulbiferous herb	1B.2	G3G4T2	S2	None	None	May-Jul	Chaparral, Coastal scrub, Valley and foothill grassland	rocky, calcareous	105	340	855	2805	T		LAX, ORA, RIV, SBD	Vail Lake (3311648), San Clemente (3311745), Dana Point (3311746), Bachelor Mtn. (3311751), Murrieta (3311752), Canada Gobernadora (3311755), San Juan Capistrano (3311756), Laguna Beach (3311757), Winchester (3311761), Alberhill (3311764), Santiago Peak (3311765), El Toro (3311766), Tustin (3311767), Corona South (3311775), Black Star Canyon (3311776), Orange (3311777), Prado Dam (3311786), Yorba Linda (3311787), La Habra (3311788), Whittier (3311881), San Dimas (3411717), Baldwin Park (3411718), Azusa (3411728), El Monte (3411811)	140	7	20	14	6	2	91	33	107	138	0	2	Threatened by development, non-native plants, road construction, and fuel modification. Potentially threatened by frequent wildfires and horticultural collecting. Intergrades with var. weedii; hybridizes with C. plummerae. See Annals of the Missouri Botanical Garden 27(4):519 (1940) for original description.	Calochortus weedii A.W. Wood var. intermedius Ownbey		PMLIL0D1J1	CAWEI	1/1/1994	3/15/2010
Camissoniopsis lewisii	Lewis' evening-primrose	Onagraceae	annual herb		3	G4	S4	None	None	Mar-May(Jun)	Coastal bluff scrub, Cismontane woodland, Coastal dunes, Coastal scrub, Valley and foothill grassland	sandy or clay	0	0	300	985	F	BA	LAX, ORA, SDG	Otay Mesa (3211658), Jamul Mountains (3211668), Alpine (3211677), San Vicente Reservoir (3211688), Imperial Beach (3211751), National City (3211761), Point Loma (3211762), La Jolla (3211772), Del Mar (3211782), Ramona (3311617), Rancho Santa Fe (3311712), San Luis Rey (3311723), Oceanside (3311724), Morro Hill (3311733), Fallbrook (3311743), El Toro (3311766), Tustin (3311767), Newport Beach (3311768), Black Star Canyon (3311776), Orange (3311777), Anaheim (3311778), Prado Dam (3311786), San Pedro (3311863), Inglewood (3311883), Venice (3311884), Hollywood (3411813), Beverly Hills (3411814), Point Dume (3411817), Burbank (3411823)														Move to List 4? Location, rarity, and endangerment information needed. Possibly threatened by erosion and recreational activities. Dried material difficult to identify; apparently other taxa are often misidentified as C. lewisii. See Contributions from the U.S. National Herbarium 37(5):275 (1969) for original description.	Camissoniopsis lewisii (P.H. Raven) W.L. Wagner & Hoch	Camissonia lewisii	PDONA030X0		1/1/1994	5/22/2013
Centromadia parryi ssp. australis	southern tarplant	Asteraceae	annual herb	1B.1	G3T2	S2	None	None	May-Nov	Marshes and swamps (margins), Valley and foothill grassland (vernally mesic), Vernal pools		0	0	480	1575	F	BA	LAX, ORA, SBA, SCT, SDG, VEN	Del Mar (3211782), Ramona (3311617), San Pasqual (3311618), Escondido (3311711), San Marcos (3311722), Morro Hill (3311733), Canada Gobernadora (3311755), Laguna Beach (3311757), Tustin (3311767), Newport Beach (3311768), Orange (3311777), Anaheim (3311778), Yorba Linda (3311787), Santa Catalina East (3311833), Seal Beach (3311861), Los Alamitos (3311871), Long Beach (3311872), Torrance (3311873), South Gate (3311882), Inglewood (3311883), Venice (3311884), Baldwin Park (3411718), El Monte (3411811), Hollywood (3411813), Beverly Hills (3411814), Pasadena (3411822), Van Nuys (3411824), Newbury Park (3411828), Sunland (3411833), Pitas Point (3411934), Goleta (3411947), Dos Pueblos Canyon (3411948)	94	3	17	11	4	10	49	49	45	84	4	6	Need confirmation of SCT lsl. occurrences. Many ORA Co. occurrences recently extirpated. Many historical occurrences also extirpated; need information. Population fragmentation a serious problem, and plant continues to be threatened by urbanization, vehicles, development, foot traffic, grazing, habitat disturbance, and competition from non-native plants. A synonym of Hemizonia parryi ssp. australis in TJM (1993). See Madroño 3(1):15 (1935) for original description, and Novon 9:462-	Centromadia parryi (Greene) Greene ssp. australis (Keck) B.G. Baldwin	Hemizonia parryi ssp. australis	PDAST4R0P4	CEPAA	1/1/1994	10/4/2013
Chorizanthe parryi var. fernandina	San Fernando Valley spineflower	Polygonaceae	annual herb	1B.1	G2T1	S1	CE	FC	Apr-Jul	Coastal scrub (sandy), Valley and foothill grassland		150	490	1220	4005	T		LAX, ORA, VEN	Black Star Canyon (3311776), Orange (3311777), Venice (3311884), Mt. Wilson (3411821), Burbank (3411823), Van Nuys (3411824), Calabasas (3411826), Sunland (3411833), San Fernando (3411834), Oat Mountain (3411835), Newhall (3411845), Acton (3411846), Val Verde (3411846), Acton (3411846), Val Verde (3411846), Lake Hughes (3411864)	21	1	2	9	0	9	0	9	12	12	9	0	Rediscovered in 1999. Most historical habitat is now heavily urbanized. Seriously threatened by development and non-native plants. See Botany of California 2:481 (1880) for original description, Phytologia 66(2):147-149 (1989) for taxonomic treatment, and Madrono 48(2):78 (2001) for rediscovery.	Chorizanthe parryi Wats. var. fernandina (Wats.) Jeps.		PDPGN040J1	CHPAF	1/1/1974	5/31/2017

Convolvulus simulans	small-flowered morning-glory	Convolvulaceae	annual herb	4.2	G4	S4	None	None	Mar-Jul	Chaparral (openings), Coastal scrub, Valley and foothill grassland	clay, serpentinite seeps	30	95	740	2430	F	BA	CCA, FRE, KRN, LAX, ORA, RIV, SBA, SBT, SCM, SCT, SCZ, SDG, SJQ, SLO, STA	Otay Mesa (3211658), Dulzura (3211667), Jamul Mountains (3211668), Alpine (3211677), El Cajon (3211678), San Vicente Reservoir (3211688), Imperial Beach (3211751), National City (3211761), La Mesa (3211771), La Jolla (3211772), Poway (3211781), Del Mar (3211782), San Clemente Island South (3211873), San Clemente Island Central (3211874), San Clemente Island North (3211885), San Pasqual (3311618), Vail Lake (3311648), Sage (3311658), Escondido (3311711), Rancho Santa Fe (3311712), Encinitas (3311713), San Marcos (3311722), San Luis Rey (3311723), Morro Hill (3311733), Las Pulgas Canyon (3311734), Fallbrook (3311743), San Clemente (3311745), Bachelor Mtn. (3311751), Murrieta (3311752), Wildomar (3311753), Canada Gobernadora (3311755), San Juan Capistrano (3311756), Romoland (3311762), Lake Elsinore (3311763), Alberhill (3311764), Santiago Peak (3311765), Tustin (3311767), Steele Peak (3311773), Lake Mathews (3311774), Prado Dam (3311786), La Habra (3311788), San Pedro (3311863), Redondo Beach (3311874), Santa Cruz Island A (3311987), Redlands (3411712), Hollywood (3411813), Burbank (3411823), Calabasas (3411826), Thousand Oaks (3411827), Newbury Park (3411828), Simi (3411837), Matilija (3411943), Carpinteria (3411945), Santa Barbara (3411946), Little Pine Mtn. (3411956), Los Olivos (3412061), Zaca Lake (3412071), Casmalia (3412075), Guadalupe (3412085), Point Sal (3412086), Tejon Ranch (3511816), Tejon Hills (3511817), Pine Mountain (3511857), Knob Hill (3511858), La Panza NE (3512041), Cholame (3512063), Estrella (3512065), Tent Hills (3512072), Success Dam (3611818), Lindsay (3611921), Wahtoke (3611964), Pine Flat Dam (3611973), Piedra (3611974), Tumey Hills (3612056), Panoche (3612057), Chounet Ranch (3612066), Pinalito Canyon (3612131), Greenfield (3612132), Merced (3712034), Crevison Peak (3712122), Solyo (3712153), Byron Hot Springs (3712176), Antioch South (3712187), Antioch North (3812117)																							Rare in southern CA. Threatened by development and vehicles. Possibly threatened by non-native plants. See Rhodora 33:76 (1931) for original description.	Convolvulus simulans Perry	PDCONO5060	COEQ	1/1/1994	5/24/2016
Deinandra paniculata	paniculate tarplant	Asteraceae	annual herb	4.2	G4	S4	None	None	(Mar)Apr-Nov(Dec)	Coastal scrub, Valley and foothill grassland, Vernal pools	usually vernally mesic, sometimes sandy	25	80	940	3085	F	BA	ORA, RIV, SBA, SBD, SDG, SLO	Tecate (3211656), Otay Mesa (3211658), Jamul Mountains (3211668), Imperial Beach (3211751), National City (3211761), Santa Ysabel (3311616), Palomar Observatory (3311637), Beauty Mountain (3311646), Aguanga (3311647), Vail Lake (3311648), Anza (3311656), Cahuilla Mtn. (3311657), Sage (3311658), Blackburn Canyon (3311667), Hemet (3311668), San Marcos (3311722), San Luis Rey (3311723), Bonsall (3311732), Las Pulgas Canyon (3311734), San Onofre Bluff (3311735), Pechanga (3311741), Temecula (3311742), Margarita Peak (3311744), San Clemente (3311745), Dana Point (3311746), Bachelor Mtn. (3311751), Murrieta (3311752), Wildomar (3311753), Sitton Peak (3311754), Canada Gobernadora (3311755), San Juan Capistrano (3311756), Laguna Beach (3311757), Winchester (3311761), Romoland (3311762), Lake Elsinore (3311763), Alberhill (3311764), Santiago Peak (3311765), El Toro (3311766), Lakeview (3311771), Perris (3311772), Steele Peak (3311773), Lake Mathews (3311774), Corona South (3311775), Orange (3311777), Sunnymead (3311782), Riverside East (3311783), Riverside West (3311784), Corona North (3311785), Prado Dam (3311786), Venice (3311884), Fontana (3411714), Guasti (3411715), Newhall (3411845), Piru (3411847), Santa Barbara (3411946), Lake Cachuma (3411958), Santa Ynez (3412051), Los Alamos (3412063), Lompoc (3412064), Surf (3412065), Foxen Canyon (3412072), Sisquoc (3412073), Orcutt (3412074), Casmalia (3412075), Guadalupe (3412085), Mettler (3511818), Coal Oil Canyon (3511911), Huasna Peak (3512013), Nipomo (3512014), Oceano (3512015), Tar Spring Ridge (3512024), Arroyo Grande NE (3512025), Pismo Beach (3512026), Pozo Summit (3512033), Santa Margarita Lake (3512034), San Luis Obispo (3512036), Morro Bay South (3512037), Camatta Ranch (3512043), Atascadero (3512046), Morro Bay North (3512047), Camatta Canyon (3512053), Piedras Blancas (3512163), Burro Mountain (3512173)																							Some historical occurrences extirpated by urbanization. Threatened by development. Potentially threatened by road widening. Includes plants previously treated as D. increscens ssp. foliosa from SBA and SLO cos. Confused with D. conjugens and D. fasciculata. See Hemizonia paniculata in TJM (1993). See Proceedings of the American Academy of Arts and Sciences 19:17 (1883) for original description.	Deinandra paniculata (A. Gray) Davidson & Moxley	PDAST4R0N0	HEPA6	1/1/2001	3/24/2016
Dudleya multicaulis	many-stemmed dudleya	Crassulaceae	perennial herb	1B.2	G2	S2	None	None	Apr-Jul	Chaparral, Coastal scrub, Valley and foothill grassland	often clay	15	45	790	2590	T		LAX, ORA, RIV, SBD, SDG	Vail Lake (3311648), Morro Hill (3311733), Las Pulgas Canyon (3311734), San Onofre Bluff (3311735), Fallbrook (3311743), Margarita Peak (3311744), San Clemente (3311745), Dana Point (3311746), Sitton Peak (3311754), Canada Gobernadora (3311755), San Juan Capistrano (3311756), Laguna Beach (3311757), Lake Elsinore (3311763), Alberhill (3311764), El Toro (3311766), Tustin (3311767), Newport Beach (3311768), Lake Mathews (3311774), Corona South (3311775), Black Star Canyon (3311776), Orange (3311777), Corona North (3311785), Prado Dam (3311786), La Habra (3311788), Whittier (3311881), Venice (3311884), San Dimas (3411717), Baldwin Park (3411718), Mt. Baldy (3411726), Glendora (3411727), Azusa (3411728), El Monte (3411811), Hollywood (3411813), Topanga (3411815), Calabasas (3411826)	154	8	21	4	4	12	105	98	56	142	5	7	Occurrence on 49B needs verification; exact location and identification uncertain. Seriously threatened by development, road construction and maintenance, fire suppression, non-native plants, mining, grazing, and recreation. Possibly threatened by military activities See Bulletin of the New York Botanical Garden 3:38 (1903) for original description, and Madroño 45(3):215-220 (1998) and 57(1):42-53 (2010) for population ecology	Dudleya multicaulis (Rose) Moran	PDCRA040H0	DUMU	1/1/1974	11/15/2010
Juglans californica	Southern California black walnut	Juglandaceae	perennial deciduous tree	4.2	G4	S4	None	None	Mar-Aug	Chaparral, Cismontane woodland, Coastal scrub, Riparian woodland	alluvial	50	160	900	2955	T		LAX, ORA, RIV, SBA, SBD, SDG, VEN	Sitton Peak (3311754), Lake Elsinore (3311763), Anaheim (3311778), El Casco (3311781), Prado Dam (3311786), Yorba Linda (3311787), La Habra (3311788), Whittier (3311881), Yucaipa (3411711), Ontario (3411716), Baldwin Park (3411718), San Bernardino North (3411723), Devore (3411724), Cucamonga Peak (3411725), Glendora (3411727), Cajon (3411734), El Monte (3411811), Hollywood (3411813), Topanga (3411815), Mt. Wilson (3411821), Burbank (3411823), Van Nuys (3411824), Condor Peak (3411832), San Fernando (3411834), Oat Mountain (3411835), Santa Susana (3411836), Newhall (3411845), Acton (3411846), Val Verde (3411846), Acton (3411846), Val Verde (3411846), Ojai (3411942), Matilija (3411943), White Ledge Peak (3411944)																	Walnut forest is a much fragmented, rare, and declining vegetation community. Threatened by urbanization, grazing, non-native plants, and possibly by lack of natural reproduction. Possibly threatened by hybridization with horticultural varieties of walnut. A synonym of J. californica var. californica in The Jepson Manual. See Proceedings of the American Academy of Arts and Sciences 10:349 (1875) for original description, and Southern California Botanists Special Publication No. 3, pp. 42-54	Juglans californica Wats.	Juglans californica var. californica	PDJUG02020	JUCA	1/1/1994	7/23/2015

Lasthenia glabrata ssp. coulteri	Coulter's goldfields	Asteraceae	annual herb	1B.1	G4T2	S2	None	None	Feb-Jun	Marshes and swamps (coastal salt), Playas, Vernal pools		1	0	1220	4005	F	BA	COL, KRN, LAX, MER, ORA, RIV, SBA, SBD, SDG, SLO, SOL, SRO, TEH, TUL, VEN, YOL	Jamul Mountains (3211668), Imperial Beach (3211751), National City (3211761), La Jolla (3211772), Del Mar (3211782), Bucksnort Mtn. (3311645), Anza (3311656), Cahuilla Mtn. (3311657), Idyllwild (3311666), San Jacinto (3311678), Rancho Santa Fe (3311712), Encinitas (3311713), Oceanside (3311724), Morro Hill (3311733), Temecula (3311742), San Clemente (3311745), Bachelor Mtn. (3311751), Murrieta (3311752), Laguna Beach (3311757), Winchester (3311761), Romoland (3311762), Lake Elsinore (3311763), Tustin (3311767), Newport Beach (3311768), Lakeview (3311771), Perris (3311772), Anaheim (3311778), El Casco (3311781), Sunnymead (3311782), Riverside West (3311784), La Habra (3311788), Seal Beach (3311861), Los Alamitos (3311871), Long Beach (3311872), Torrance (3311873), Whittier (3311881), Inglewood (3311883), Venice (3311884), Santa Rosa Island East (3311988), Santa Rosa Island North (3312081), Twentynine Palms (3411621), Beverly Hills (3411814), Malibu Beach (3411816), Mt. Wilson (3411821), Pasadena (3411822), Canoga Park (3411825), Point Mugu (3411911), Oxnard (3411922), Ventura (3411933), Carpinteria (3411945), Santa Barbara (3411946), Goleta (3411947), Santa Ynez (3412051), Surf (3412065), Tehachapi South (3511814), Tehachapi NE (3511823), Tehachapi North (3511824), Bena (3511836), Elkhorn Hills (3511915), Millux (3511922), Panorama Hills (3511926), Painted Rock (3511927), Lokern (3511945), Las Yeguas Ranch (3511948), Lost Hills NE (3511965), Lost Hills NW (3511966), Delano West (3511973), Lone Tree Well (3511976), Alpaugh (3511984), Morro Bay South (3512037), Monson (3611943), Arena (3712036), Stevinson (3712037), Denverton (3812128), Dozier (3812137), Elmira (3812138), Dunnigan (3812188), Richardson Springs NW (3912188), Colusa (3912221)	111	7	8	4	2	15	75	61	50	96	14	1	Known to have declined significantly by 1966; seriously threatened by urbanization and agricultural development. Also threatened by road maintenance. Potentially threatened by foot traffic and drought. Does plant occur in TUL Co.? See Synoptical Flora of North America 1(2):324 (1884) for original description, University of California Publications in Botany 40:1-92 (1966) for taxonomic treatment, and Madroño 47(3):174-188 (2000) for ecological information.	Lasthenia glabrata Lindl. ssp. coulteri (Gray) Ornduff	PDAST5L0A1	LAGLC	1/1/1994	7/7/2014
Lepidium virginicum var. robinsonii	Robinson's pepper-grass	Brassicaceae	annual herb	4.3	G5T3	S3	None	None	Jan-Jul	Chaparral, Coastal scrub		1	0	885	2905	F	BA	LAX, ORA, RIV, SBA, SBD, SCZ, SDG, VEN	Campo (3211654), Tecate (3211656), Otay Mountain (3211657), Otay Mesa (3211658), Morena Reservoir (3211665), Dulzura (3211667), Jamul Mountains (3211668), Viejas Mountain (3211676), Alpine (3211677), El Cajon Mtn. (3211687), San Vicente Reservoir (3211688), Imperial Beach (3211751), National City (3211761), Point Loma (3211762), La Mesa (3211771), La Jolla (3211772), Poway (3211781), Del Mar (3211782), San Clemente Island South (3211873), San Clemente Island North (3211885), Ramona (3311617), San Pasqual (3311618), Rodriquez Mtn. (3311628), Bucksnort Mtn. (3311645), Beauty Mountain (3311646), Aguanga (3311647), Vail Lake (3311648), Butterfly Peak (3311655), Sage (3311658), Hemet (3311668), Escondido (3311711), Rancho Santa Fe (3311712), Encinitas (3311713), Valley Center (3311721), San Marcos (3311722), San Luis Rey (3311723), Pala (3311731), Morro Hill (3311733), Las Pulgas Canyon (3311734), San Onofre Bluff (3311735), Pechanga (3311741), Temecula (3311742), Fallbrook (3311743), Margarita Peak (3311744), Bachelor Mtn. (3311751), Murrieta (3311752), Winchester (3311761), Romoland (3311762), Alberhill (3311764), Santiago Peak (3311765), El Toro (3311766), Tustin (3311767), Steele Peak (3311773), Lake Mathews (3311774), Corona South (3311775), Black Star Canyon (3311776), El Casco (3311781), Riverside East (3311783), Riverside West (3311784), Corona North (3311785), Prado Dam (3311786), Yorba Linda (3311787), San Nicolas Island (3311924), Santa Cruz Island C (3311985), Santa Cruz Island B (3311986), Yucaipa (3411711), Redlands (3411712), San Bernardino South (3411713), Fontana (3411714), Ontario (3411716), San Dimas (3411717), Mt. Baldy (3411726), Glendora (3411727), Azusa (3411728), Los Angeles (3411812), Mt. Wilson (3411821), Sunland (3411833), San Fernando (3411834), Ojai (3411942), Lompoc (3412064), Surf (3412065)	142	1	6	5	1	1	128	78	64	141	1	0	Previously CRPR 1B.2; more common than originally known. Threatened by development. Possibly threatened by non-native plants. A synonym of L. virginicum ssp. menziesii in TJM 2. See Mitteilungen aus dem Botanischen Museum der Universität Zürich 28:255-256 (1906) for original description and Madroño 3(7):265-320 (1936) for taxonomic treatment.	Lepidium virginicum L. var. robinsonii (Thell.) Hitchc.	PDBRA1M114	LEVIR	1/1/1994	10/2/2017
Phacelia hubbyi	Hubby's phacelia	Hydrophyllaceae	annual herb	4.2	G4	S4	None	None	Apr-Jul	Chaparral, Coastal scrub, Valley and foothill grassland	gravelly, rocky, talus	0	0	1000	3280	T		KRN, LAX, SBA, VEN	Yorba Linda (3311787), San Pedro (3311863), Torrance (3311873), Redondo Beach (3311874), Santa Cruz Island D (3311984), Santa Cruz Island C (3311985), San Dimas (3411717), Los Angeles (3411812), Hollywood (3411813), Malibu Beach (3411816), Point Dume (3411817), Triunfo Pass (3411818), Burbank (3411823), Van Nuys (3411824), Sunland (3411833), Val Verde (3411846), Acton (3411846), Piru (3411847), Warm Springs Mountain (3411855), Ventura (3411933), Matilija (3411943), Santa Barbara (3411946), Goleta (3411947), Hildreth Peak (3411955), Little Pine Mtn. (3411956), San Marcos Pass (3411957), Santa Ynez (3412051), Lompoc (3412064), Twitchell Dam (3412083), Cinco (3511831)													Many collections old; need field surveys. Possibly threatened by development, fire suppression, and weed control measures. See P. cicutaria var. hubbyi in The Jepson Manual (1993). See Contr. Gray Herb. 49: 29 (1917) for original description, and Leaflets of Western Botany III(5): 120 (1942) and Madroño 56(3):205-207 (2009) for revised nomenclature.	Phacelia hubbyi (J.F. Macbr.) L.M. Garrison	Phacelia cicutaria var. hubbyi	PDHYD0C0R4	PHHU4	2/2/2007	10/18/2016
Phacelia ramosissima var. austrolitoralis	south coast branching phacelia	Hydrophyllaceae	perennial herb	3.2	G5?T3Q	S3	None	None	Mar-Aug	Chaparral, Coastal dunes, Coastal scrub, Marshes and swamps (coastal salt)	sandy, sometimes rocky	5	15	300	985	F	BA	LAX, MNT, ORA, SBA, SDG, SLO, VEN	Del Mar (3211782), Rancho Santa Fe (3311712), Encinitas (3311713), San Luis Rey (3311723), Dana Point (3311746), San Juan Capistrano (3311756), Laguna Beach (3311757), Newport Beach (3311768), Anaheim (3311778), La Habra (3311788), Venice (3311884), Santa Cruz Island D (3311984), Santa Cruz Island B (3311986), San Miguel Island East (3312083), San Miguel Island West (3312084), Point Dume (3411817), Triunfo Pass (3411818), Point Mugu (3411911), Oxnard (3411922), Ventura (3411933), Carpinteria (3411945), Santa Barbara (3411946), Goleta (3411947), Dos Pueblos Canyon (3411948), Point Conception (3412044), Tranquillon Mtn. (3412055), Point Arguello (3412056), Lompoc (3412064), Surf (3412065), Zaca Lake (3412071), Orcutt (3412074), Casmalia (3412075), Nipomo (3512014), Oceano (3512015), Monterey (3612158)													Previously on List 4.2. Occurrences from MON and SLO counties may be misidentified. Many collections old; need field surveys. Threatened by development. Possibly threatened by non-native plants. Characters distinguishing the varieties of P. ramosissima do not work most of the time; needs further study. A synonym of P. ramosissima in TJM 2.	Phacelia ramosissima Lehm. var. austrolitoralis Munz	PDHYD0C416	PHRA	5/18/2007	10/18/2016

Quercus engelmannii	Engelmann oak	Fagaceae	perennial deciduous tree	4.2	G3	S3	None	None	Mar-Jun	Chaparral, Cismontane woodland, Riparian woodland, Valley and foothill grassland		50	160	1300	4265	F	BA	LAX, ORA, RIV, SCT, SDG	Otay Mesa (3211658), Barrett Lake (3211666), Dulzura (3211667), Jamul Mountains (3211668), Viejas Mountain (3211676), Alpine (3211677), El Cajon (3211678), Cuyamaca Peak (3211685), Tule Springs (3211686), El Cajon Mtn. (3211687), San Vicente Reservoir (3211688), Earthquake Valley (3311614), Julian (3311615), Santa Ysabel (3311616), Ramona (3311617), San Pasqual (3311618), Ranchita (3311625), Warners Ranch (3311626), Mesa Grande (3311627), Rodriquez Mtn. (3311628), Palomar Observatory (3311637), Boucher Hill (3311638), Escondido (3311711), Rancho Santa Fe (3311712), Encinitas (3311713), Valley Center (3311721), San Marcos (3311722), Pala (3311731), Bonsall (3311732), Las Pulgas Canyon (3311734), Pechanga (3311741), Temecula (3311742), Fallbrook (3311743), Margarita Peak (3311744), Murrieta (3311752), Sitton Peak (3311754), Yorba Linda (3311787), La Habra (3311788), San Dimas (3411717), Azusa (3411728), Mt. Wilson (3411821), Pasadena (3411822)																	Only one tree remaining on SCT Isl. Threatened by development and grazing. Protected in part at the Santa Rosa Plateau Preserve (TNC), RIV Co. See Fremontia 18(3):26 35 (1990) for species account and ecological discussion.	Quercus engelmannii Greene	PDFAG050K0	QUEN	1/1/1988	3/15/2010
Romneya coulteri	Coulter's matilija poppy	Papaveraceae	perennial rhizomatous herb	4.2	G4	S4	None	None	Mar-Jul(Aug)	Chaparral, Coastal scrub	Often in burns	20	65	1200	3935	F	BA	LAX, ORA, RIV, SDG	Otay Mountain (3211657), Otay Mesa (3211658), Dulzura (3211667), Jamul Mountains (3211668), San Clemente (3311745), Wildomar (3311753), Canada Gobernadora (3311755), Lake Elsinore (3311763), Alberhill (3311764), Santiago Peak (3311765), Steele Peak (3311773), Lake Mathews (3311774), Corona South (3311775), Black Star Canyon (3311776), Riverside East (3311783), Prado Dam (3311786), Yorba Linda (3311787), Mt. Wilson (3411821), Pasadena (3411822)															Threatened by urbanization, flood control, road widening, and road maintenance.	Romneya coulteri Harv.	PDPAP0L010	ROCO	1/1/1974	9/24/2014
Symphyotrichum defoliatum	San Bernardino aster	Asteraceae	perennial rhizomatous herb	1B.2	G2	S2	None	None	Jul-Nov(Dec)	Cismontane woodland, Coastal scrub, Lower montane coniferous forest, Meadows and seeps, Marshes and swamps, Valley and foothill grassland	near ditches, streams, springs	2	5	2040	6695	T		IMP, KRN, LAX, ORA, RIV, SBA, SBD, SDG, SLO	In-ko-pah Gorge (3211661), Live Oak Springs (3211663), Morena Reservoir (3211665), Mount Laguna (3211674), Descanso (3211675), Monument Peak (3211684), Cuyamaca Peak (3211685), Tule Springs (3211686), Julian (3311615), Santa Ysabel (3311616), Warners Ranch (3311626), Warner Springs (3311636), Palomar Observatory (3311637), Boucher Hill (3311638), Beauty Mountain (3311646), Idyllwild (3311666), San Jacinto Peak (3311676), Lake Fulmor (3311677), Cabazon (3311687), Murrieta (3311752), Wildomar (3311753), Alberhill (3311764), Tustin (3311767), Newport Beach (3311768), Lake Mathews (3311774), Anaheim (3311778), El Casco (3311781), Sunnymead (3311782), Prado Dam (3311786), Seal Beach (3311861), Los Alamitos (3311871), Long Beach (3311872), Torrance (3311873), Inglewood (3311883), Big Bear Lake (3411628), Big Bear City (3411637), San Bernardino South (3411713), Fontana (3411714), Guasti (3411715), Ontario (3411716), San Dimas (3411717), Baldwin Park (3411718), San Bernardino North (3411723), Silverwood Lake (3411733), Cajon (3411734), Telegraph Peak (3411735), Mount San Antonio (3411736), Crystal Lake (3411737), Victorville (3411753), Hollywood (3411813), Lebec (3411877), Cuddy Valley (3411971), Orcutt (3412074), Claraville (3511843), Oceano (3512015)	102	1	6	1	1	16	77	51	51	86	3	13	Possibly threatened by non-native plants, and grazing. Possible hybrids have been collected in VEN, SBA and SLO cos. Identification of specimen from OBI Co. (221D) needs verification. A synonym of Aster bernardinus in TJM (1993). See Phytologia 77(3):279 (1994) for revised nomenclature.	Symphyotrichum defoliatum (Parish) Nesom	PDASTE80C0	SYDE	1/1/2004	3/1/2018

Appendix P

Hazardous Materials Technical Study

Hazardous Materials Technical Study

California State University, Fullerton
800 North State College Boulevard
Fullerton, California

prepared for
California State University, Fullerton

prepared by
Rincon Consultants, Inc.

April 24, 2020

RINCON CONSULTANTS, INC.
Environmental Scientists | Planners | Engineers
rinconconsultants.com

Rincon Consultants, Inc.

250 East 1st Street, Suite 1400
Los Angeles, California 90012

213 788 4842
FAX 908 2200

info@rinconconsultants.com
www.rinconconsultants.com

April 24, 2020
Project 18-06014

Sarab D. Singh, CCM, PMP
Director of Construction Management
California State University, Fullerton
Capital Programs & Facilities Management
800 N State College Blvd, T-300
Fullerton, California 92831

Subject: **Hazardous Materials Technical Study**
California State University, Fullerton
800 North State College Boulevard
Fullerton, California

Dear Mr. Singh:

This report presents the findings of a Hazardous Materials Technical Study completed by Rincon Consultants, Inc. for California State University, Fullerton, located at 800 North State College Boulevard in Fullerton, California (subject property). The Phase I ESA was performed in accordance with our proposal dated September 17, 2018 and California Environmental Quality Act (CEQA) Services Master Enabling Agreement dated May 14, 2019.

The accompanying report presents our findings and provides an opinion regarding the presence of recognized environmental conditions. Our work program for this project, as referenced in our contract, is intended to meet a portion of the guidelines outlined in the American Society for Testing and Materials (ASTM), Standard Practice for Environmental Site Assessments: *Phase I Environmental Site Assessment Process* (ASTM Standard E-1527-13). User and Owner Questionnaires were excluded from the standard Phase I ESA scope of work; however, University representatives were interviewed during the site reconnaissance. Our scope of services, pursuant to ASTM practice, did not include any inquiries with respect to asbestos, lead-based paint, lead in drinking water, wetlands, regulatory compliance, cultural and historic resources, industrial hygiene, health and safety, ecological resources, endangered species, vapor intrusion or other indoor air quality, mold, or high-voltage power lines.

Thank you for selecting Rincon for this project. If you have any questions, or if we can be of any future assistance, please contact us.

Sincerely,
Rincon Consultants, Inc.

Lauren Kodama Roenicke
Environmental Scientist

Walt Hamann, PG, CEG, CHG
Vice President, Environmental Services

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Executive Summary

This report presents the findings of a Hazardous Materials Technical Study for California State University, Fullerton (CSUF) located at 800 N State College Boulevard, Fullerton, California (Figure 1, Vicinity Map) (subject property). The Hazardous Materials Technical Study was performed by Rincon Consultants, Inc. (Rincon). CSUF has requested this assessment and will use the information for the purposes of preparing a Master Plan Update for the subject property.

The subject property is located in an area that is primarily composed of residential, commercial, educational and vacant land uses. Rincon performed a reconnaissance of the subject property on July 2, 2019. The purpose of the reconnaissance was to observe existing conditions and to obtain information indicating the presence of recognized environmental conditions in connection with the subject property. Small quantities of hazardous materials and petroleum products were observed in the facilities and maintenance auto shop, receiving buildings, student recreation center, bulk chemical/hazardous waste area, bulk chemical storage located outside of the chilling room, Dan Black Hall Research Building, Central Plant, student housing water treatment room, and Kinesiology and Health Science Pool Room. Specific hazardous materials are described in the Site Reconnaissance Section of this report.

A regulatory database search was conducted for sites that generate, store, treat or dispose of hazardous materials or sites for which a release or incident has occurred. The search was conducted for the subject property and included data from surrounding sites within a specified radius of the property. The subject property was listed in numerous databases searched by EDR, including multiple release databases. Most of the releases of concern were associated with the closure of onsite underground storage tanks (USTs) located in at least seven areas of the subject property. Although all of the releases have been closed, closure documentation was not available for each release site.

Five adjacent properties were listed in databases searched by EDR; two of those properties were listed as release sites. Based on the information available for the adjacent properties, none of the adjacent releases are expected to impact the subject property.

Historical sources reviewed as part of the Phase I ESA include aerial photographs, topographic maps, and city directories. The historical sources reviewed indicate that the subject property and adjacent properties were used for agricultural purposes (orchards) since at least 1938 through as recently as 1977.

Based on the findings of this assessment, it is our opinion that there are seven environmental conditions in connection with the subject property as follows.

1. Three onsite releases from USTs at known locations
2. Four onsite releases from USTs at unknown locations
3. Release from onsite elevator equipment and transformers
4. Historical use of the subject property for agricultural purposes for over 40 years
5. Abandoned in-place crude oil pipeline on the subject property
6. Onsite generators (24)
7. Aerially-deposited lead in soil

Based on the former releases from onsite USTs, a soil management plan for known and unknown release locations should be prepared prior to redevelopment of the subject property. If discolored or odorous soil is encountered during redevelopment of the subject property, Rincon recommends conducting soil sampling in the area of impacted soil.

To evaluate the subject property impact associated with the former release from an onsite elevator and transformer, a soil management plan should be prepared prior to redevelopment of the subject property. If discolored or odorous soil is encountered during redevelopment of the subject property, Rincon recommends conducting soil sampling the area of impacted soil.

Prior to redevelopment of former agricultural areas, CSUF should collect shallow soil samples from the work area and analyze these samples for pesticides and arsenic. If hazardous materials are detected at elevated concentrations, a soil management plan should be prepared to handle the impacted materials properly.

During redevelopment activities in the vicinity of the abandoned pipeline, if stained/odorous soil is encountered, additional assessment may be warranted. A soil management plan should also be prepared prior to redevelopment of the subject property.

One release from an onsite generator was reported in 1994. Because no documentation pertaining to the cleanup of the release was provided, a soil management plan should be prepared for this release and other potential past releases from all onsite generators prior to redevelopment; if stained/odorous soil is encountered, additional assessment may be warranted.

State Route 57 is located adjacent to the east of the subject property. In this area, if redevelopment is planned within 50 feet of the highway, soil sampling should be conducted.

Although not considered a Recognized Environmental Condition, based on the age of the onsite structure(s) (the earliest in at least 1963) asbestos-containing materials and lead-based paint may be present on the subject property. Therefore, prior to renovation or demolition activities at the subject property, Rincon recommends conducting an asbestos-containing building materials and lead-based paint surveys.

Introduction

The following sections present our findings and provide our opinion as to the presence of recognized environmental conditions (RECs) on the subject property and recommendations prior to and during future redevelopment of the property.

Purpose

CSUF has requested this assessment and will use the information for the purposes of updating the CSUF Master Plan. The purpose of this Study was to determine if there are RECs on the subject property, taking into account commonly and reasonably ascertainable information and to qualify for Landowner Liability Protections under the Brownfields Amendments to the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA).

A recognized environmental condition (REC) is defined pursuant to ASTM E 1527-13 as,

> "the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: 1) due to any release to the environment; 2) under conditions indicative of a release to the environment; 3) under conditions that pose a material threat of a future release to the environment".

A Controlled REC is defined pursuant to ASTM E 1527-13 as,

> "a recognized environmental condition resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority (for example, as evidenced by the issuance of a no further action letter or equivalent, or meeting risk-based criteria established by regulatory authority), with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls). A condition considered by the environmental professional to be a controlled recognized environmental condition shall be listed in the findings section of the Hazardous Materials Technical Study report, and as a recognized environmental condition in the conclusions section of the Hazardous Materials Technical Study report".

A Historical REC is defined pursuant to ASTM E 1527-13 as,

> "a past release of any hazardous substances or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by regulatory authority, without subjecting the property to any required controls (for example, use restrictions, activity and use limitations, institutional controls, or engineering controls). Before calling the past release a historical recognized environmental condition, the environmental professional must determine whether the past release is a recognized environmental condition at the time the Hazardous Materials Technical Study is conducted (for example, if there has been a change in the regulatory criteria). If the EP [Environmental Professional] considers the past release to be a recognized environmental condition at the time the Phase I ESA is conducted, the condition shall be included in the conclusions section of the report as a recognized environmental condition".

A *de minimis* condition is defined pursuant to ASTM E 1527-13 as,

> "a condition that generally does not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies. Conditions determined to be de minimis conditions are not recognized environmental conditions nor controlled recognized environmental conditions".

Scope of Services

The scope of services conducted during this study is outlined below:

- Performed a reconnaissance of the subject property to identify obvious indicators of the existence of hazardous materials.
- Observed adjacent or nearby properties from public thoroughfares in an attempt to see if such properties are likely to use, store, generate, or dispose of hazardous materials.
- Obtained and reviewed an environmental records database search to obtain information about the potential for hazardous materials to exist at the subject property or at properties located in the vicinity of the subject property.
- Reviewed online files for the subject property and immediately adjacent properties as identified in the database report, as applicable.
- Reviewed the current United States Geological Survey (USGS) topographic map to obtain information about the subject property and regional topography and uses of the subject property and surrounding sites.
- Reviewed additional pertinent record sources (e.g., California Division of Oil, Gas, and Geothermal Resources records, online databases of hazardous substance release sites), as necessary, to identify the presence of RECs at the subject property.
- Reviewed reasonably ascertainable historical resources (e.g., aerial photographs, topographic maps, city directories) to assess the historical land use of the subject property and adjacent properties.
- Provided a user interview questionnaire to a representative of the client, the user of the Phase I ESA.
- Provided a property owner interview questionnaire to the property owner or a designated subject property representative identified to Rincon by the client.
- Conducted interviews with other property representatives (e.g., key site manager, occupants), as applicable.

Significant Assumptions, Limitations, Deviations, Exceptions, Special Terms, and Conditions

This work is intended to adhere to good commercial, customary, and generally accepted environmental investigation practices for similar investigations conducted at this time and in this geographic area. No guarantee or warranties, expressed or implied, are provided. The findings and opinions conveyed in this report are based on findings derived from a site reconnaissance, review of an environmental database report and specified regulatory records and historical sources. This report is not intended as a comprehensive site characterization and should not be construed as such. Standard data sources relied upon during the completion of these types of reports may vary

with regard to accuracy and completeness. Although Rincon believes the data sources are reasonably reliable, Rincon cannot and does not guarantee the authenticity or reliability of the data sources it has used. Additionally, pursuant to our contract, the data sources reviewed included only those that are practically reviewable without the need for extraordinary research.

Rincon has not found evidence that hazardous materials or petroleum products exist at the subject property at levels likely to warrant mitigation. Rincon does not under any circumstances warrant or guarantee that not finding evidence of hazardous materials or petroleum products means that hazardous materials or petroleum products do not exist on the subject property. Additional research, including surface or subsurface sampling and analysis, can reduce Client's risks, but no techniques commonly employed can eliminate these risks altogether.

In addition, our scope of services did not include any inquiries with respect to asbestos-containing building materials, biological agents, cultural and historic resources, ecological resources, endangered species, health and safety, indoor air quality unrelated to release of hazardous substances or petroleum products into the environment, industrial hygiene, lead-based paint, lead in drinking water, mold, radon, regulatory compliance, wetlands, or high-voltage power lines.

User Reliance

CSUF has requested this assessment and will use the information for the updating the CSUF Master Plan. This Phase I ESA was prepared for use solely and exclusively by CSUF. No other use or disclosure is intended or authorized by Rincon. Also, this report is issued with the understanding that it is to be used only in its entirety. It is intended for use only by the client, and no other person or entity may rely upon the report without the express written consent of Rincon.

Site Description

Location

The subject property is the campus of CSUF which is located at 800 North State College Boulevard in the City of Fullerton, Orange County, primarily in the block of land between Nutwood Avenue on the south, State College Boulevard on the west, Yorba Linda Boulevard on the north, and State Route 57 (SR 57), the Orange Freeway, on the east. A block of the subject property lies across Nutwood Avenue, which lies between Nutwood Ave to the north, Langsdorf Drive to the east, College Place to the south, and North Commonwealth Avenue to the west. The subject property is located in the northern portion of Orange County, about 1,000 feet west of the Placentia city limit, 2.0 miles northeast of downtown Fullerton, 3.25 miles northeast of downtown Anaheim, and 22 miles southeast of downtown Los Angeles. The project site encompasses approximately 240 acres.

Subject Property and Vicinity General Characteristics

The subject property is characterized by a central core of academic buildings in the southern half of the campus, with athletic facilities at the central core of the northern portion of the campus. The northern and southern portion are separated by Gymnasium Campus Drive, which running east to west, bisects the campus. The academic buildings on the southern portion of the campus are set among areas landscaped with lawns and other ornamental vegetation. This central core is bordered by paved parking lots and structures to the east and Nutwood Avenue to the south. The western edge of the southern portion is bordered with the Nutwood and State College Parking Structures,

which are separated by Titan Student Union and the CSUF College of the Arts, Department of Visual Arts.

A portion of the campus lies across Nutwood Avenue to the south, which consists of the College Park building and a paved parking lot. A portion of the campus lies across Folino Drive to the east, which consists of the Marriott Hotel.

The athletic facilities in the northern portion of the campus consist of Titan Stadium, Goodwin Field, Anderson Family Field, and the Titan Sports Complex. These are bordered by operations facilities to the west, paved parking lots to the north and west along State College Boulevard and Yorba Linda Boulevard. The Fullerton Arboretum to the east of the athletic facilities is a landscaped open space area, with a small pond, which is adjacent to student and faculty housing on its eastern edge, along Folino Drive.

The subject property is located in an area that is primarily composed of residential, commercial, educational and vacant land uses. Properties in the vicinity of the subject property include the following:

- Hope International University Campus to the south, across Nutwood Avenue; Marshal B Ketchum University to the north, across Yorba Linda Boulevard; and La Vista High School to the west, across State College Boulevard.
- Single-family homes to the west,across State College Boulevard; several multi-family developments to the north, across Yorba Linda Boulevard, to the east, across SR 57, and to the south, along College Place and Nutwood Avenue.
- The Dong Shin Church of China to the northwest, across Yorba Linda Boulevard..
- Several mixed commercial and retail developments, including the University Plaza across Nutwood Avenue, a retail center approximately 1,000 feet south, at the intersection of State College Boulevard and East Chapman Avenue, and a mixed commercial center approximately 1,000 feet to the east of the northeast corner, across SR 57.

The following utility providers service the subject property:

- Electrical Service – Southern California Edison
- Natural Gas Service – Southern California Gas Company
- Water and Sewer Service – City of Fullerton
- Solid Waste Service – MG Disposal

Records Review

Physical Setting Sources

Topography

The current USGS topographic map (La Habra, 2012) indicates that the subject property is situated at an elevation of about 250 feet above mean sea level with topography sloping down to the south southwest.

Geology and Hydrogeology

According to the California Geological Survey (CGS), *California Geomorphic Provinces, Note 36*[1], the subject property is located within the Peninsular Ranges Geomorphic Province. The Peninsular Ranges are a series of ranges separated by northwest trending valleys, subparallel to faults branching from the San Andreas Fault. The trend of topography is similar to the Coast Ranges, but the geology is more similar to the Sierra Nevada, with granitic rock intruding the older metamorphic rocks. The Peninsular Ranges extend into lower California and are bounded on the east by the Colorado Desert. The Los Angeles Basin and the island group (Santa Catalina, Santa Barbara, and the distinctly terraced San Clemente and San Nicolas islands), together with the surrounding continental shelf (cut by deep submarine fault troughs), are included in this province.

Site Geology

According to the current USGS Geologic Map (Whittier and La Habra Quadrangles, 2001), the subject property is underlain by surficial sediments, described as "alluvial gravel, sand, and silt of valleys and floodplains."

Regional Groundwater Occurrence and Quality

The subject property is located within the Coastal Plain of Orange County groundwater basin.

During the preparation of this Study, we reviewed the California State Water Resources Control Board's (SWRCB's) online GeoTracker database to determine groundwater flow direction in the vicinity of the subject property. According to *Case Summary, Fullerton Fire Station #5, 2555 E Yorba Linda Boulevard, Fullerton, California* prepared by the California Regional Water Quality Control Board, Santa Ana Region and dated March 17, 2004, groundwater is encountered between 100 and 125 feet below ground surface (bgs) and flows to the southeast. This property is located adjacent to the north of the subject property, across Yorba Linda Boulevard, approximately 110 feet north of the subject property.

Standard Environmental Record Sources

Environmental Data Resources, Inc. (EDR) was contracted to provide a database search of public lists of sites that generate, store, treat or dispose of hazardous materials or sites for which a release or

[1] https://www.conservation.ca.gov/cgs/Documents/Publications/Note_36.pdf

incident has occurred. The EDR search was conducted for the subject property and included data from surrounding sites within specified radii of the property. A copy of the EDR report, which specifies the ASTM search distance for each public list, is included as Appendix B. As shown on the attached EDR report, federal, state and county lists were reviewed as part of the research effort. Please refer to Appendix B for a complete listing of sites reported by EDR and a description of the databases reviewed.

The Map Findings Summary, included in the EDR report, provides a summary of the databases searched, the number of reported facilities within the search radii, and whether the facility is located onsite or adjacent to the subject property. The following information is based on our review of the Map Findings Summary and the information contained in the EDR report.

Subject Property

The subject property was listed on the following databases (as defined in Appendix D, pages GR-1 to GR-51

- ERNS, HIST UST, **LUST, CHMIRS**, EMI, NPDES, CERS, CERS TANKS, MANIFEST, HAZNET, CERS HAZ WASTE, FINDS, ECHO, HIST CORTESE, **RGA LUST**, CIWQS, AST, SWEEPS UST, MLTS, RCRA-LQG, UST as California State University, Fullerton and various onsite facilities at 800 N State College Boulevard
- HAZNET, CERS and EMI databases as the Marriott Hotel and Resort at 2701 Nutwood Avenue
- **RGA LUST** database as Cal State University, Fullerton at 880 North State College Boulevard
- PEST LIC database as Derek J Dobbs at 1900 Associated Road
- HAZNET databases as Fullervale Associates/Rhodes Group, Sheldon Stevens, Inc., Cal State Fullerton Foundation and College Park at 2600 East Nutwood Avenue
- CIWQS database as CSU Fullerton College of Business & Economics at 2555 E Nutwood Avenue
- **CHMIRS** database at Nutwood Avenue & Langsdorf Drive

Regulatory agency files reviewed for the subject property are discussed in the Additional Environmental Record Sources section of this report.

Offsite Properties

Offsite properties listed by EDR fall under two general categories of databases: those reporting unauthorized releases of hazardous substances (e.g., Leaking Underground Storage Tank [LUST], National Priority List [a.k.a. Superfund sites], and corrective action facilities), and databases of businesses permitted to use hazardous materials or generate hazardous wastes, for which an unauthorized release has not been reported to a regulatory agency.

Rincon reviewed the EDR Radius Map and select detailed listings to evaluate their potential to impact the subject property, based on the following factors:

- Reported distance of the facility from the subject property
- The nature of the database on which the facility is listed, and/or whether the facility was listed on a database reporting unauthorized releases of hazardous materials, petroleum products, or hazardous wastes
- Reported case type (e.g., soil only, failed underground storage tank [UST] test only)
- Reported substance released (e.g., chlorinated solvents, gasoline, metals)

- Reported regulatory agency status (e.g., case closed, “no further action”)
- Location of the facility with respect to the reported groundwater flow direction (discussed in the Geology and Hydrogeology section of this report)

Facilities/properties that were interpreted by Rincon to be of potential environmental concern to the subject property, based on one or more of the factors listed above, are summarized in Table 1. In accordance with ASTM, contamination migration pathways in soil, groundwater, and soil vapor were considered in our analysis of offsite properties of potential environmental concern.

Table 1 EDR Listing Summary of Select Sites Within One-Eighth Mile of the Subject Property

Site Name	EDR Site ID	Site Address	Distance from Subject Property	Database Reference	Comments
Subject Property					
Not reported	A1, A3, A4, A9, A10, A11, A16, A17, A22, A32-A35	800 N State College Boulevard	Subject Property	ERNS	Release of natural gas from natural gas line equipment failure in July 1990. No additional information provided. Release of 2 gallons of diesel to asphalt from truck fuel tank rupture in August 1992. Absorbents used to clean up asphalt. Forty gallons of oil and diesel impacted soil in September 1994 due to operator error. Spill contained and area isolated. Report indicates that the impacted soil was remediated. Release of 2 gallons of motor oil to asphalt in November 1994. No additional information provided. Tractor hydraulic line ruptures in February 1995. Cleanup reported to be completed. Report indicates that soil will be tested for contamination. No analytical information provided. Release of 4 liters of sulfuric acid and hydrogen peroxide to fume hood/floor in July 1995. The report indicates that the fire department was notified, and the spill was cleaned up. Release of 300 gallons of sulfuric acid in May 1999. Contents spilled into containment unit. Release of 100 pounds of transformer oil (5 parts per million of PCBs) from pole-mounted transformer in October 1997. Release was reported to be secured. Release of 0.299 liters of mercury in McCarthy Hall as result of dropped equipment in June 2001. A hazardous waste contractor was called for cleanup. Release of 13 gallons of gasoline to soil in October 2001. Impacted soil was reported to be excavated and disposed. Release of gasoline in August 2002. Release of 10 gallons of gasoline from storage tank during refueling activities in October 2002. Release of 7 liters of potassium permanganate from equipment failure of a storage tank in a laboratory building in October 2002.
California State University, Fullerton	A2, A19, A20, A23, A30, C37, 38, D42, D43, Orphans			HIST UST	One 12,000-gallon heating fuel oil UST. One 12,000-gallon gasoline UST. One 1,000-gallon gasoline UST installed in 1974. Two 2,000-gallon gasoline USTs installed in 1981. One 2,000-gallone diesel UST. One 100-gallon gasoline UST.
				LUST, CHMIRS	Release of gasoline to soil during tank closure activities in August 1987. Case closed in July 1988. Report indicates that the property was not tested for methyl tert-butyl either (MTBE). Release of gasoline to soil during tank closure activities in October 1989. Case closed in May 1990. Report indicates that the property was not tested for MTBE. Release of gasoline to soil during tank testing activities in November 1991. Case closed in August 1994. Report indicates that the property was not tested for MTBE.

Site Name	EDR Site ID	Site Address	Distance from Subject Property	Database Reference	Comments
					Release of gasoline impacted soil in August 2002. Report indicates that testing will be done. According to EDR, a release of 80-150 gallons of hydraulic fluid due to equipment failure of elevator hydraulic line occurred in June 2016. According to the records provided by CSUF, a release of approximately 50-100 gallons of hydraulic fluid occurred in May 2016. Based on the results of a pressure test on the distribution line, it was determined that the line had been breached. CSUF Environmental Health and Safety (EHS) recommended that a risk assessment be conducted. In August 2016,Wayne Perry, Inc. conducted a Preliminary Health Risk Assessment (HRA), which included soil sampling. Five soil samples were collected from the vicinity of the underground distribution line, at depths ranging from 4 to 10 feet below ground surface (bgs) and analyzed for total petroleum hydrocarbons as oil (TPHo), volatile organic compounds (VOCs) and Title 22 metals. TPHo was detected ranging from 45 milligrams per kilogram (mg/kg) to 44,000 mg/kg. Methyl isobutyl ketone (MIBK) was detected at a concentration of 63 micrograms per kilogram (µg/kg); however, it was noted that MIKB is not associated with hydraulic oil, but it more likely associated with a laboratory chemical or remnant from building construction. The HRA, using the most conservative and sensitive standards (residential land use, child receptor) indicated that the leaked hydraulic oil did not pose an unacceptable health risk to occupants, and no additional assessment was recommended.
				EMI	No pertinent information provided.
				NPDES	Construction Program as of October 2013.
				CERS, CERS TANKS	**Leaking Underground Storage Tank Cleanup Site; Aboveground petroleum storage**
				MANIFEST	175 pounds of ignitable waste, 110 pounds of corrosive waste and 40 pounds of reactive waste disposed in 1987, and 90 pounds of ignitable waste and 25 pounds of reactive waste disposed in 1990.
				HAZNET, CERS HAZ WASTE	Hazardous waste generator
				FINDS, ECHO, HIST CORTESE	No pertinent information provided.
				RGA LUST	Listed on the RGA LUST database in 2003 and from 2005 to 2012.
CSUF Physical Plant	A5, A7			FINDS	No pertinent information provided.
				RGA LUST	Listed on the RGA LUST database from 2008 to 2012. No additional information provided.
California State University Fullerton Housing Phase III	A6			CIWQS	Storm water construction terminated in August 2011.
Titan Student Union Expansion	A8			**LUST, CHMIRS**	**Release of gasoline impacted soil in August 1987. Case closed in July 1988.** **Release of gasoline impacted soil in October 1989. Case closed in May 1990. No additional information provided.** Release of 1-2 gallons of crude oil in January 1994. Report indicates that containers of crude oil fell off of a transport cart onto concrete. Release of 300 gallons of sulfuric acid in May 1999 due to shutoff valve failure of AST. Spill was reported to be limited to containment area and cleanup was reported to be “in process”. Release of 13 gallons of gasoline in October 2001 from a vehicle gas tank rupture. No additional information provided. Release of 10 gallons of gasoline in October 2002 from valve failure during AST fill up.

Site Name	EDR Site ID	Site Address	Distance from Subject Property	Database Reference	Comments
				NPDES	Construction terminated in December 2016.
				CIWQS	Storm water construction terminated in November 2016. One violation noted within 5 years.
				CERS TANKS	Leaking Underground Storage Tank Cleanup Site.
Parking Structure No. 2	A13			NPDES	Construction terminated July 2006.
				CIWQS	Storm water construction terminated. No violations within 5 years.
Parking Structure No. 1	14			CIWQS	Storm water construction terminated February 2005.
Not reported	A15			AST	1,320-gallon AST. Contents not specified.
Not reported	A18, E44			**CHMIRS**	Release of mercury during equipment transfer in McCarthy Hall in June 2001. Report indicates that the spill has been cleaned up. Release of chlorine gas from laboratory room in September 2018.
California State University Fullerton Promenade	A20			CIWQS, CERS	Storm water construction active as of February 2019. No reported violations within five years.
CSUF Childrens Center	A21			CIWQS	Storm water construction terminated October 2011. No reported violations within five years.
California State University	A25, A26			SWEEPS UST	One 2,000-gallon motor vehicle fuel UST installed in 1988. Two 12,000-gallon gasoline USTs installed in 1988. One 4,000-gallon gasoline UST installed in 1988. One 117-gallon gasoline UST installed in 1988. One 65-gallon waste UST. One 2,000-gallon gasoline UST.
				MLTS	No pertinent information provided.
CSUF Student Recreation Center	A27			CIWQS	Storm water construction terminated in June 2008. No reported violations within five years.
Auditorium & Fine Arts Facility	A28			CIWQS	Storm water construction terminated in March 2003. No reported violations within five years.
CSU Fullerton Parking Structure No. 4	A29			CIWQS	Storm water construction terminated in September 2010. No reported violations within five years.
California State University, Fullerton	A12	800 N State College Boulevard, T-1475	Subject Property	RCRA-LQG	Large Quantity Generator of hazardous waste in the form of alkaline solution with/without metals, aqueous solution, off-specified, aged or surplus organics, hydrocarbon solvents, solvent mixture, waste oil and mixed oil, oil-containing waste, biological waste, organic liquids with metals, organic solids, empty containers, photochemicals/photoprocessing waste, laboratory waste chemicals, liquids with chromium, liquids with mercury, liquids with polychlorinated biphenyls, liquids with halogenated organic compounds, liquids with pH less than 2, ignitable waste, corrosive waste, reactive waste, arsenic, barium,

Site Name	EDR Site ID	Site Address	Distance from Subject Property	Database Reference	Comments
					cadmium, chromium, lead, mercury, selenium, silver, benzene, carbon tetrachloride, chloroform, cresols, 1,4-dichlorobenzene, 1,2-dichloroethane, methyl ethyl ketone, nitrobenzene, pyridine, trichloroethylene, arsenic oxide, brucine, copper cyanide, cyanides, carbonic dichloride, potassium cyanide, silver cyanide, sodium azide, epinephrine, asbestos-containing waste, inorganics solid waste, oxygenated solvents, thermostats, batteries, lamps pesticides, etc.
				UST	No pertinent information provided.
Not reported	A24, A31	800 N State College Library	Subject Property	**CHMIRS**	Release of 20-40 gallons of diesel fuel from ruptured generator tank line in September 1994. Report indicates absorbent was applied. Release 15 gallons of PCB oil to asphalt in October 1997.
The Marriott Hotel and Resort	B36, B39	2701 Nutwood Avenue	Subject Property	HAZNET	Disposed 0.042 tons of unspecified aqueous mixture in 2012.
				CERS	Chemical Storage Facility.
				EMI	No pertinent information provided.
Cal State University, Fullerton	C40, Orphans	880 North State College Boulevard	Subject Property	**RGA LUST**	Listed as RGA Lust site in 1992 to 1998, 2001 and 2002. No additional information provided.
Derek J Dobbs	E45	1900 Associated Road	Subject Property	PEST LIC	No pertinent information provided.
Fullervale Associates/Rhodes Group & Fullervale Associates	F46, F47	2600 East Nutwood Avenue	Subject Property	HAZNET	7.5852 tons of asbestos-containing waste disposed in 1996 and 2.5284 tons of asbestos-containing waste disposed in 1997.
Sheldon Stevens, Inc.	F49			HAZNET	0.8 tons of PCBs and material containing PCBs disposed in 1996.
Cal State Fullerton Foundation	F50			HAZNET	0.15 tons of unspecified organic liquid mixture disposed in 2006.
College Park	F51			HANET	2.5037 tons of PCBs and material containing PCBs disposed in 1998.
CSU Fullerton College of Business & Economics	F48	2555 E Nutwood Avenue	Subject Property	CIWQS	Storm water construction terminated in April 2009.
Not reported	F52	Nutwood Avenue & Langsdorf Drive	Subject Property	**CHMIRS**	Release of 150 gallons of diesel fuel to road from rupture of fuel tanks in December 2000.
Adjacent Properties					
Troy High School/Fullerton JUHSD – Troy High School	G53-G55	2200 East Dorothy Lane	Adjacent Property – West	SCH, ENVIROSTOR,	Pesticides in soil listed as potential contaminants of concern based on possibly former agricultural land use. Soil samples were collected and analyzed for pesticides and metals. Based on results, no further assessment was recommended. Case status is "No Further Action" as of November 2003.
				CERS HAZ WASTE, CERS	Hazardous Waste Generator; Chemical Storage Facility

Site Name	EDR Site ID	Site Address	Distance from Subject Property	Database Reference	Comments
				RCRA NonGen/NLR	Facility does not currently generate hazardous waste as of May 1990. No violations noted.
Marshall B. Ketchum University	56	2575 Yorba Linda Boulevard	Adjacent Property – North	RCRA NonGen/NLR	Facility does not currently generate hazardous waste as of December 2018. No violations noted.
College Park Service, Inc./Circle K Stores, Inc. Site #2211165/Ronald Davis Mobil/ExxonMobil Oil Corp.	H57-H66	2601 Yorba Linda Boulevard	Adjacent Property – North	UST, FINDS, ECHO, CA FID UST, HIST CORTESE	No pertinent information provided.
				EDR Historical Auto Station	**Listed as a gasoline service station from 1989 to 2014.**
				HIST UST, SWEEPS UST	One 10,000-gallon gasoline UST installed in 1988. One 8,000-gallon gasoline UST installed in 1988. One 5,000-gallon gasoline UST. One 280-gallon waste oil UST. One 12,000-gallon diesel UST installed in 1988.
				RCRA NonGen/NLR	Facility does not currently generate hazardous waste as of May 2015. No violations noted.
				RCRA-SQG	Small Quantity Generator of hazardous waste (benzene) as of June 2013. No violations noted.
				LUST	Release of gasoline impacted aquifer used for drinking water supply in July 1998. Groundwater monitoring wells and soil vapor wells installed. None of the identified contaminants of concern were detected in groundwater after cleanup activities. Case closed in September 2018. Based on the lack of contaminants detected in groundwater samples after cleanup activities, this property is not expected to impact the subject property.
				CERS HAZ WASTE, CERS TANKS, CERS	Hazardous Waste Generator, Underground Storage Tank, Chemical Storage Facility
				HAZNET	0.075 tons of organic solids and 0.042 tons of aqueous solution disposed in 2016.
La Vista High School Expansion	67	909 N State College Boulevard	Adjacent Property – West	SCH, ENVIROSTOR	Preliminary Endangerment Assessment (PEA) conducted in 2005. PEA indicated that no further environmental investigation was recommended. DTSC concurred and issued a “No Further Action” status as of March 2006.
Fullerton Fire Station #5	I69-I72	2555 Yorba Linda Boulevard	Adjacent property – North	LUST	Release of diesel to soil during tank closure activities in November 1996. Impacted soil excavated and disposed. Case closed in March 2004.
				UST, CA FID UST, HIST CORTESE	No pertinent information provided.
				SWEEPS UST	One 550-gallon gasoline UST installed in 1988.
				HIST UST	One 550-gallon diesel UST installed in 1964.

Site Name	EDR Site ID	Site Address	Distance from Subject Property	Database Reference	Comments
				CERS TANKS, CERS	Aboveground petroleum storage, chemical storage facility, leaking underground storage tank cleanup site.

*__Bold__ listings indicate a release database

Regulatory agency information reviewed for the listings in the table above are summarized in the Additional Environmental Record Sources section of this report.

Orphan Listings

EDR reported 10 orphan or unmapped site listings, which EDR is unable to plot due to insufficient address information. Based on Rincon's review of the limited address information, 8 of the 10 listings are located on the subject property and are included in Table 2.

Additional Environmental Record Sources

Cortese Listings

Review of Agency Files

As a follow-up to the database search, Rincon reviewed regulatory information for facilities within the specified search radii that were interpreted to have the potential to impact the subject property, based on one or more factors previously discussed (e.g., distance, open case status, upgradient location, soil vapor migration).

The following is a summary of our review of regulatory information obtained from review of online sources (e.g., SWRCB GeoTracker database, Department of Toxic Substances Control [DTSC] EnviroStor database, local fire department). No in-person file reviews were conducted.

Subject Property

The subject property was listed in numerous databases searched by EDR, including multiple release databases. Most of the releases of concern were associated with the closure of onsite underground storage tanks (USTs). Some of the release case records specifically indicate that although the release case is closed, soil was not analyzed for the presence of MTBE. In addition, although all of the releases have been closed, closure documentation was not available for all of the sites.

Adjacent Properties

Five adjacent properties were listed in databases searched by EDR; two of those properties were listed as release sites. Based on the information available for the adjacent listings, none of the cases are expected to impact the subject property.

Upgradient Release Sites

None of the nearby or upgradient listed sites within 1/8 mile are release sites.

Review of State of California Division of Oil, Gas, and Geothermal Resources Records

A review of the Department of Conservation, Division of Oil, Gas, and Geothermal Resources (DOGGR) Online Mapping System[2] indicates that the following wells are located within one-quarter mile of the subject property:

- API 0405905011 – idle, oil & gas well – located approximately 0.22 mile north of the subject property

[2] https://maps.conservation.ca.gov/doggr/wellfinder/

- API 0405901115 – plugged, dry hole – located approximately 0.09 mile east of the subject property
- API 0405901111 – plugged, dry hole – located approximately 0.16 mile south of the subject property
- API 0405901117 – plugged, dry hole – located approximately 0.15 mile west of the subject property

In addition, the northern portion of the subject property is located directly adjacent to the Coyote East Oil Field. However, no oil wells are located on the subject property.

Review of National Pipeline Mapping System Records

A review of the National Pipeline Mapping System (NPMS) online Public Map Viewer[3] indicates that one permanently abandoned pipeline, formerly containing crude oil, trends east-west through the central portion of the subject property as shown in Figure 2. According to Hossein Monfared, California State Fire Marshall for hazardous liquids, the pipeline was likely abandoned in place. The exact date of abandonment is unknown; however, Mr. Monfared indicated that the pipeline has been idle since at least 1985.

Known or Suspect Contaminated Release Sites with Potential Vapor Migration

The EDR report was reviewed to identify nearby known or suspect contaminated sites that have the potential for contaminated vapor originating from the nearby site to be migrating beneath the subject property. Based on the ASTM E 2600-15, *Standard Guide for Vapor Encroachment Screening on Property Involved in Real Estate Transactions*, the following minimum search distances were initially used to determine if contaminated soil vapors from a nearby known or suspect contaminated site have the potential to be migrating beneath the subject property:

- 1/10 mile (528 feet) for petroleum hydrocarbons
- 1/3 mile (1,760 feet) for other contaminants of concern (COCs)

If upgradient known or suspect contaminated sites are located within the above referenced distances from the subject property, online resources are reviewed to determine the extent of the contaminated plume at those sites. The following describes search distances for contaminated plumes of petroleum hydrocarbons (30 feet from the subject property) and other COCs (100 feet from the subject property). Per ASTM E 2600-15, vapors associated with impacted soil or groundwater present within these distances have the potential to migrate beneath the subject property.

Petroleum Hydrocarbons

Based on our review of the EDR report, and the lack of closure documentation provided for the former onsite releases, several former releases on the subject property have (or have the potential to have) petroleum hydrocarbon-impacted soil vapor migrating beneath the subject property.

[3] https://www.npms.phmsa.dot.gov/PublicViewer/

Other COCs

Based on our review of the EDR report, there are no upgradient known or suspect sites contaminated with other COCs within 1,760 feet of the subject property. Therefore, per ASTM E 2600-15, as this distance exceeds the 100-foot distance considered the critical distance wherein such migration may pose a threat to the subject property, there are no potential threats to the subject property posed by the potential migration of other COC vapors from listed sites.

Historical Use Information on the Property and the Adjoining Properties

The historical records review completed for this Phase I ESA includes aerial photographs, topographic maps and city directories as detailed in the following sections. Copies of the historical resources reviewed are included in Appendix C.

Review of Aerial Photographs

Aerial photographs from EDR's aerial photograph collection were obtained. In addition, a current aerial from Google Earth was reviewed. The aerial photographs were reviewed on July 18, 2019.

Review of Historical Topographic Maps

Historical topographic maps from EDR's map collection were obtained. The historical topographic maps were reviewed on July 18, 2019.

Review of City Directory Listings

EDR was contracted to provide copies of city directory listings for the subject property. The city directory listings were reviewed on July 18, 2019.

Review of Fire Insurance Maps

As indicated in the attached report, fire insurance maps were not available for the subject property or adjacent properties.

Review of City of Fullerton Building Permit Records

Archived building permit records were reviewed on the City of Fullerton's Community Development website. No permits were relevant information were available.

Other Historical Sources

Based on the historical information obtained, no additional historical sources were reviewed.

Summary of Historical Uses

Subject Property

Based on our review of the documents listed above, it appears that the subject property was previously developed with the following:

- 1896 to 1898: Few small residential structures scattered throughout subject property; road traverses the far western portion trending in the north-south direction
- 1901 to 1902: Similar to previous usage, with the exception that a stream is now depicted on the northern and western boundaries, traversing the westernmost portion of the subject property
- 1935: Few small residential structures scattered throughout subject property; roads traverse the far western portion and southern half; unimproved road traverses the northern half
- 1938 to 1952: Developed with orchards and a few small residential structures; few roads
- 1963: Orchards still visible on the northern and southern portions. Part of the southern portion and the central portion appear to be under construction. Single large structure visible on southern portion, several small structures visible on the west side of the central portion. Recreational field (baseball) visible on western part of central portion
- 1972 to 1977: Some orchards still visible on the northern portion. Southern half developed with several of the current large structures. Several parking lots are visible along the boundary of the subject property. Former recreational field is no longer visible, but additional recreational fields (football, baseball) are visible on the northern portion
- 1981: Numerous structures ranging in size are visible on the southern half of the property. Several smaller structures located along the western boundary on the northern portion of the property
- 1987 to 1990: Similar to previous land uses, with the exception that orchards are no longer visible and the northeastern portion of the property appears to be developed in its current configuration of an Arboretum. Additional structures are also visible in the northeastern portion
- 1995: Similar to previous land uses, with the exception that the recreational fields on the northern portion of the property appear to have been redeveloped
- 2002: Similar to previous land uses, with the exception that additional structures are visible in the northeastern portion of the subject property
- 2005: similar to previous land uses, with the exception that a former parking lot along the western boundary is now vacant land
- 2009: Similar to previous land uses, with the exception that large structures are now visible in the place of the vacant land identified in 2005, and portions of parking lots along the eastern boundary are now vacant land, appearing to be under construction
- 2012: By 2012, the vacant land along the eastern boundary has been developed with structures and associated new parking areas. An additional structure in the southwestern portion of the subject property is also visible
- 2016 to present day: Similar to previous land uses, with the exception that an additional structure is located near the southwestern portion of the subject property

City directories indicate that the subject property was occupied by California State University, Fullerton and associated listings (i.e. stores, restaurants) from at least 1965 to 1995.

Northern Adjacent Properties

Based on our review of the documents listed above, it appears that the northern adjacent property was developed with the following:

- 1896 to 1902: Road (what is now Yorba Linda Boulevard), vacant land and few small structures. Stream visible in 1901 and 1902
- 1935: Road, vacant land and a few structures with intermittent stream depicted on the western portion
- 1938 to 1952: The majority of the northern adjacent properties are used for agricultural purposes (orchards). Few small structures and roads
- 1963: Similar to previous land uses, with the exception that some vacant land is visible on the eastern and western portions
- 1972: Orchards are no longer visible. Properties appear to be developed or under construction
- 1977 to 1981: Western portion is vacant land followed by several structures. Remainder of the property is developed with commercial and residential structures
- 1987 to present: Similar to previous land usage, with the exception that an additional structure is visible following the vacant land on the western portion, and one property on the eastern portion appears to have been redeveloped into the current gasoline station configuration

Eastern Adjacent Properties

Based on our review of the documents listed above, it appears that the eastern adjacent property was developed with the following:

- 1896 to 1935: Vacant land
    - 1935: Road depicted on southern portion
- 1938 to 1963: Used for agricultural purposes (orchards)
- 1972: Developed with current California State Route 57 followed by orchards on the northern portion, vacant land in the central portion, and current residential/commercial structures on the southern portion
- 1977: Similar to previous usage, with the exception that orchards no longer visible on northern portion and additional structures visible on the central portion
- 1987 to present day: Similar to previous usage with the exception that a large structure is visible on the northern portion

Southern Adjacent Properties

Based on our review of the documents listed above, it appears that the southern adjacent property was developed with the following:

- 1896 to 1898: Mostly vacant land with the exception of a single structure followed by a road
- 1901 to 1902: Similar to previous usage with the exception that three structures are now depicted, followed by a road
- 1935: Similar to previous usage with the exception that unimproved roads are now depicted
- 1938 to 1952: Used for agricultural purposes (orchards) with residential structures visible on the western portion

- 1963: Similar to previous usage with the exception that a portion of the eastern side is now vacant land
- 1972: Developed with a road (Nutwood Avenue), vacant land on the far eastern and far western portions and developed with the existing large structures on the central portion of the property
- 1977 to 1981: Similar to previous usage with the exception that the vacant land on the western portion is now developed with several large structures, its current configuration. Far eastern portion remains vacant land
- 1987 to present: Similar to previous usage with the exception that the far eastern portion is now developed with several structures and associated parking lot, its current configuration

Western Adjacent Properties

Based on our review of the documents listed above, it appears that the western adjacent property was developed with the following:

- 1896 to 1902: Road (what is now N State College Boulevard) followed by vacant land. Stream on the eastern portion depicted in 1901 and 1902
- 1935: Developed with few small structures and unimproved roads. Intermittent stream depicted in the northeast-southwest trending direction
- 1938 to 1952: Used for agricultural purposes with a few structures and stream visible
- 1963: Orchards still visible on the northern portion of the property. Central portion developed with current residential development. Southern portion is vacant land
- 1972 to present: Northern and central portions of the western adjacent properties developed into current residential development. Southern portion developed with multiple structures and recreational fields, its current configuration of a school

Gaps in Historical Sources

Several gaps of greater than five years were identified in the historical records reviewed, from 1902 to 1935, from 1952 to 1963, and from 1995 to 2002. These gaps are considered insignificant because the subject property use appears to be similar prior to and following the gaps.

Interviews

Rincon performed interviews regarding the subject property and surrounding areas. The purpose of the interviews was to discuss current and historical conditions and to obtain information indicating the presence of recognized environmental conditions in connection with the subject property.

Interview with Site Manager

The site managers were identified as Robert Denman, Environmental Compliance Specialist at CSUF, and Leo Lopez, Associate Director of CSUF. Mr. Denman indicated that the subject property was developed in 1957. Additional Information obtained from Mr. Denman and/or Mr. Lopez is included in the Site Reconnaissance section below.

In addition, additional records pertaining to the location of the onsite generators and documentation pertaining to the onsite release from hydraulic elevator equipment was provided by Mr. Denman.

Interviews with Occupants

Because the subject property is currently a university, no occupants were interviewed as part of this research effort.

Interviews with Local Government Officials

A public records request was submitted to the Orange County Health Care Agency (OCHCA), Environmental Health for records pertaining to the subject property on July 2, 2019. OCHCA indicated that due to the large size of the available file, an in-person file review would be required.

Rincon also requested additional information pertaining to the abandonment of the crude oil pipeline traversing the subject property from NPMS on July 19, 2019.

Interviews with Others

Rincon did not attempt to interview neighboring property owners or others as part of this Phase I ESA.

Site Reconnaissance

Rincon performed a reconnaissance of the subject property on July 2, 2019 accompanied by Robert Denman, Environmental Compliance Specialist at CSUF, and Leo Lopez, Associate Director of CSUF. The purpose of the reconnaissance was to observe existing subject property conditions and to obtain information indicating the presence of recognized environmental conditions in connection with the property.

Methodology and Limiting Conditions

The site reconnaissance was conducted by:

1. Observing the subject property from public thoroughfares,
2. Observing the adjacent properties from public thoroughfares,
3. Observing the interior of the onsite structures,
4. Observing the exterior of the structures,
5. Backtracking to correlate exterior features with interior features, as necessary, and
6. Observing the subject property from driveways, paved roads, and walking paths.

Because of the large size of the subject property, areas likely to store hazardous materials were targeted.

Current Use of the Property and Adjacent Properties

The subject property is currently occupied by California State University, Fullerton. Adjacent properties are educational, residential, and commercial.

Past Use of the Property and Adjacent Properties

Based on our site reconnaissance, past uses at the subject property and adjacent properties are not readily apparent.

Current or Past Uses in the Surrounding Areas

The subject property is surrounded by residential, commercial and educational land uses as detailed in the Site Description section of this report. Past uses of the surrounding area are not readily apparent based on the site reconnaissance.

Geologic, Hydrogeologic, Hydrologic, and Topographic Conditions

Geologic, hydrogeologic, hydrologic, and topographic information are as previously stated in the Physical Settings Section of this report.

General Description of Structures

The subject property is described in the Site Description section of this report.

Roads

Yorba Linda Boulevard is adjacent to the north, California State Route 57 is adjacent to the east, Nutwood Avenue is adjacent to the south, and Commonwealth Avenue is adjacent to the southwest of the subject property. N State College Boulevard is adjacent to the west, and Dorothy Lane is adjacent to the northwest. Arts Drive, Gym Drive, E Campus Drive, Campus Drive, and W Campus Drive all traverse the subject property.

Potable Water Supply

The City of Fullerton supplies potable water to the subject property.

Sewage Disposal System

The City of Fullerton provides sewer service to the subject property.

Interior and/or Exterior Observations

Hazardous Substances and Petroleum Products in Connection with Identified Uses

Small quantities of various hazardous substances and petroleum products were observed at the following locations:

<u>Facilities and Maintenance Auto Shop</u>

- The flammable materials cabinet contains aerosol cans and oil.
- Automobile batteries were stored on secondary containment.
- Transmission fluid, compressor fluid, and other automobile fluids are stored in buckets.
- Aboveground lifts with hydraulic oil reservoirs

<u>Receiving Buildings</u>

- The buildings in the receiving area contain paints and flammable materials.
- Parked outside the Receiving buildings are trucks that contain gasoline tanks in the back for fueling various onsite equipment.

<u>Student Recreation Center</u>

- Pool chemicals are stored in the rec center, including:
    - Bags of sodium chloride
    - Tanks of hydrochloric acid
    - Tanks of chlorine
- A diesel fuel generator was noted outside the Recreation Center.

Bulk Chemical/Hazardous Waste Area

- Laboratory debris
- Waste chemicals
- Waste storage prior to consolidating
- Radioactive waste from research room
- Pesticide storage for the botany department
- Universal waste including fluorescent tubes and biosafety supplies
- Asbestos waste
- Poly drum of lead acid batteries
- Poly drum of aerosol cans
- 2 poly drums of waste flammable liquids
- Poly drum of waste oxidizing liquids
- Flammable materials cabinets marked miscellaneous chemicals, halogenated waste, EHS supplies, bases, oxidizers/heavy metals, acids

Bulk Chemical Storage outside the Chilling Room

- One tank of sodium hydrochloride
- One tank of citric acid
- Cooling water treatment chemicals

Dan Black Hall (DBH) research building

- Chemical storage in the laboratory supply room
- Biohazardous waste
- Air cylinders

Central Plant (under construction while chillers are being removed/replaced by larger ones)

- Water treatment chemicals
- New refrigerant for construction
- Water softener

Student Housing – Water treatment for HVAC system room

- Sodium hypo-chloride tank
- Chemical sacks for water treatment

Kinesiology and Health Science (KHS) Pool Room

- Three poly drums of muriatic acid

In addition, five non-permitted diesel-fuel generators are located throughout the property. Mr. Denman indicated he can provide us a list and location of the onsite generators.

Rincon did not observe indications of releases from these containers.

Storage Tanks

During the site reconnaissance, we observed a diesel AST near the Receiving buildings. The AST is a 1,500-gallon double walled tank split into two compartments. Both compartments contain diesel fuel. According to the onsite representatives, a minor release near the pump was reported in

February 2019, the area was cleaned with Dawn soap and water, a shop vacuum, and disposed offsite.

Odors

During the site reconnaissance, Rincon did not identify any strong, pungent, or noxious odors.

Pools of Liquid

During the site reconnaissance, no pools of liquid were observed.

Drums

During the site reconnaissance, drums were observed in the following locations:

Facilities and Maintenance Auto Shop

- Three drums were noted on secondary containment. The drums were marked drained metal clad used oil filters and fuel filters, non-RCRA motor oil/transmission oil, and anti-freeze.

Bulk Chemical/Hazardous Waste Area (all on secondary containment)

- Six drums of wet soil from a leak in the Student Recreation Center pool.
- Two drums of waste flammable liquid
- One drum of non-RCRA hazardous waste (rags with oil), two of non-RCRA hazardous waste liquid (motor oil), One drum of non-RCRA hazardous waste (debris)

Chilling Room (all on secondary containment)

- One drum of lubricating oil
- Four drums of non-RCRA hazardous waste (water with oil)
- One drum non-RCRA hazardous waste (paper filters)
- One drum non-RCRA hazardous waste solid (rags with oil)
- One drum lithium bromide solution

Note: many of the drums in the chilling room were related to a minor release when one of the chillers had malfunctioned earlier in the week.

Central Plant (under construction while chillers are being removed/replaced by larger ones)

- Five drums of lubricants on secondary containment

Hazardous Substances and Petroleum Products Containers Not in Connection with Identified Uses

No hazardous substances or petroleum products not in connection with identified uses were observed at the subject property.

Unidentified Substance Containers

No unidentified substance containers or unidentified containers that might contain hazardous substances were observed during the site reconnaissance.

Indications of Polychlorinated Biphenyls (PCBs)

There are approximately 50 onsite elevators. An elevator leak was reportedly addressed in May 2016. Approximately 80 to 150 gallons of hydraulic fluid was released from the elevator distribution line in the Student Housing building. Reportedly, sampling of the soil was completed; additional information pertaining to the release was requested.

Six onsite transformer leaks have been reported at the property. Mr. Denman provided the locations of all six transformers.

The Facilities and Maintenance Auto Shop operates aboveground lifts with oil reservoirs.

The Titan Student Union north loading dock has a trash compactor. It is unclear if the hydraulic fluid in the compactor contains PCB oils.

The Titan Book Store operates a trash compactor. It is unclear if the hydraulic fluid in the compactor contains PCB oils.

The Dan Black Hall (DBH) research building operates a hydraulic lift used to unload saltwater for the aquarium. It is unclear if the hydraulic fluid in the lift contains PCB oils.

Two trash compactors were noted outside the library. It is unclear if the hydraulic fluid in the compactor contains PCB oils.

The Engineering and Computer Science Building operates indoor hydraulic machinery in the lab for soil and concrete testing. It is unclear if the hydraulic fluid in the machinery contains PCB oils.

One trash compactor was noted outside the Student Housing buildings. It is unclear if the hydraulic fluid in the compactor contains PCB oils.

Other Conditions of Concern

During the site reconnaissance, Rincon did not note any of the following:

- Pools of liquid
- Pits, ponds, and lagoons
- Stained soil or stained pavement
- Stressed vegetation
- Solid waste/debris
- Wastewater
- Wells
- Septic systems/effluent disposal system

Degreasers/Parts Washers. A parts washer was noted at the Facilities and Maintenance Auto Shop. Liquid (solvents) from the parts washer is collected in a plastic container and disposed.

Drains, Clarifiers and Sumps. A sump pump was noted outside the Facilities and Maintenance Auto Shop. The sump pump is used for stormwater.

A wash rack sump was noted in the washing area in the Receiving buildings. The sump is pumped 3 times per year.

Evaluation

Findings

Known or suspect recognized environmental conditions associated with the subject property include the following:

A. Three onsite releases from USTs at known locations
B. Four onsite releases from USTs at unknown locations
C. Release from onsite elevator equipment and transformers
D. Historical use of the subject property for agricultural purposes
E. Abandoned in-place crude oil pipeline on the subject property
F. Onsite generators (24)
G. Aerially-deposited lead in soil areas

Opinions

A. **Three onsite releases from USTs at known locations**. According to the regulatory records reviewed, releases from several onsite USTs have been reported. Although there are no current open cases, some of the release cases indicated that soil was not analyzed for the presence of MTBE. In addition, closure documentation was not available for all of the sites. Therefore, the concentration, extent of contamination, and location of contamination remaining onsite is unknown.

B. **Four onsite releases from USTs at unknown locations**. Same opinion as above.

C. **Release from onsite elevator equipment and transformer.** A release from onsite elevator equipment was reported to have occurred in May 2016. According to the documents provided by CSUF, approximately 50-100 gallons of hydraulic fluid was released from the elevator distribution line in a student housing building. Soil sampling and a Health Risk Assessment (HRA) were completed. The HRA indicated that the hydraulic oil release does not pose an unacceptable health risk to occupants. No information regarding the cleanup of the impacted soil was provided; therefore, it appears that based on the location of the impacted soil beneath concrete, no remediation was conducted. In addition, various other transformer leaks were reported by the onsite representative.

D. **Historical use of the subject property for agricultural purposes**. According to the historical records reviewed, the majority of the subject property was used as an orchard from at least 1938 to at least 1977. Due to the historical use of the subject property for agriculture purposes, there is a potential that the subject property could be impacted with pesticides, or other chemicals used routinely in agricultural production.

E. **Abandoned crude oil pipeline on the subject property.** An abandoned (likely in place) east-west trending crude oil pipeline is located on the central portion of the subject property. It was reported to have been idle since at least 1985. The exact date of abandonment is

unknown. Because the pipeline has not been assessed and removed, soil impacts from potential past releases may be present onsite.

F. **Onsite Generators.** The locations of the onsite permitted generators and associated fuel storage are included in Appendix A. One reported release from an onsite generator in 1994 was identified, however the concentration, extent of contamination, and location of contamination remaining onsite is unknown. Because the generators have not been assessed, soil impacts from potential past releases may be present onsite.

G. **Aerially-deposited lead in soil.** Aerial-deposited lead (ADL) was historically deposited by cars burning leaded gasoline and is often found in the soil adjacent to highways. Elevated concentrations of ADL may be present in soil within 50 feet of State Route 57.

Conclusions

Rincon has performed a Hazardous Materials Technical Study in general conformance with the scope and limitations of ASTM Practice E1527 for California State University, Fullerton located at 800 N State College Boulevard in Fullerton, California. Any exceptions to, or deletions from, this practice are described in the Deviations section of this report. This assessment has revealed evidence of 7 environmental conditions in connection with the subject property as follows:

Environmental Conditions

1. Three onsite releases from USTs at known locations
2. Four onsite releases from USTs at unknown locations
3. Release from onsite elevator equipment and transformers
4. Historical use of the subject property for agricultural purposes for over 40 years
5. Abandoned in-place crude oil pipeline on the subject property
6. Onsite generators (24)
7. Aerially-deposited lead in soil

Recommendations

Based on the former releases from onsite USTs, a soil management plan for known and unknown release locations should be prepared prior to redevelopment of the subject property. If discolored or odorous soil is encountered during redevelopment of the subject property, Rincon recommends conducting soil sampling in the area of impacted soil.

To evaluate the subject property impact associated with the former release from an onsite elevator and transformer, a soil management plan should be prepared prior to redevelopment of the subject property. If discolored or odorous soil is encountered during redevelopment of the subject property, Rincon recommends conducting soil sampling the area of impacted soil.

Prior to redevelopment of former agricultural areas, CSUF should collect shallow soil samples from the work area and analyze these samples for pesticides and arsenic. If hazardous materials are detected at elevated concentrations, a soil management plan should be prepared to handle the impacted materials properly.

During redevelopment activities in the vicinity of the abandoned pipeline, if stained/odorous soil is encountered, additional assessment may be warranted. A soil management plan should also be prepared prior to redevelopment of the subject property.

One release from an onsite generator was reported in 1994. Because no documentation pertaining to the cleanup of the release was provided, a soil management plan should be prepared for this release and other potential past releases from all onsite generators prior to redevelopment; if stained/odorous soil is encountered, additional assessment may be warranted.

The highway is located adjacent to the east of the subject property. In this area, if redevelopment is planned within 50 feet of the highway, soil sampling should be conducted.

Although not considered a Recognized Environmental Condition, based on the age of the onsite structure(s) (the earliest in at least 1963) asbestos-containing materials and lead-based paint may be present on the subject property. Therefore, prior to renovation or demolition activities at the subject property, Rincon recommends conducting an asbestos-containing building materials and lead-based paint surveys.

Deviations

Deviations from ASTM E1527-13 practice were encountered during the completion of this report. User and Owner Interviews were not conducted as part of this assessment.

References

The following reference materials were used in preparation of this Hazardous Materials Technical Study:

Aerial Photographs

Photos provided by Environmental Data Resources, Inc. (EDR) on June 17, 2019.

City Directory Listings

Listings provided by EDR on June 15, 2019.

Environmental Database

EDR report dated June 15, 2019.

Geology

California Geologic Survey (CGS), *California Geomorphic Provinces Note 36*, December 2002. Accessed July 2019;

United States Geological Survey Geologic Map (Whittier and La Habra Quadrangles, 2001).

Groundwater

California Department of Water Resources (DWR), *California's Groundwater Bulletin 118*, 2003, http://www.water.ca.gov/groundwater/bulletin118/publications.cfm. Accessed July 2019;

Draft Case Closure Summary, Mobil 18-LCC (Circle K Store #2211165), 2601 Yorba Linda Boulevard, Fullerton, Orange County, 92831 prepared by the California Regional Water Quality Control Board, Santa Ana Region and dated September 21, 2018.

Historical Topographic Maps

Maps provided by EDR on June 14, 2019.

Oil and Gas Records

State of California, Division of Oil, Gas, and Geothermal Resources (DOGGR) website: http://www.consrv.ca.gov/DOG/index.html. Accessed July 2019.

Pipelines

National Pipeline Mapping System (NPMS) Public Map Viewer: https://www.npms.phmsa.dot.gov/PublicViewer/. Accessed July 2019.

Topography

USGS topographic map (La Habra, 2012).

Signatures of Environmental Professionals

The qualified environmental professionals that are responsible for preparing the report include Walt Hamann, Julie Welch Marshall and Lauren Kodama Roenicke. Their qualifications are summarized in the following section.

"We declare that, to the best of our professional knowledge and belief, we meet the definition of Environmental Professional as defined in 312.10 of 40 CFR 312. We have the specific qualifications based on education, training and experience to assess a property of the nature, history, and setting of the subject property. We have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312."

Signature	April 24, 2020 Date
Walt Hamann, PG, CEG, CHG Name	Principal Title
Signature	April 24, 2020 Date
Julie Welch Marshall Name	Senior Project Manager Title
Signature	April 24, 2020 Date
Lauren Kodama Roenicke Name	Environmental Scientist Title

Qualifications of Environmental Consultants

The environmental consultants responsible for conducting this Phase I ESA and preparing the report include Walt Hamann, Julie Welch Marshall, Lauren Kodama Roenicke and Devin DiNapoli. Their qualifications are summarized below.

Environmental Professional Qualifications	**X2.1.1 (2) (i) - Professional Engineer or Professional Geologist License or Registration, and 3 years of full-time relevant experience**	**X2.1.1 (2) (ii) - Licensed or certified by the Federal Government, State, Tribe, or U.S. Territory to perform environmental inquiries**	**X2.1.1 (2) (iii) – Baccalaureate or Higher Degree from and accredited institution of higher education in a discipline of engineering or science and the equivalent of 5 years of full-time relevant experience**	**X2.1.1 (2) (iii) – Equivalent of 10 years of full-time relevant experience**
Walt Hamann	PG, CHG, CEG		MS Geology	30 years
Julie Welch Marshall			BS Environmental Engineering	23 years
Lauren Kodama Roenicke			BS Environmental Studies	6 years
Devin DiNapoli			BS Earth Science	4 years

Walt Hamann, PG, CEG, CHG, is a Principal and Senior Geologist with Rincon Consultants. He holds a Bachelor of Arts degree in geology from the University of California, Santa Barbara and a Master of Science degree in geology from the University of California, Los Angeles. He has over 30 years of experience conducting assessment and remediation projects and has prepared or overseen the preparation of hundreds of Phase I and Phase II Environmental Site Assessments throughout California. Mr. Hamann is a Professional Geologist (#4742), Certified Engineering Geologist (#1635), and Certified Hydrogeologist (#208) with the State of California.

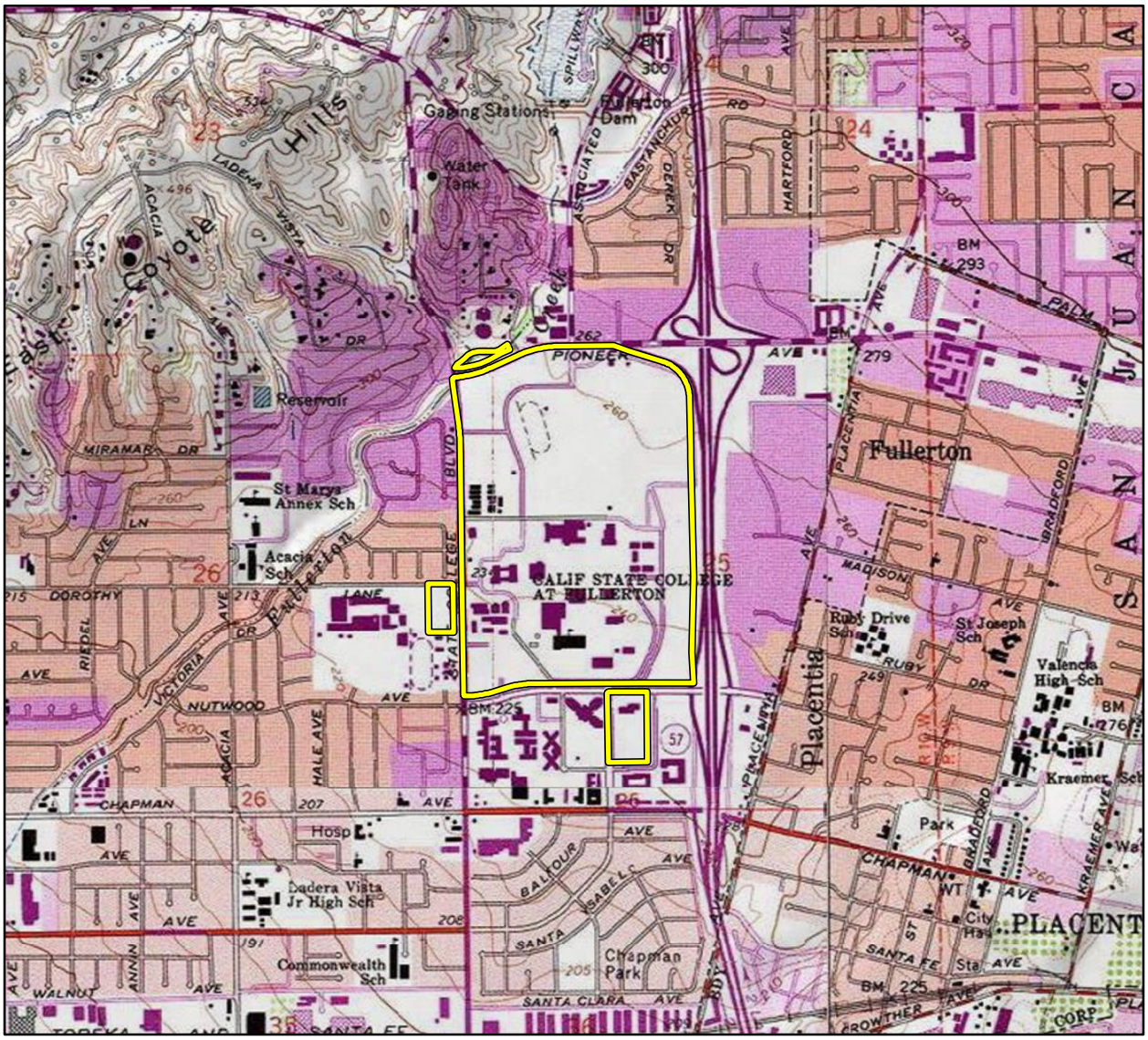
Julie Welch Marshall is a Senior Project Manager with Rincon Consultants. She holds a Bachelor of Science degree in environmental engineering from Rensselaer Polytechnic Institute, Troy, New York, a Hazardous Materials Management Certificate from the University of California, Santa Barbara Extension program, and a Business Management Certificate from the University of California, San Diego Extension program. Ms. Marshall's responsibilities at Rincon include implementation of site assessments and development of site remediation programs within the Environmental Site Assessment and Remediation Group. Ms. Marshall has extensive experience performing Due Diligence Phase I and Phase II Environmental Site Assessments as well as managing Brownfields and various remediation projects. She has 23 years of experience conducting research, assessment and remediation projects in California.

Lauren G. Kodama Roenicke is an Environmental Scientist with Rincon Consultants. She holds a Bachelor of Science degree in Environmental Studies with an outside concentration of Ecology,

Evolution, and Marine Biology from the University of California, Santa Barbara. Ms. Roenicke has experience working on Hazardous Materials Technical Studys for a variety of commercial, rural, and industrial properties. In addition, Ms. Roenicke has been involved in working on large scale, multi-site projects for developers, banks, regulatory agencies, and other public and private Clients. Ms. Roenicke's responsibilities at Rincon include implementation of Phase I and Phase II Environmental Site Assessment Reports, which involve soil, groundwater, and soil vapor assessments.

Devin DiNapoli is an Environmental Scientist with Rincon Consultants. She holds a Bachelor's Degree in Earth Science from the University of Southern California. Ms. DiNapoli has experience working on Hazardous Materials Technical Studys for a variety of commercial, rural, and industrial properties. She also has experience conducting Phase II projects including soil and soil vapor assessments. Ms. DiNapoli's responsibilities at Rincon include implementation of Phase I and Phase II Environmental Site Assessments and preparing environmental reports.

Figures



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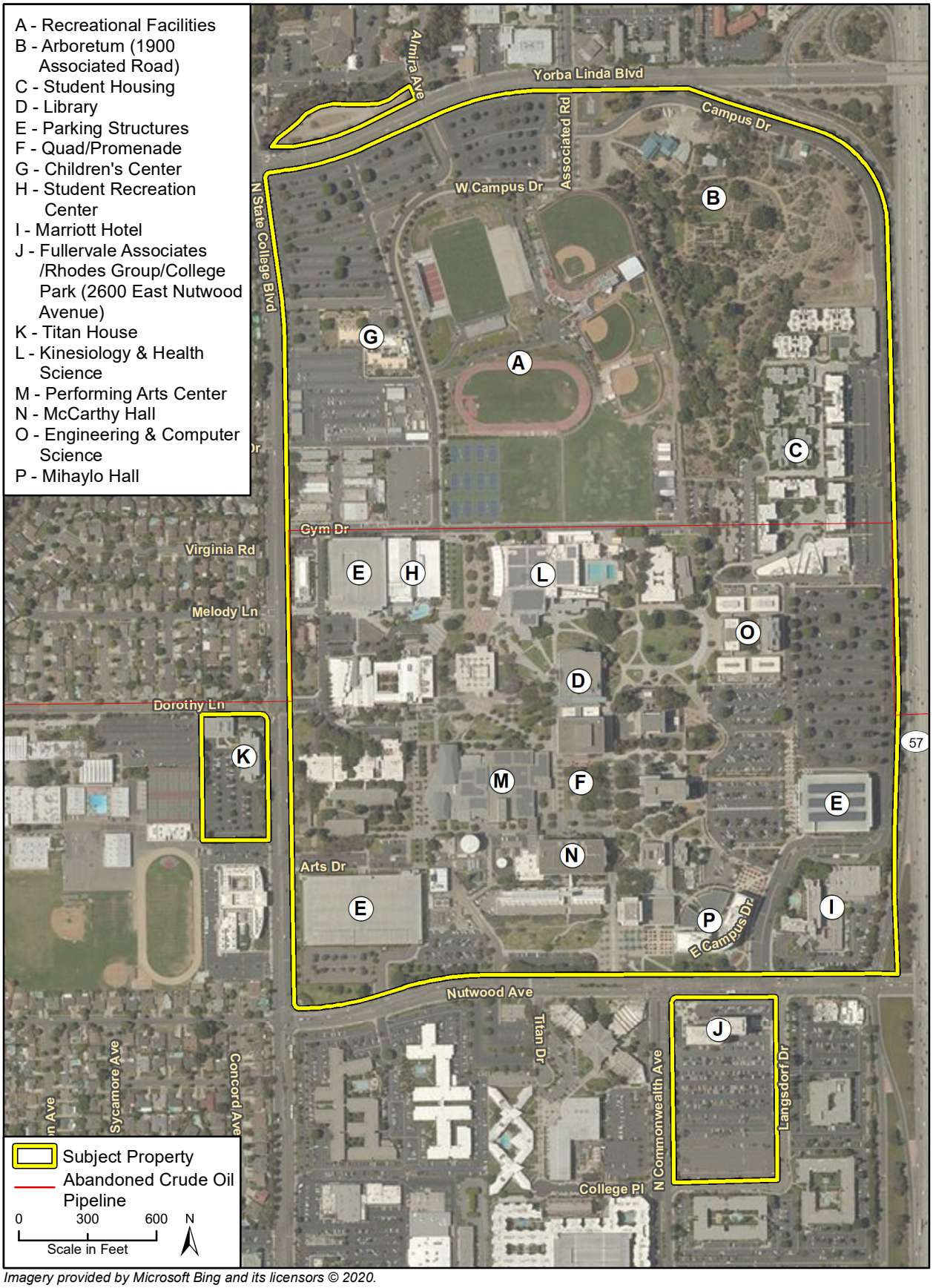
Subject Property

0 1,000 2,000
Scale in Feet

N

Vicinity Map

Figure 1



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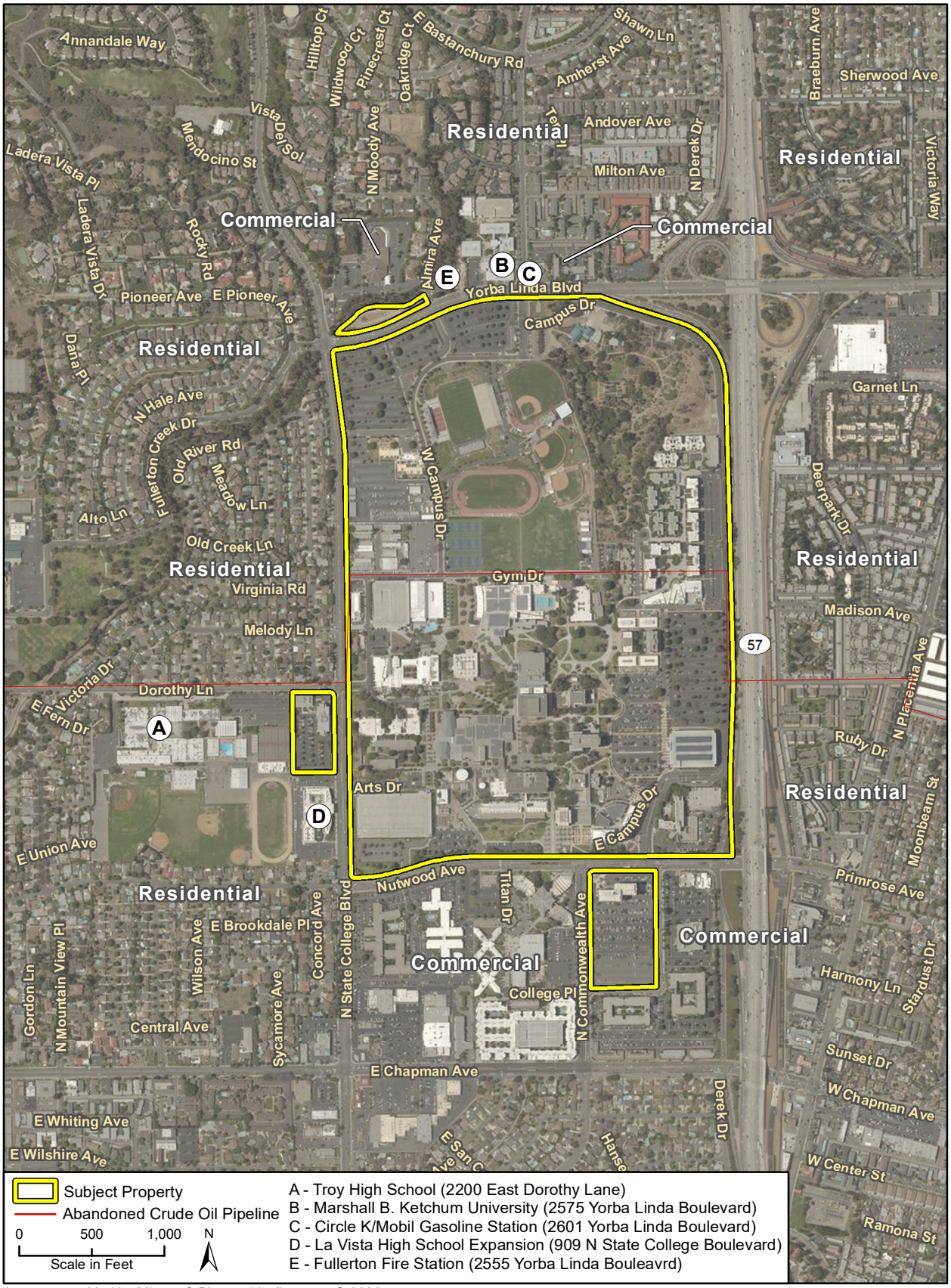
Site Map

Figure 2



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Adjacent Land Use Map

Figure 3

Photograph 1. View of the above ground lifts at the Facilities and Maintenance Auto Shop.

Photograph 2. View of drum storage at the Facilities and Maintenance Auto Shop.

Photograph 3. View of the parts washer at the Facilities and Maintenance Auto Shop.

Photograph 4. View of the vehicle fluid storage at the Facilities and Maintenance Auto Shop.

Photograph 5. View of the onsite wash area and pump near the Receiving buildings.

Photograph 6. View of the onsite 1,500-gallon diesel AST near the Receiving buildings.

Photograph 7. View of gasoline tanks in the back of the facilities trucks.

Photograph 8. View of the onsite Student Rec Center, facing northwest.

Photograph 9. View of hydrochloric acid tank at the Student Rec Center.

Photograph 10. View of the chlorine tank at the Student Rec Center.

Photograph 11. Diesel fueled generator outside the Student Rec Center.

Photograph 12. View of the trash compactor north of the Titan Student Union loading dock.

Photograph 13. View of the trash compactor near the Titan Book Store.

Photograph 14. View of pesticide storage in the Bulk Chemical/Hazardous Waste area.

Photograph 15. View of universal waste storage in the Bulk Chemical/Hazardous Waste area.

Photograph 16. View of asbestos waste storage in the Bulk Chemical/Hazardous Waste area.

Photograph 17. View of six drums of wet soil from a pool leak, stored in the Bulk Chemical/Hazardous Waste area.

Photograph 18. Waste chemicals stored in the Bulk Chemical/Hazardous Waste area.

Photograph 19. Poly drum of lead acid batteries in the Bulk Chemical/Hazardous Waste area.

Photograph 20. Flammable materials cabinets in the Bulk Chemical/Hazardous Waste area.

Photograph 21. View of radioactive waste storage in the Bulk Chemical/Hazardous Waste area.

Photograph 22. View of radioactive waste storage in the Bulk Chemical/Hazardous Waste area.

Photograph 23. View of the exterior of the chilling room.

Photograph 12. View of the lubricating oil in the Chilling Room.

Photograph 25. View of one of the chillers in the Chilling Room.

Photograph 26. View of drums in the Chilling Room.

Photograph 27. View of the leak in the Chilling Room.

Photograph 28. View of bulk chemical storage outside the Chilling Room.

Photograph 29. View of the exterior of the DBH building.

Photograph 30. Hydraulic lift at DHB loading dock.

Photograph 31. View of the elevator equipment in the DBH building.

Photograph 32. View of the DBH generator and one reported leaking transformer.

Photograph 33. View of bulk chemical storage in the laboratory supply room in the DBH building.

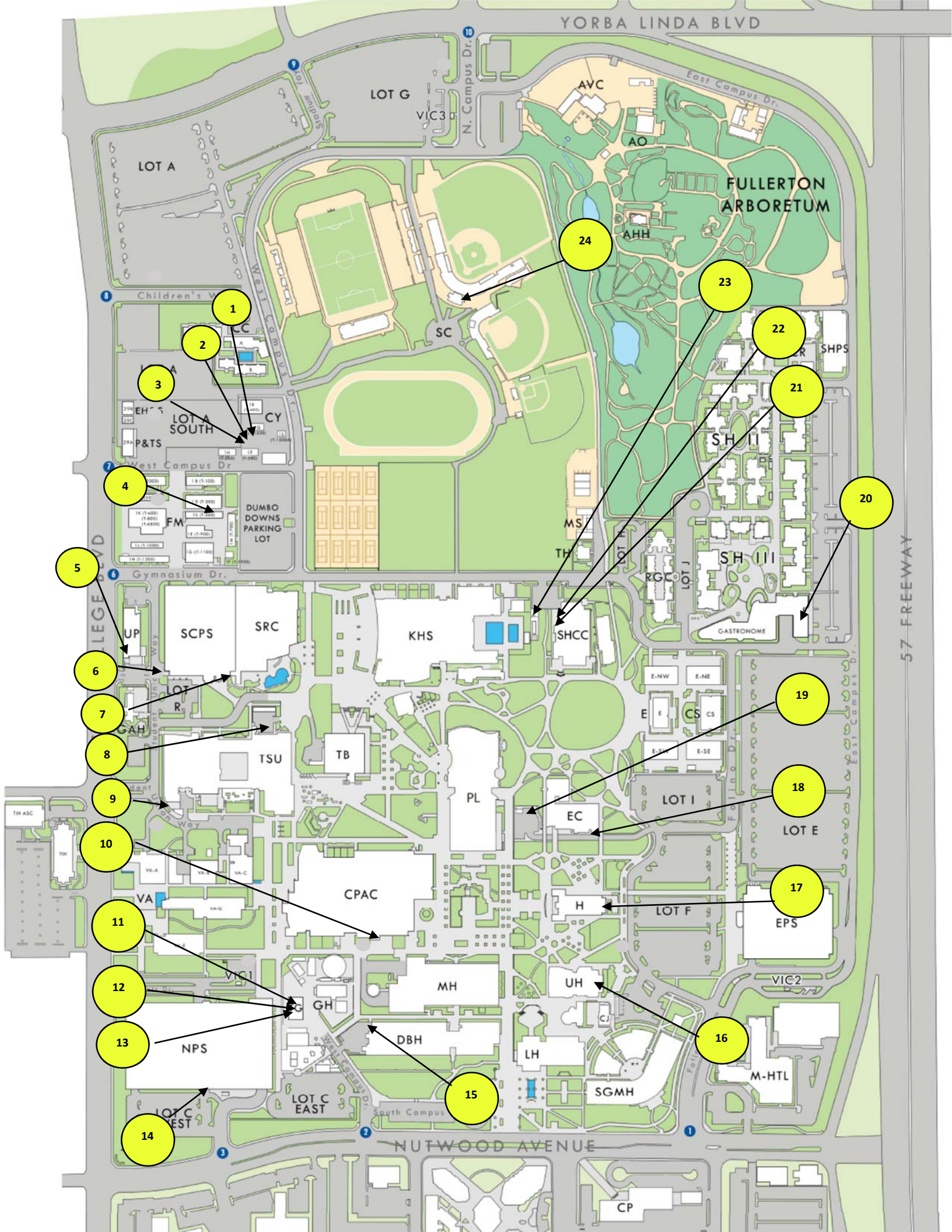
Photograph 34. Two trash compactors at the library loading dock.

Photograph 35. View of the muriatic acid drums in the KHS pool room.

Photograph 36. View of the KHS pool.

Appendix A

Map of Generator Locations


YORBA LINDA BLVD
LOT G
VIC3
N. Campus Dr.
AVC
East Campus Dr.
AO
LOT A
FULLERTON ARBORETUM
AHH
SC
Children's W
West Campus Dr
LOT A SOUTH
CY
P&TS
DUMBO DOWNS PARKING LOT
FM
MS
TH
SHPS
SH II
SH III
RGC
LOT J
GASTRONOME
Gymnasium Dr.
SCPS
SRC
KHS
SHCC
UP
LOT R
GAH
TSU
TB
PL
EC
LOT I
LOT E
E-NW
E-NE
E
CS
E-SW
E-SE
CPAC
VA
H
LOT F
EPS
VIC1
MH
UH
VIC2
GH
NPS
DBH
LH
SGMH
M-HTL
LOT C EAST
LOT C WEST
South Campus
NUTWOOD AVENUE
CP
57 FREEWAY
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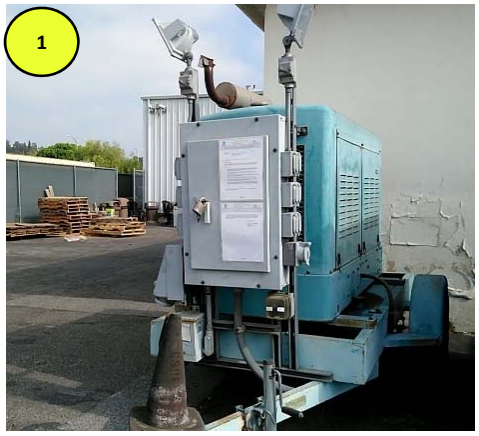
CSUF Air Permit Map Key 2018

Map #	Name	Location Notes	Key #	Key # to open generator doors	Generator Type/Description	Permit #
1	Portable Generator (Auto Shop)	South side of Corpyard entrance, near T200	N5068	No key necessary	Trailer Mounted, Portable Generator	F32999
2	Trailer Mounted (El Toro)	South side of Corpyard entrance, near T200	N5068	No key necessary	Portable Generator (El Toro Green)	G28327
3	Portable Generator (Dorms)	South side of Corpyard entrance, near T200	N5068	No key necessary	Portable Generator	G42410
4	Paint Spray Booth	Directly South of Paint Shop		No key necessary	Paint Spray Booth	70-2188
5	University Police	Outoors, South of building	Contact front desk for access	PS1	Stand-by Generator	F99991
6	State College Parking Structure #2	North of TSU, West of structure (outdoors)	N5068	PS2	Stand-by Generator	F80316
7	Student Recreation Center	Behind SRC, Near Pool	Contact front desk for access		Stand-by Generator	F95403
8	Titan Student Union (North Dock)	North Dock	N6999		Stand-by Generator	G22193
9	Titan Student Union (South Dock)	South Dock	Contact Kristina Hernandez [Rm. Tsu-045, x7708]		Stand-by Generator	D66715
10	Performing Arts	South of building, across MH loading dock	5068		Stand-by Generator	F78292
11	Trigen Turbine	South Side of Building	Contact Control Room for access		Turbine	G57445
12	Trigen Abs. Chiller #6	#6, South Chiller	Contact Control Room for access		Absorption Chiller #6	G20026
13	Trigen Abs. Chiller #7	#7, North Chiller	Contact Control Room for access		Absorption Chiller #7	G20027
14	Nutwood Parking Stucture #1	South of structure, parallel to Nutwood Ave.	N5068	PS1 (CH751)	Stand-by Generator	F68235
15	Dan Black Hall	West of Loading Dock	N5068	Open	Stand-by Generator	D65153
16	University Hall	3rd Floor, Rm. 332, Roof	N5068	EM50 (Open)	Stand-by Generator	D82155
17	Humanities	East Entrance, Near back elevators, Rm.132	N5068		Stand-by Generator	D33474
18	Education Classroom	North side of road leading to library loading dock, EC72	N5068		Stand-by Generator	D33472
19	Pollack Library	Library loading dock	N5068		Stand-by Generator	D89972
20	Student Housing	Near Gastronome, Dorms	Contact front desk and request maintenance for access		Stand-by Generator	G7407
21	Health Center Lower Room	West of Bldg.- Lower Room (HC 231)	N5068		Stand-by Generator	D43602
22	Health Center Outside	West of Bldg.- Adjacent to Lower Room	N5068	AH112	Stand-by Generator	F33913
23	Health Center Data Pod	West of Bldg.- East of KHS Pool	N5068		Stand-by Generator	G45607
24	Sports Complex	Baseball field Building, East Entrance, Near Women's restroom	N5068		Stand-by Generator	D46559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F99991

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Valley

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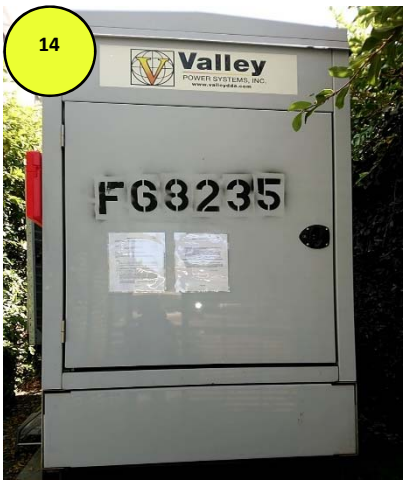

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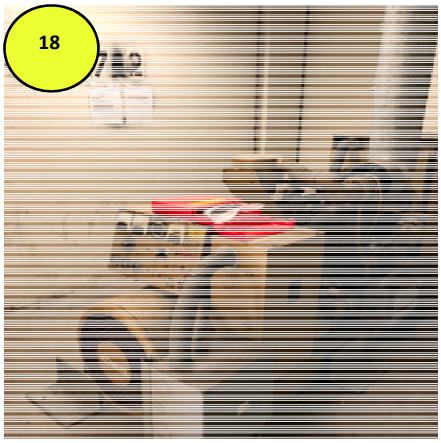

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Appendix B

List of Hydraulic Elevators

Object ID	Location	Equipment Description	Container Type	Contents	Capacity (Gallons)
Elevators (Campus Wide)					
State ID 134111	PS1	Elevator	Storage Tank	Hydraulic Oil	89
State ID 134112	PS1	Elevator	Storage Tank	Hydraulic Oil	190
State ID 134113	PS1	Elevator	Storage Tank	Hydraulic Oil	174
State ID 134114	PS1	Elevator	Storage Tank	Hydraulic Oil	184
State ID 143746	PS2	Elevator	Storage Tank	Hydraulic Oil	116
State ID 143747	PS2	Elevator	Storage Tank	Hydraulic Oil	107
State ID 143748	PS2	Elevator	Storage Tank	Hydraulic Oil	104
State ID 148687	Student Recreation Center	Elevator	Storage Tank	Hydraulic Oil	106
State ID 060774	Titan Student Union - South	Elevator	Storage Tank	Hydraulic Oil	71
State ID 103142	Titan Student Union - North	Elevator	Storage Tank	Hydraulic Oil	64
State ID 123731	Dorms - Acacia	Elevator	Storage Tank	Hydraulic Oil	124
State ID 123732	Dorms - Birch	Elevator	Storage Tank	Hydraulic Oil	97
State ID 089039	Dorms - Cypress	Elevator	Storage Tank	Hydraulic Oil	47
State ID 157655	Dorms - Elm	Elevator	Storage Tank	Hydraulic Oil	152
State ID 157653	Dorms - Elm	Elevator	Storage Tank	Hydraulic Oil	165
State ID 157653	Dorms - Fig	Elevator	Storage Tank	Hydraulic Oil	161
State ID 157654	Dorms - Fig	Elevator	Storage Tank	Hydraulic Oil	159
State ID 157651	Dorms - Holly	Elevator	Storage Tank	Hydraulic Oil	167
State ID 157652	Dorms - Holly	Elevator	Storage Tank	Hydraulic Oil	141
State ID 157617	Dorms - Juniper	Elevator	Storage Tank	Hydraulic Oil	133
State ID 157618	Dorms - Juniper	Elevator	Storage Tank	Hydraulic Oil	219
State ID 123773	Dorms - Manzanita	Elevator	Storage Tank	Hydraulic Oil	97
State ID 123734	Dorm - Oak	Elevator	Storage Tank	Hydraulic Oil	90
State ID 157619	Dorms - Pine	Elevator	Storage Tank	Hydraulic Oil	141
State ID 157620	Dorms - Pine	Elevator	Storage Tank	Hydraulic Oil	241
State ID 089038	Dorms - Sycamore	Elevator	Storage Tank	Hydraulic Oil	47
State ID 089037	Dorms - Valencia	Elevator	Storage Tank	Hydraulic Oil	53
State ID 123735	Dorms - Willow	Elevator	Storage Tank	Hydraulic Oil	96
State ID 132373	PA North	Elevator	Storage Tank	Hydraulic Oil	105
State ID 134374	PA South	Elevator	Storage Tank	Hydraulic Oil	70
State ID 040635	PA (OLD)	Elevator	Storage Tank	Hydraulic Oil	99
State ID 148645	SGMH - Mihaylo Hall	Elevator	Storage Tank	Hydraulic Oil	116
State ID 103057	Sports Complex	Elevator	Storage Tank	Hydraulic Oil	77
State ID 049044	Visual Arts D	Elevator	Storage Tank	Hydraulic Oil	140
State ID 065728	Visual Arts E	Elevator	Storage Tank	Hydraulic Oil	34
State ID 123320	Baseball Field	Elevator	Storage Tank	Hydraulic Oil	29
State ID 045171	Bookstore - Freight	Elevator	Storage Tank	Hydraulic Oil	67
State ID 107439	Bokstore - Pgr	Elevator	Storage Tank	Hydraulic Oil	70
State ID 103479	Dan Black Hall	Elevator	Storage Tank	Hydraulic Oil	82
State ID 103480	Dan Black Hall	Elevator	Storage Tank	Hydraulic Oil	61
State ID 132700	Kinesiology	Elevator	Storage Tank	Hydraulic Oil	109
State ID 132766	Kinesiology	Elevator	Storage Tank	Hydraulic Oil	97
State ID 072628	Kinesiology	Elevator	Storage Tank	Hydraulic Oil	35
State ID 113228	Library South	Elevator	Storage Tank	Hydraulic Oil	90

Appendix C

Interview Documentation

WAYNE PERRY, INC.
Environmental Remediation, Construction and Consulting

August 29, 2016

Ms. Pearl Boelter
California State University Fullerton
Environmental Health and Safety
800 North State College Boulevard
Fullerton, California 92831

SUBJECT: PRELIMINARY HEALTH RISK ASSESSMENT
ELEVATOR HYDRAULIC OIL RELEASE
CALIFORNIA STATE UNIVERSITY FULLERTON
RESIDENCE HALLS - ELM BUILDING
WPI PROJECT: 16.399

Dear Ms. Boelter;

Wayne Perry, Inc. (WPI), is submitting this report providing results from soil sampling activities and a preliminary health risk assessment conducted in response to a release of hydraulic oil from the California State University Fullerton (CSUF) Elm Building elevator system. The CSUF Elm Building (herein referred to as the "Site"), is located at 800 North State College Boulevard in Fullerton, California. The Site location is shown on **Figure 1**.

Background

The current elevator hydraulic system at the Site consists of two 134 gallon above ground storage tanks (ASTs) containing hydraulic oil and approximately 75 feet of associated underground piping that extend from each AST (located in the Elevator Mechanical Room) to elevator shafts 1 and 2. Main features of the elevator hydraulic system are shown on the plot plan provided as **Figure 2**. It is estimated that approximately 152 gallons of hydraulic oil was released from the underground piping associated with elevator two.

Hydraulic oil is the medium used to transfer power in hydraulic machinery. Most hydraulic fluids are based on mineral oil or water, and have zero compressibility. Hydraulic oil is not

8281 Commonwealth Ave. Buena Park, California 90621 Phone (714) 826-0352 (800) 883-0352 Fax (714) 523-7880

classified as a hazardous chemical, and is not a carcinogen. There are many different types of hydraulic oils that have been formulated for specific uses, e.g., earth moving equipment, aircraft systems, etc. A Material Safety Data Sheet (MSDS) for typical hydraulic oil is provided in **Appendix A**.

Local Geology and Hydrogeology

Local stratigraphy in the Site area generally consists of fine to coarse grained sand, silty sand sandy silt and silty sand to depths of approximately 135 feet. Depth to groundwater in the Site vicinity is approximately 115 feet.

SOIL SAMPLE COLLECTION

Pre-Field Activities: These included the following:

- Preparation of a Site specific Health and Safety Plan;
- Scheduling subcontractors;
- Marking the proposed drilling locations; and
- Notifying Underground Service Alert (USA) and performing an underground utility clearance for the planned drilling locations.

The hydraulic oil piping runs beneath the floor of the central corridor connecting the northern and southern residence halls of the Site. As shown on **Figure 2**, seven sample locations (PP-1 through PP-7) were evenly spaced between the elevator mechanical room and the two elevator shafts. The hydraulic oil piping was visually located in the elevator shaft and confirmed with ground penetrating radar technology to be 3 feet below the concrete floor.

Utility Clearance: Overlying concrete was removed by core drilling. The second location to be core drilled (PP-2) struck and severed a live electrical line within the concrete slab. Following this incident, WPI and the utility locator contractor conducted an investigation to determine why the electrical line was not identified by the subsurface utility clearance. Two technologies were used to identify electrical utilities – line tracing and ground penetrating radar. Of these, the most reliable is line tracing, which uses an electronic signal applied to utility to trace its location. However, the investigation found that the electrical line was grounded to rebar within the concrete, water lines and gas lines. All of these are conductive and carried the tracing signal. This created excessive signal noise, and the utilities were interpreted as rebar within the concrete. The ground penetrating radar was unable to differentiate between rebar and the electrical line because it was poured into the concrete slab and appeared as rebar.

Documents provided by CSUF showing proposed utilities at the building indicated a single utility corridor running from the stairwell to the hallway, providing no reason to doubt findings from the utility locating effort.

After the investigation was completed, the remaining sampling locations were shifted away from the electrical line and core drilling was completed without further incident.

Soil Sampling Activities: Five soil samples were collected from depths of approximately 4 to 10 feet. These depths correspond to depths of one to seven feet below the hydraulic oil piping.

Due to utility conflicts it was not possible to obtain 5 and 10 foot samples from borings PP-2 through PP-7. However, samples were collected at 4 feet from borings PP-4, PP-6 and PP-7. Samples below the hydraulic oil piping were not possible in borings PP-2, PP-3 and PP-5 due to utility conflicts at 3 feet.

Soil samples were collected using a hand auger. Following collection, samples were immediately labeled, recorded on a chain-of-custody document, and placed in a cooler chilled with crushed ice.

All sampling equipment was washed with an approved non-phosphate detergent and water, double-rinsed, and air dried prior to sample collection and between sampling locations. Soil sampling activities and report generation were conducted under the supervision of a California Professional Geologist.

Analytical Test Methods: Soil samples were delivered to Eurofins Calscience Environmental Laboratory (an independent California certified analytical laboratory) in Garden Grove, California, and analyzed for the following constituents using the indicated laboratory methods:

- Total petroleum hydrocarbons as oil (TPH-O) using EPA Method 8015M;
- Volatile organic compounds (VOCs) using EPA Method 8260B; and
- Title 22 metals using EPA Methods 6010B and 7471A.

Results: Boring logs were maintained for each sample location. Underlying sediments generally consisted of fine to coarse grained silty sand. Copies of the boring logs are provided as **Appendix B**. Tabulated soil analytical data is provided as **Table 1**.

Organic Analyses: Results from the organic analyses are summarized below. The sample number includes the depth, for example sample PP-1d10 was obtained from a depth of 10 feet.

Sample	TPH-O (mg/Kg)	VOCs (µg/Kg)
PP-1d5	<25	<50
PP-1d10	<25	<50
PP-4d4	**45** HD	<50
PP-6d4	**39,000** HD	<50
PP-7d4	**44,000** HD	**63**

mg/Kg = milligrams per kilogram, equivalent to parts per million
µg/Kg = micrograms per kilogram, equivalent to parts per billion
HD = The chromatographic pattern was inconsistent with the profile of the reference fuel standard.

With the exception of PP-7d4,VOCs were not detected in any of the soil samples. 4-Methyl-2-Pentanone, also known as methyl isobutyl ketone (MIBK), was detected at a concentration of 63 µg/Kg in soil sample PP-7d4. This chemical is not associated with hydraulic oil, and may be a laboratory contaminant or a remnant from building construction. It is not a recognized carcinogen. The MSDS for MIBK is provided in **Appendix A**.

TPH-O was detected in soil samples PP-4d4, PP-6d4 and PP-7d4 at concentrations of 45, 39,000 and 44,000 mg/Kg, respectively. Hydraulic oil is relatively immobile in the environment.

Metal Analyses: A slightly elevated lead concentration of 19.8 mg/Kg was detected in soil sample PP-4d4. This is well below its Soluble Threshold Limit Concentration (STLC) of 50 mg/Kg. Other metals detected in the soil samples included arsenic, barium, cadmium, chromium, cobalt, copper, molybdenum, nickel, vanadium and zinc. All detections were at low concentrations consistent with naturally occurring metals. Copies of the laboratory reports and chain-of-custody form are provided as **Appendix C**.

Release Location: The highest concentration of TPH-O was detected in the 4-foot sample located adjacent to elevator shaft 2, and concentrations appear to attenuate towards the north. This suggests that the release occurred near elevator shaft 2. The limited sampling conducted by WPI was not sufficient to assess the lateral or vertical extent of impact.

PRELIMINARY HEALTH RISK ASSESSMENT

The primary chemical of concern at the Site is hydraulic fluid. The hydraulic oil MSDS provided in **Appendix A** indicates that hydraulic oil consists of 70 to 90 percent by weight of hydro-treated distillates, 10 to 20 percent highly refined mineral oil and 0.1 to 1 percent 2,6-di-tert-butylphenol. The density of hydraulic oil is approximately 0.88 kg/L. The estimated volume of the release is 152 gallons, or about 575.4 liters, equivalent to a mass of about 506.4 kilograms (Kgs). Based on the weight percentages provided above, this represents an approximate mass of 405 Kgs of hydro-treated distillates, 96 Kgs of highly refined mineral oil, and about 5 Kgs of 2,6-di-tert-butylphenol. The 2,6-di-tert-butylphenol is colorless crystalline solid with low toxicity and is without published exposure limits. It is commonly added to hydraulic oil to prevent oxidation, and it is a negligible portion of the hydraulic oil mixture. The MSDS for 2,6-di-tert-butylphenol is in **Appendix A**.

MIBK was detected in sample PP-7d4 at a concentration of 63 µg/Kg. MIBK is a colorless, tasteless, odorless liquid, commonly used as a solvent. It is not a component of hydraulic fluid and is thought to be either a laboratory contaminant or a remnant from building construction.

Risk Evaluation: The United States Environmental Protection Agency (USEPA) Regional Screening Level (RSL) calculator was used to evaluate the potential risk to human health posed by these chemicals in residential soils. The most conservative assumptions were used for each evaluation. The hydro-treated distillates and mineral oil were modeled at the highest detected concentration of 44,000 mg/Kg.

Chemical exposure can occur by inhalation, ingestion, or adsorption. Ingestion and direct contact are not considered complete exposure pathways for Site occupants due to the depth of

impacted soil and the fact that the impacted soil is covered by concrete. Therefore (although these exposure routes were included in the RSL calculations), they are not considered in this preliminary risk evaluation.

Copies of the RSL risk calculations for hydro-treated distillates, mineral oils and MIBK are provide as **Appendix D**. The risk calculations include the acceptable risk values (less than 1.0E-06 for carcinogenic risk and less than 1 for non-carcinogenic risks) and a list of the variables used. The carcinogenic and non-carcinogenic risk associated with each exposure pathway and the cumulative carcinogenic and non-carcinogenic risks are provided at the end of each sheet. For convenience, these are summarized below. As a further conservative measure, only risks pertaining to a child (the most sensitive receptor) were used.

Chemical	Inhalation Risk	
	Non-Carcinogenic	Carcinogenic
Hydro-Treated Distillates (modeled as Naphtha)	3.10E-04	--
Mineral Oil	--	--
MIBK	1.91E-06	--
Cumulative Risk	3.12E-04	--
Acceptable Risk	1	1.0E-06

Results from this evaluation indicate that the leaked hydraulic oil does not pose an unacceptable carcinogenic or non-carcinogenic inhalation health risk to Site occupants.

Utility workers may come into contact with impacted soil during soil excavation for piping removal. However, potential exposure can be mitigated through the use of engineering controls and appropriate personal protective equipment.

Environmental Risk

Oils are relatively immobile in the environment, and the lateral distribution of oil in subsurface soils is likely limited. This is somewhat substantiated by the decrease in TPH-O concentrations with increasing distance to the north from elevator shaft 2.

Current groundwater monitoring data, associated with open Santa Ana Regional Water Quality Control Board case number 083003521T (located near the northern CSUF campus at the intersection of Yorba Linda Boulevard and Associated Road), reports current groundwater depths of between 114 and 118 feet. Considering the limited volume of hydraulic oil released and the approximate depth to groundwater it is very unlikely that the release has, or will, impact groundwater.

Conclusions and Recommendations

Results of the soil sample analyses identified high concentrations of hydraulic oil at a depth of 4 feet near elevator shafts 1 and 2. Significant concentrations of VOCs and Title 22 metals were not detected.

Ingestion and direct contact are not considered complete exposure pathways for Site occupants due to the depth of impacted soil and the fact that the impacted soil is covered by concrete. Risk calculations using the most conservative assumptions and the highest detected concentrations of TPH-O modeled as naphtha and mineral oil determined that an unacceptable inhalation risk to Site occupants did not exist. Based on these results, no further actions related to human health and environmental risks at the CSUF – Elm building are recommended.

Workers performing the hydraulic system piping removal and replacement may come into contact with impacted soil. It is recommended that these workers wear appropriate personal protective equipment, including air purifying respiratory protection when working in confined areas near either elevator shaft. If an excavation is opened within the structure, fans should be used to provide additional ventilation in the elevator shaft areas.

Soils removed from the excavation should be placed in DOT drums for disposal at an appropriate off-site facility. Each drum should be sampled, sealed and labeled. The drum samples should be analyzed for TPH-O by modified EPA Method 8015. Results from these analyses should be used to select appropriate disposal/recycling options.

WARRANTY STATEMENT

This report has been prepared by WPI for the exclusive use of California State University Fullerton as it pertains to the Elm Building located at 800 North State College Boulevard Fullerton, California. Our professional services have been performed using that degree of care and skill ordinarily exercised under similar circumstances by other geologists, hydrogeologists, and engineers practicing in this field. No other warranty, express or implied, is made as to the professional advice in this report.

If you have any questions regarding this report, please contact Mr. Robert Deamer of WPI at (714) 826-0352.

Respectfully submitted,
WAYNE PERRY, INC.

Robert Deamer
Project Geologist

Eric Floyd
California Professional Geologist 7520

REGISTERED LICENSED GEOLOGIST
ERIC D. FLOYD
Exp 12/16
NO. 7520
STATE OF CALIFORNIA

Attachments:

Table 1	Soil Analytical Data
Figure 1	Site Location Map
Figure 2	Plot Plan
Appendix A	MSDSs
Appendix B	Boring Logs
Appendix C	Laboratory Report and Chain-of-Custody Documentation
Appendix D	USEPA Regional Screening Level Risk Calculations

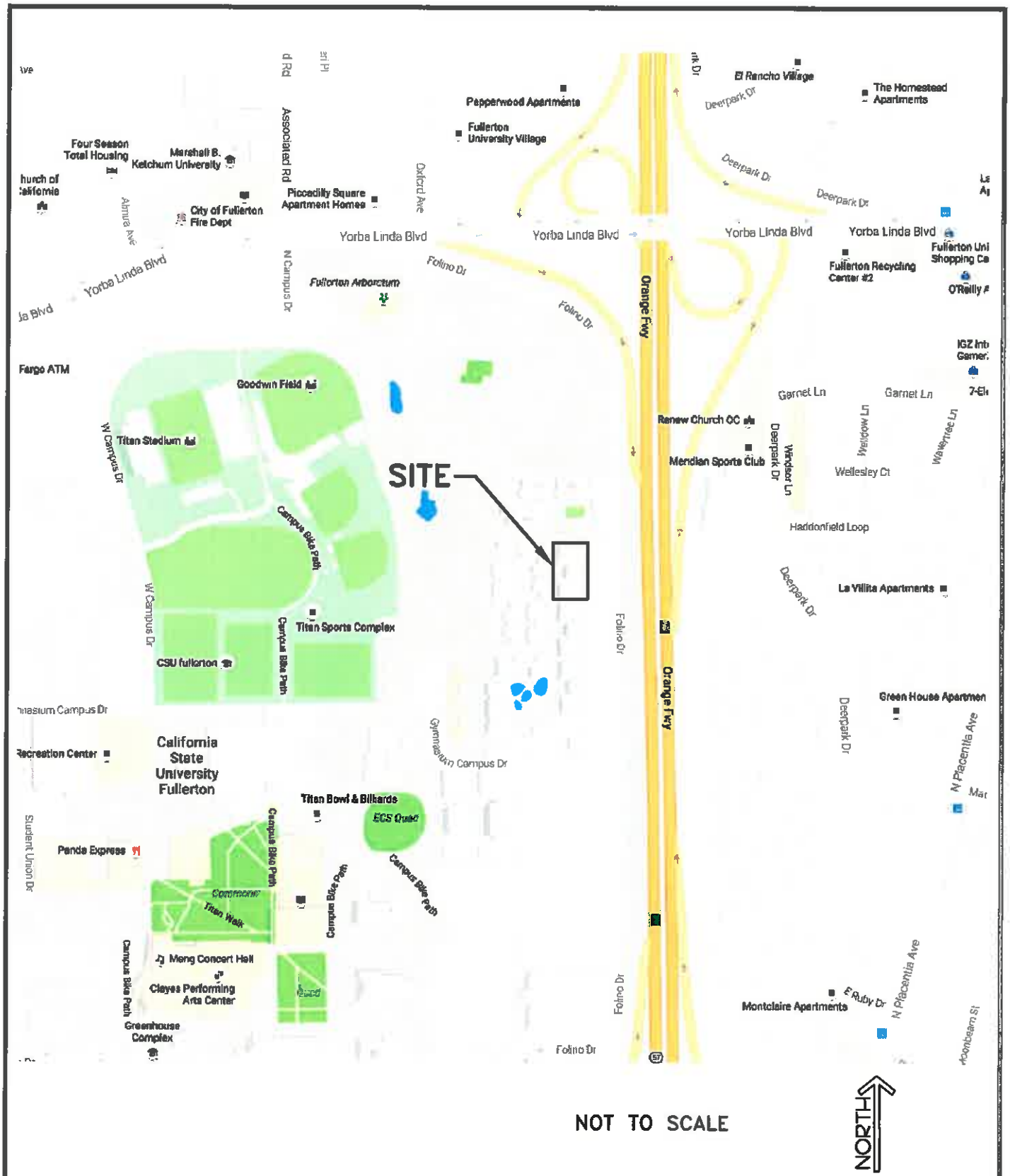
TABLE

TABLE 1
SOIL ANALYTICAL DATA
CALIFORNIA STATE UNIVERISTY OF FULLERTON - ELM BUILDING
800 State College Blvd.
Fullerton, California

Boring ID and Depth (feet)	VOC's µg/Kg	TPH-O mg/Kg	Antimony mg/Kg	Arsenic mg/Kg	Barium mg/Kg	Beryllium mg/Kg	Cadmium mg/Kg	Chromium mg/Kg	Cobalt mg/Kg	Copper mg/Kg	Lead mg/Kg	Mercury mg/Kg	Molybdenum mg/Kg	Nickel mg/Kg	Selenium mg/Kg	Silver mg/Kg	Thallium mg/Kg	Vanadium mg/Kg	Zinc mg/Kg	Comments
PP-1	08/10/16																			
5	ND	ND<25	ND<0.769	13.7	107	ND<0.256	1.14	12.7	5.53	8.51	6.32	ND<0.0820	2.49	13.2	ND<0.769	ND<0.256	ND<0.769	28.1	44.1	
10	ND	ND<25	ND<0.714	3	128	0.359	1.63	16.5	6.61	12.3	2.76	ND<0.0877	3.55	19.7	ND<0.714	ND<0.238	ND<0.714	35	46.9	
PP-4	8/11/2016																			
4	ND	45 HD	ND<0.781	28.3	100	ND<0.260	1.32	17.2	8.97	24.2	19.8	ND<0.0806	2.09	14.3	ND<0.781	0.853	ND<0.781	32.1	74.2	
PP-6	8/11/2016																			
4	ND	39000 HD	ND<0.781	12.1	107	0.271	1.45	17.2	7.5	13.8	9.92	ND<0.0806	2.91	18	ND<0.781	ND<0.260	ND<0.781	37.2	59.7	
PP-7	8/11/2016																			
4	63	44000 HD	ND<0.769	4.29	107	0.289	1.44	16	6.6	12.5	3.41	ND<0.0833	2.97	19.1	ND<0.769	ND<0.256	ND<0.769	35.4	58.5	

Notes:
ND - Not detected (less than reporting limit)

FIGURES



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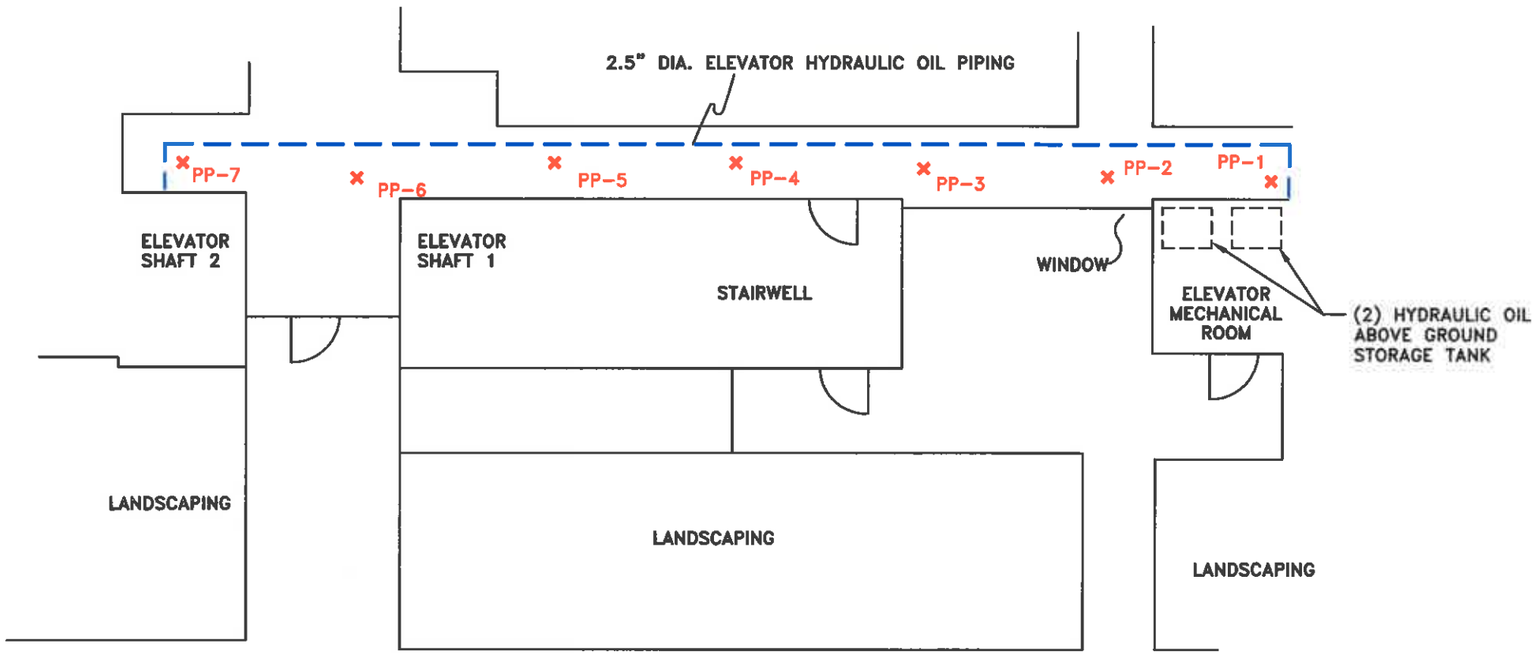
WaynePerry SINCE 1968	DATE	SITE LOCATION MAP	FIGURE NO. 1
	REVISED	CSUF – ELM BUILDING 800 NORTH STATE COLLEGE BLVD. FULLERTON, CA.	
	CAD FILE 16399–01		PROJECT NO. 16.399



LEGEND

PP-7 ✖ SAMPLE LOCATION AND IDENTIFICATION (APPROXIMATE LOCATIONS)

0 10 FEET
SCALE

WaynePerry SINCE 1968	DATE	PLOT PLAN	FIGURE NO. 2
	REVISED	CSUF – ELM BUILDING 800 N. STATE COLLEGE BLVD. FULLERTON, CA.	
	CAD FILE 16399-01		PROJECT NO. 16.399

APPENDIX A

MATERIAL SAFETY DATA SHEETS

Safety Data Sheet

SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

Chevron Hydraulic Oil 5606A

Product Use: Hydraulic Oil
Product Number(s): 247707
Company Identification
Chevron Products Company
a division of Chevron U.S.A. Inc.
6001 Bollinger Canyon Rd.
San Ramon, CA 94583
United States of America
www.chevronlubricants.com

Transportation Emergency Response
CHEMTREC: (800) 424-9300 or (703) 527-3887
Health Emergency
Chevron Emergency Information Center: Located in the USA. International collect calls accepted. (800) 231-0623 or (510) 231-0623
Product Information
email : lubemsds@chevron.com
Product Information: 1 (800) 582-3835, LUBETEK@chevron.com

SECTION 2 HAZARDS IDENTIFICATION

CLASSIFICATION: Flammable liquid: Category 4. Aspiration toxicant: Category 1. Acute aquatic toxicant: Category 3. Chronic aquatic toxicant: Category 3.

Signal Word: Danger

Physical Hazards: Combustible liquid.
Health Hazards: May be fatal if swallowed and enters airways.

Environmental Hazards: Harmful to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENTS:
Prevention: Keep away from heat/sparks/open flames/hot surfaces. -- No smoking. Wear protective gloves/protective clothing/eye protection/face protection. Avoid release to the environment.
Response: IF SWALLOWED: Immediately call a poison center or doctor/physician. Do NOT induce vomiting. In case of fire: Use media specified in the SDS to extinguish.
Storage: Store in a well-ventilated place. Keep cool. Store locked up.
Disposal: Dispose of contents/container in accordance with applicable local/regional/national/international regulations.

HAZARDS NOT OTHERWISE CLASSIFIED: Not Applicable

SECTION 3 COMPOSITION/ INFORMATION ON INGREDIENTS

COMPONENTS	CAS NUMBER	AMOUNT
Distillates, hydrotreated light	64742-47-8	70 - 90 %weight
Highly refined mineral oil (C15 - C50)	Mixture	10 - 20 %weight
2,6-DI-TERT-BUTYLPHENOL	128-39-2	0.1 - 1 %weight

SECTION 4 FIRST AID MEASURES

Description of first aid measures
Eye: No specific first aid measures are required. As a precaution, remove contact lenses, if worn, and flush eyes with water.
Skin: Wash skin with water immediately and remove contaminated clothing and shoes. Get medical attention if any symptoms develop. To remove the material from skin, use soap and water. Discard contaminated clothing and shoes or thoroughly clean before reuse.
Ingestion: If swallowed, get immediate medical attention. Do not induce vomiting. Never give anything by mouth to an unconscious person.
Inhalation: No specific first aid measures are required. If exposed to excessive levels of material in the air, move the exposed person to fresh air. Get medical attention if coughing or respiratory discomfort occurs.

Most important symptoms and effects, both acute and delayed
IMMEDIATE SYMPTOMS AND HEALTH EFFECTS
Eye: Not expected to cause prolonged or significant eye irritation.
Skin: Skin contact may cause drying or defatting of the skin. Contact with the skin is not expected to cause an allergic skin response. Symptoms may include pain, itching, discoloration, swelling, and blistering. Not expected to be harmful to internal organs if absorbed through the skin. High-Pressure Equipment Information: Accidental high-velocity injection under the skin of materials of this type may result in serious injury. Seek medical attention at once should an accident like this occur. The initial wound at the injection site may not appear to be serious at first; but, if left untreated, could result in disfigurement or amputation of the affected part.

Ingestion: Because of its low viscosity, this material can directly enter the lungs, if swallowed, or if subsequently vomited. Once in the lungs it is very difficult to remove and can cause severe injury or death.
Inhalation: Not expected to be harmful if inhaled. Contains a petroleum-based mineral oil. May cause respiratory irritation or other pulmonary effects following prolonged or repeated inhalation of oil mist at airborne levels above the recommended mineral oil mist exposure limit. Symptoms of respiratory irritation

may include coughing and difficulty breathing.

DELAYED OR OTHER SYMPTOMS AND HEALTH EFFECTS: Not classified.

Indication of any immediate medical attention and special treatment needed
Note to Physicians: Ingestion of this product or subsequent vomiting may result in aspiration of light hydrocarbon liquid, which may cause pneumonitis. In an accident involving high-pressure equipment, this product may be injected under the skin. Such an accident may result in a small, sometimes bloodless, puncture wound. However, because of its driving force, material injected into a fingertip can be deposited into the palm of the hand. Within 24 hours, there is usually a great deal of swelling, discoloration, and intense throbbing pain. Immediate treatment at a surgical emergency center is recommended.

SECTION 5 FIRE FIGHTING MEASURES

Leaks/ruptures in high pressure system using materials of this type can create a fire hazard when in the vicinity of ignition sources (eg. open flame, pilot lights, sparks, or electric arcs). See Section 7 for proper handling and storage.

EXTINGUISHING MEDIA: Use water fog, foam, dry chemical or carbon dioxide (CO_2) to extinguish flames.

PROTECTION OF FIRE FIGHTERS:
Fire Fighting Instructions: For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment, including self-contained breathing apparatus.
Combustion Products: Highly dependent on combustion conditions. A complex mixture of airborne solids, liquids, and gases including carbon monoxide, carbon dioxide, and unidentified organic compounds will be evolved when this material undergoes combustion.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Protective Measures: Eliminate all sources of ignition in the vicinity of the spill or released vapor. If this material is released into the work area, evacuate the area immediately. Monitor area with combustible gas indicator.
Spill Management: Stop the source of the release if you can do it without risk. Contain release to prevent further contamination of soil, surface water or groundwater. Clean up spill as soon as possible, observing precautions in Exposure Controls/Personal Protection. Use appropriate techniques such as applying non-combustible absorbent materials or pumping. All equipment used when handling the product must be grounded. A vapor suppressing foam may be used to reduce vapors. Use clean non-sparking tools to collect absorbed material. Where feasible and appropriate, remove contaminated soil. Place contaminated materials in disposable containers and dispose of in a manner consistent with applicable regulations.
Reporting: Report spills to local authorities as appropriate or required.

SECTION 7 HANDLING AND STORAGE

Precautionary Measures: Do not get in eyes, on skin, or on clothing. Liquid evaporates and forms vapor (fumes) which can catch fire and burn with explosive force. Invisible vapor spreads easily and can be set on fire by many sources such as pilot lights, welding equipment, and electrical motors and switches. Fire hazard is greater as liquid temperature rises above 29C (85F).
DO NOT USE IN HIGH PRESSURE SYSTEMS in the vicinity of flames, sparks and hot surfaces. Use only in well ventilated areas. Keep container closed.
Do not taste or swallow. Wash thoroughly after handling.
General Storage Information:DO NOT USE OR STORE near heat, sparks, flames, or hot surfaces . USE

AND STORE ONLY IN WELL VENTILATED AREA. Keep container closed when not in use.
General Handling Information: Avoid contaminating soil or releasing this material into sewage and drainage systems and bodies of water.
Static Hazard: Electrostatic charge may accumulate and create a hazardous condition when handling this material. To minimize this hazard, bonding and grounding may be necessary but may not, by themselves, be sufficient. Review all operations which have the potential of generating and accumulating an electrostatic charge and/or a flammable atmosphere (including tank and container filling, splash filling, tank cleaning, sampling, gauging, switch loading, filtering, mixing, agitation, and vacuum truck operations) and use appropriate mitigating procedures. For more information, refer to OSHA Standard 29 CFR 1910.106, 'Flammable and Combustible Liquids', National Fire Protection Association (NFPA 77, 'Recommended Practice on Static Electricity', and/or the American Petroleum Institute (API) Recommended Practice 2003, 'Protection Against Ignitions Arising Out of Static, Lightning, and Stray Currents'.
Container Warnings: Container is not designed to contain pressure. Do not use pressure to empty container or it may rupture with explosive force. Empty containers retain product residue (solid, liquid, and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition. They may explode and cause injury or death. Empty containers should be completely drained, properly closed, and promptly returned to a drum reconditioner or disposed of properly.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

GENERAL CONSIDERATIONS:
Consider the potential hazards of this material (see Section 3), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.

ENGINEERING CONTROLS:
Use in a well-ventilated area.

PERSONAL PROTECTIVE EQUIPMENT
Eye/Face Protection: No special eye protection is normally required. Where splashing is possible, wear safety glasses with side shields as a good safety practice.
Skin Protection: Wear protective clothing to prevent skin contact. Selection of protective clothing may include gloves, apron, boots, and complete facial protection depending on operations conducted. Suggested materials for protective gloves include: 4H (PE/EVAL), Nitrile Rubber, Silver Shield, Viton.
Respiratory Protection: No respiratory protection is normally required. Air-Purifying Respirator for Organic Vapors.
If user operations generate an oil mist, determine if airborne concentrations are below the occupational exposure limit for mineral oil mist. If not, wear an approved respirator that provides adequate protection from the measured concentrations of this material. For air-purifying respirators use a particulate cartridge. Use a positive pressure air-supplying respirator in circumstances where air-purifying respirators may not provide adequate protection.

Occupational Exposure Limits:

Component	Agency	TWA	STEL	Ceiling	Notation
Distillates, hydrotreated light	ACGIH	200 mg/m3	--	--	Skin A3 Total

					hydrocabon vapor
Highly refined mineral oil (C15 - C50)	ACGIH	5 mg/m3	10 mg/m3	--	--
Highly refined mineral oil (C15 - C50)	OSHA Z-1	5 mg/m3	--	--	--
2,6-DI-TERT-BUTYLPHENOL	Not Applicable	--	--	--	--

Consult local authorities for appropriate values.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Attention: the data below are typical values and do not constitute a specification.

Color: Red
Physical State: Liquid
Odor: Petroleum odor
Odor Threshold: No data available
pH: Not Applicable
Vapor Pressure: <0.01 mmHg @ 37.8 °C (100 °F)
Vapor Density (Air = 1): >4
Initial Boiling Point: 207.2°C (405°F)
Solubility: Soluble in hydrocarbons; insoluble in water
Freezing Point: Not Applicable
Melting Point: Not Applicable
Specific Gravity: 0.86 kg/l - 0.9 kg/l @ 15°C (59°F)
Density: 0.86 kg/l - 0.9 kg/l @ 15°C (59°F)
Viscosity: 13.2 mm2/s @ 40°C (104°F) Minimum
Coefficient of Therm. Expansion / °F: Not Applicable
Evaporation Rate: No data available
Decomposition temperature: No Data Available
Octanol/Water Partition Coefficient: No data available

FLAMMABLE PROPERTIES:
Flammability (solid, gas): No Data Available

Flashpoint: (Pensky-Martens Closed Cup) 80 °C (176 °F) Minimum
Autoignition: No data available
Flammability (Explosive) Limits (% by volume in air): Lower: Not Applicable Upper: Not Applicable

SECTION 10 STABILITY AND REACTIVITY

Reactivity: This material is not expected to react.
Chemical Stability: This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
Incompatibility With Other Materials: Not applicable
Hazardous Decomposition Products: None known (None expected)
Hazardous Polymerization: Hazardous polymerization will not occur.

SECTION 11 TOXICOLOGICAL INFORMATION

Information on toxicological effects
Serious Eye Damage/Irritation: The eye irritation hazard is based on evaluation of data for product components.

Skin Corrosion/Irritation: The skin irritation hazard is based on evaluation of data for product components.

Skin Sensitization: The skin sensitization hazard is based on evaluation of data for product components.

Acute Dermal Toxicity: The acute dermal toxicity hazard is based on evaluation of data for product components.

Acute Oral Toxicity: The acute oral toxicity hazard is based on evaluation of data for product components.

Acute Inhalation Toxicity: The acute inhalation toxicity hazard is based on evaluation of data for product components.

Acute Toxicity Estimate: Not Determined

Germ Cell Mutagenicity: The hazard evaluation is based on data for components or a similar material.

Carcinogenicity: The hazard evaluation is based on data for components or a similar material.

Reproductive Toxicity: The hazard evaluation is based on data for components or a similar material.

Specific Target Organ Toxicity - Single Exposure: The hazard evaluation is based on data for components or a similar material.

Specific Target Organ Toxicity - Repeated Exposure: The hazard evaluation is based on data for components or a similar material.

ADDITIONAL TOXICOLOGY INFORMATION:
This product contains petroleum base oils which may be refined by various processes including severe solvent extraction, severe hydrocracking, or severe hydrotreating. None of the oils requires a cancer warning under the OSHA Hazard Communication Standard (29 CFR 1910.1200). These oils have not been listed in the National Toxicology Program (NTP) Annual Report nor have they been classified by the International Agency for Research on Cancer (IARC) as; carcinogenic to humans (Group 1), probably carcinogenic to humans (Group 2A), or possibly carcinogenic to humans (Group 2B).
These oils have not been classified by the American Conference of Governmental Industrial Hygienists (ACGIH) as: confirmed human carcinogen (A1), suspected human carcinogen (A2), or confirmed animal carcinogen with unknown relevance to humans (A3).

SECTION 12 ECOLOGICAL INFORMATION

ECOTOXICITY
This material is expected to be harmful to aquatic organisms and may cause long-term adverse effects in the aquatic environment. The ecotoxicity hazard is based on an evaluation of data for the components or a similar material. The product has not been tested. The statement has been derived from the properties of the individual components.

MOBILITY
No data available.

PERSISTENCE AND DEGRADABILITY
This material is not expected to be readily biodegradable. The biodegradability of this material is based on an evaluation of data for the components or a similar material.The product has not been tested. The statement has been derived from the properties of the individual components.

POTENTIAL TO BIOACCUMULATE
Bioconcentration Factor: No data available.
Octanol/Water Partition Coefficient: No data available

SECTION 13 DISPOSAL CONSIDERATIONS

Use material for its intended purpose or recycle if possible. Oil collection services are available for used oil recycling or disposal. Place contaminated materials in containers and dispose of in a manner consistent with applicable regulations. Contact your sales representative or local environmental or health authorities for approved disposal or recycling methods.

SECTION 14 TRANSPORT INFORMATION

The description shown may not apply to all shipping situations. Consult 49CFR, or appropriate Dangerous Goods Regulations, for additional description requirements (e.g., technical name) and mode-specific or quantity-specific shipping requirements.

DOT Shipping Description: UN1268, PETROLEUM PRODUCTS, N.O.S., COMBUSTIBLE LIQUID, III ; ADDITIONAL INFORMATION: NON-BULK PACKAGES ARE NOT REGULATED IN THE USA. SEE 173.150 (F) FOR SPECIAL PROVISIONS FOR VESSEL AND AIRCRAFT

IMO/IMDG Shipping Description: NOT REGULATED AS DANGEROUS GOODS FOR TRANSPORTATION UNDER THE IMDG CODE

ICAO/IATA Shipping Description: NOT REGULATED AS DANGEROUS GOODS UNDER THE ICAO TI / IATA DGR CODE

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code:
Not applicable

SECTION 15 REGULATORY INFORMATION

EPCRA 311/312 CATEGORIES:

1.	Immediate (Acute) Health Effects:	YES
2.	Delayed (Chronic) Health Effects:	NO
3.	Fire Hazard:	YES
4.	Sudden Release of Pressure Hazard:	NO
5.	Reactivity Hazard:	NO

REGULATORY LISTS SEARCHED:
01-1=IARC Group 1 03=EPCRA 313

01-2A=IARC Group 2A	04=CA Proposition 65
01-2B=IARC Group 2B	05=MA RTK
02=NTP Carcinogen	06=NJ RTK
	07=PA RTK

No components of this material were found on the regulatory lists above.

CHEMICAL INVENTORIES:
All components comply with the following chemical inventory requirements: AICS (Australia), DSL (Canada), ENCS (Japan), IECSC (China), KECI (Korea), PICCS (Philippines), TSCA (United States).

NEW JERSEY RTK CLASSIFICATION:
Under the New Jersey Right-to-Know Act L. 1983 Chapter 315 N.J.S.A. 34:5A-1 et. seq., the product is to be identified as follows: PETROLEUM OIL (Hydraulic oil)

SECTION 16 OTHER INFORMATION

NFPA RATINGS: Health: 0 Flammability: 2 Reactivity: 0

HMIS RATINGS: Health: 1 Flammability: 2 Reactivity: 0
(0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme, PPE:- Personal Protection Equipment Index recommendation, *- Chronic Effect Indicator). These values are obtained using the guidelines or published evaluations prepared by the National Fire Protection Association (NFPA) or the National Paint and Coating Association (for HMIS ratings).

LABEL RECOMMENDATION:
Label Category : INDUSTRIAL OIL 4 - IND4, COMBUSTIBLE 1 - COM1

REVISION STATEMENT: This revision updates the following sections of this Safety Data Sheet: 2,5,14,16
Revision Date: JULY 21, 2014

ABBREVIATIONS THAT MAY HAVE BEEN USED IN THIS DOCUMENT:

TLV - Threshold Limit Value	TWA - Time Weighted Average
STEL - Short-term Exposure Limit	PEL - Permissible Exposure Limit
GHS - Globally Harmonized System	CAS - Chemical Abstract Service Number
ACGIH - American Conference of Governmental Industrial Hygienists	IMO/IMDG - International Maritime Dangerous Goods Code
API - American Petroleum Institute	SDS - Safety Data Sheet
HMIS - Hazardous Materials Information System	NFPA - National Fire Protection Association (USA)
DOT - Department of Transportation (USA)	NTP - National Toxicology Program (USA)
IARC - International Agency for Research on Cancer	OSHA - Occupational Safety and Health Administration
NCEL - New Chemical Exposure Limit	EPA - Environmental Protection Agency
SCBA - Self-Contained Breathing Apparatus	

Prepared according to the 29 CFR 1910.1200 (2012) by Chevron Energy Technology Company, 6001

Bollinger Canyon Road San Ramon, CA 94583.

The above information is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the date hereof may suggest modifications of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.

ScienceLab.com
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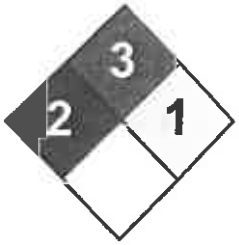

Health	2
Fire	3
Reactivity	0
Personal Protection	H

Material Safety Data Sheet
Methyl isobutyl ketone MSDS

Section 1: Chemical Product and Company Identification

Product Name: Methyl isobutyl ketone

Catalog Codes: SLM3412

CAS#: 108-10-1

RTECS: SA9275000

TSCA: TSCA 8(b) inventory: Methyl isobutyl ketone

CI#: Not available.

Synonym: 4-Methyl-2-pentanone

Chemical Formula: C6H12O

Contact Information:

Sciencelab.com, Inc.
14025 Smith Rd.
Houston, Texas 77396

US Sales: **1-800-901-7247**
International Sales: **1-281-441-4400**

Order Online: ScienceLab.com

CHEMTREC (24HR Emergency Telephone), call: 1-800-424-9300

International CHEMTREC, call: 1-703-527-3887

For non-emergency assistance, call: 1-281-441-4400

Section 2: Composition and Information on Ingredients

Composition:

Name	CAS #	% by Weight
Methyl isobutyl ketone	108-10-1	100

Toxicological Data on Ingredients: Methyl isobutyl ketone: ORAL (LD50): Acute: 1600 mg/kg [Guinea pig]. 2671 mg/kg [Mouse]. 2080 mg/kg [Rat]. DERMAL (LD50): Acute: 20001 mg/kg [Rabbit]. VAPOR (LC50): Acute: 8000 ppm 4 hour(s) [Rat].

Section 3: Hazards Identification

Potential Acute Health Effects:
Very hazardous in case of eye contact (irritant), of ingestion, of inhalation. Hazardous in case of skin contact (irritant, permeator). Inflammation of the eye is characterized by redness, watering, and itching.

Potential Chronic Health Effects:
CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. The substance is toxic to lungs, the nervous system, mucous membranes. Repeated or prolonged exposure to the substance can produce target organs damage.

Section 4: First Aid Measures

Eye Contact:

Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used. Do not use an eye ointment. Seek medical attention.

Skin Contact:
After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. Cold water may be used. Cover the irritated skin with an emollient. If irritation persists, seek medical attention. Wash contaminated clothing before reusing.

Serious Skin Contact:
Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical attention.

Inhalation: Allow the victim to rest in a well ventilated area. Seek immediate medical attention.

Serious Inhalation:
Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek medical attention.

Ingestion:
Do not induce vomiting. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible indication that the toxic material was ingested; the absence of such signs, however, is not conclusive. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.

Serious Ingestion: Not available.

Section 5: Fire and Explosion Data

Flammability of the Product: Flammable.

Auto-Ignition Temperature: 460°C (860°F)

Flash Points: CLOSED CUP: 14°C (57.2°F). OPEN CUP: 23°C (73.4°F).

Flammable Limits: LOWER: 1.4% UPPER: 7.5%

Products of Combustion: These products are carbon oxides (CO, CO2).

Fire Hazards in Presence of Various Substances: Flammable in presence of open flames and sparks.

Explosion Hazards in Presence of Various Substances:
Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.

Fire Fighting Media and Instructions:
Flammable liquid, soluble or dispersed in water. SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use alcohol foam, water spray or fog.

Special Remarks on Fire Hazards: Not available.

Special Remarks on Explosion Hazards: Not available.

Section 6: Accidental Release Measures

Small Spill:
Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container.

Large Spill:
Flammable liquid. Keep away from heat. Keep away from sources of ignition. Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material. Do not touch spilled material. Prevent entry into sewers, basements or confined areas; dike if needed. Eliminate all ignition sources. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

Section 7: Handling and Storage

Precautions:
Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/ vapour/spray. In case of insufficient ventilation, wear suitable respiratory equipment If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes

Storage:
Flammable materials should be stored in a separate safety storage cabinet or room. Keep away from heat. Keep away from sources of ignition. Keep container tightly closed. Keep in a cool, well-ventilated place. Ground all equipment containing material. A refrigerated room would be preferable for materials with a flash point lower than 37.8°C (100°F).

Section 8: Exposure Controls/Personal Protection

Engineering Controls:
Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Personal Protection:
Splash goggles. Lab coat. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

Personal Protection in Case of a Large Spill:
Splash goggles. Full suit. Vapor respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits:
TWA: 50 STEL: 75 CEIL: 125 (ppm) from ACGIH (TLV) [1995] TWA: 205 STEL: 300 CEIL: 510 (mg/m3) from ACGIH [1995]
Consult local authorities for acceptable exposure limits.

Section 9: Physical and Chemical Properties

Physical state and appearance: Liquid.

Odor: Not available.

Taste: Not available.

Molecular Weight: 100.16 g/mole

Color: Not available.

pH (1% soln/water): Not available.

Boiling Point: 115.9°C (240.6°F)

Melting Point: -84°C (-119.2°F)

Critical Temperature: Not available.

Specific Gravity: 0.802 (Water = 1)

Vapor Pressure: 15.7 mm of Hg (@ 20°C)

Vapor Density: 3.45 (Air = 1)

Volatility: Not available.

Odor Threshold: 0.1 ppm

Water/Oil Dist. Coeff.: The product is equally soluble in oil and water; log(oil/water) = 0.1

Ionicity (in Water): Not available.

Dispersion Properties: See solubility in water.

Solubility: Partially soluble in cold water.

Section 10: Stability and Reactivity Data

Stability: The product is stable.

Instability Temperature: Not available.

Conditions of Instability: Not available.

Incompatibility with various substances: Not available.

Corrosivity: Not available.

Special Remarks on Reactivity: Forms explosive peroxides on prolonged storage.

Special Remarks on Corrosivity: Not available.

Polymerization: No.

Section 11: Toxicological Information

Routes of Entry: Dermal contact. Eye contact. Inhalation. Ingestion.

Toxicity to Animals:
WARNING: THE LC50 VALUES HEREUNDER ARE ESTIMATED ON THE BASIS OF A 4-HOUR EXPOSURE. Acute oral toxicity (LD50): 1600 mg/kg [Guinea pig]. Acute dermal toxicity (LD50): 20001 mg/kg [Rabbit]. Acute toxicity of the vapor (LC50): 8000 ppm 4 hour(s) [Rat].

Chronic Effects on Humans: The substance is toxic to lungs, the nervous system, mucous membranes.

Other Toxic Effects on Humans:
Very hazardous in case of ingestion, of inhalation. Hazardous in case of skin contact (irritant, permeator).

Special Remarks on Toxicity to Animals: Not available.

Special Remarks on Chronic Effects on Humans: Passes through the placental barrier in human.

Special Remarks on other Toxic Effects on Humans: Not available.

Section 12: Ecological Information

Ecotoxicity: Not available.

BOD5 and COD: Not available.

Products of Biodegradation:
Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: The products of degradation are less toxic than the product itself.

Special Remarks on the Products of Biodegradation: Not available.

Section 13: Disposal Considerations

Waste Disposal:

Section 14: Transport Information

DOT Classification: Class 3: Flammable liquid.

Identification: : Methyl isobutyl ketone : UN1245 PG: II

Special Provisions for Transport: Not available.

Section 15: Other Regulatory Information

Federal and State Regulations:
Pennsylvania RTK: Methyl isobutyl ketone Massachusetts RTK: Methyl isobutyl ketone TSCA 8(b) inventory: Methyl isobutyl ketone SARA 313 toxic chemical notification and release reporting: Methyl isobutyl ketone CERCLA: Hazardous substances.: Methyl isobutyl ketone

Other Regulations: OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

Other Classifications:

WHMIS (Canada): CLASS B-2: Flammable liquid with a flash point lower than 37.8°C (100°F).

DSCL (EEC):
R11- Highly flammable. R38- Irritating to skin. R41- Risk of serious damage to eyes.

HMIS (U.S.A.):

Health Hazard: 2

Fire Hazard: 3

Reactivity: 0

Personal Protection: h

National Fire Protection Association (U.S.A.):

Health: 2

Flammability: 3

Reactivity: 1

Specific hazard:

Protective Equipment:
Gloves. Lab coat. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate. Splash goggles.

Section 16: Other Information

References: Not available.

Other Special Considerations: Not available.

Created: 10/10/2005 08:40 PM

Last Updated: 05/21/2013 12:00 PM

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Chemicals & Laboratory Equipment

Health	2
Fire	1
Reactivity	0
Personal Protection	E

Material Safety Data Sheet
2,6-Ditert-butylphenol MSDS

Section 1: Chemical Product and Company Identification

Product Name: 2,6-Ditert-butylphenol

Catalog Codes: SLD2173

CAS#: 128-39-2

RTECS: SK8265000

TSCA: TSCA 8(b) inventory: 2,6-Ditert-butylphenol

CI#: Not available.

Synonym:

Chemical Name: Not available.

Chemical Formula: C14H13O

Contact Information:

Sciencelab.com, Inc.
14025 Smith Rd.
Houston, Texas 77396

US Sales: **1-800-901-7247**
International Sales: **1-281-441-4400**

Order Online: ScienceLab.com

CHEMTREC (24HR Emergency Telephone), call: 1-800-424-9300

International CHEMTREC, call: 1-703-527-3887

For non-emergency assistance, call: 1-281-441-4400

Section 2: Composition and Information on Ingredients

Composition:

Name	CAS #	% by Weight
{2,6-}Di{tert-}butylphenol	128-39-2	100

Toxicological Data on Ingredients: 2,6-Ditert-butylphenol: ORAL (LD50): Acute: 9200 mg/kg [Rat]. DERMAL (LD50): Acute: 10000 mg/kg [Rabbit].

Section 3: Hazards Identification

Potential Acute Health Effects:
Hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion. Slightly hazardous in case of skin contact (permeator), of inhalation (lung irritant).

Potential Chronic Health Effects:
CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. Repeated or prolonged exposure is not known to aggravate medical condition.

Section 4: First Aid Measures

Eye Contact: Check for and remove any contact lenses. Do not use an eye ointment. Seek medical attention.

Skin Contact:
After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. Cover the irritated skin with an emollient. If irritation persists, seek medical attention. Wash contaminated clothing before reusing.

Serious Skin Contact:
Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek medical attention.

Inhalation: Allow the victim to rest in a well ventilated area. Seek immediate medical attention.

Serious Inhalation: Not available.

Ingestion:
Do not induce vomiting. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.

Serious Ingestion: Not available.

Section 5: Fire and Explosion Data

Flammability of the Product: May be combustible at high temperature.

Auto-Ignition Temperature: Not available.

Flash Points: Not available.

Flammable Limits: Not available.

Products of Combustion: These products are carbon oxides (CO, CO2).

Fire Hazards in Presence of Various Substances: Not available.

Explosion Hazards in Presence of Various Substances:
Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.

Fire Fighting Media and Instructions:
SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

Special Remarks on Fire Hazards: Not available.

Special Remarks on Explosion Hazards: Not available.

Section 6: Accidental Release Measures

Small Spill:
Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

Large Spill:
Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

Section 7: Handling and Storage

Precautions:
Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not ingest. Do not breathe dust. Wear suitable protective clothing If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes

Storage:

Keep container dry. Keep in a cool place. Ground all equipment containing material. Keep container tightly closed. Keep in a cool, well-ventilated place. Combustible materials should be stored away from extreme heat and away from strong oxidizing agents.

Section 8: Exposure Controls/Personal Protection

Engineering Controls:
Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal Protection:
Splash goggles. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

Personal Protection in Case of a Large Spill:
Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits: Not available.

Section 9: Physical and Chemical Properties

Physical state and appearance: Solid. (Crystalline solid.)

Odor: Practically odorless

Taste: Not available.

Molecular Weight: 206.33 g/mole

Color: Not available.

pH (1% soln/water): Not applicable.

Boiling Point: 253°C (487.4°F)

Melting Point: 36°C (96.8°F)

Critical Temperature: Not available.

Specific Gravity: 0.92 (Water = 1)

Vapor Pressure: Not applicable.

Vapor Density: Not available.

Volatility: Not available.

Odor Threshold: Not available.

Water/Oil Dist. Coeff.: Not available.

Ionicity (in Water): Not available.

Dispersion Properties: Not available.

Solubility: Insoluble in cold water.

Section 10: Stability and Reactivity Data

Stability: The product is stable.

Instability Temperature: Not available.

Conditions of Instability: Not available.

Incompatibility with various substances: Not available.

Corrosivity: Non-corrosive in presence of glass.

Special Remarks on Reactivity: Not available.

Special Remarks on Corrosivity: Not available.

Polymerization: No.

Section 11: Toxicological Information

Routes of Entry: Eye contact. Ingestion.

Toxicity to Animals:
Acute oral toxicity (LD50): 9200 mg/kg [Rat]. Acute dermal toxicity (LD50): 10000 mg/kg [Rabbit].

Chronic Effects on Humans: Not available.

Other Toxic Effects on Humans:
Hazardous in case of skin contact (irritant), of ingestion. Slightly hazardous in case of skin contact (permeator), of inhalation (lung irritant).

Special Remarks on Toxicity to Animals: Not available.

Special Remarks on Chronic Effects on Humans: Not available.

Special Remarks on other Toxic Effects on Humans: Not available.

Section 12: Ecological Information

Ecotoxicity: Not available.

BOD5 and COD: Not available.

Products of Biodegradation:
Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: The products of degradation are more toxic.

Special Remarks on the Products of Biodegradation: Not available.

Section 13: Disposal Considerations

Waste Disposal:

Section 14: Transport Information

DOT Classification: Not a DOT controlled material (United States).

Identification: Not applicable.

Special Provisions for Transport: Not applicable.

Section 15: Other Regulatory Information

Federal and State Regulations:

TSCA 8(b) inventory: 2,6-Ditert-butylphenol SARA 302/304 emergency planning and notification: 2,6-Ditert-butylphenol CERCLA: Hazardous substances.: 2,6-Ditert-butylphenol: 1000 lbs. (453.6 kg)

Other Regulations: Not available..

Other Classifications:

WHMIS (Canada): Not controlled under WHMIS (Canada).

DSCL (EEC): R36/38- Irritating to eyes and skin.

HMIS (U.S.A.):

Health Hazard: 2

Fire Hazard: 1

Reactivity: 0

Personal Protection: E

National Fire Protection Association (U.S.A.):

Health: 2

Flammability: 1

Reactivity: 0

Specific hazard:

Protective Equipment:
Gloves. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Splash goggles.

Section 16: Other Information

References: Not available.

Other Special Considerations: Not available.

Created: 10/09/2005 05:07 PM

Last Updated: 05/21/2013 12:00 PM

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APPENDIX B

BORING LOGS

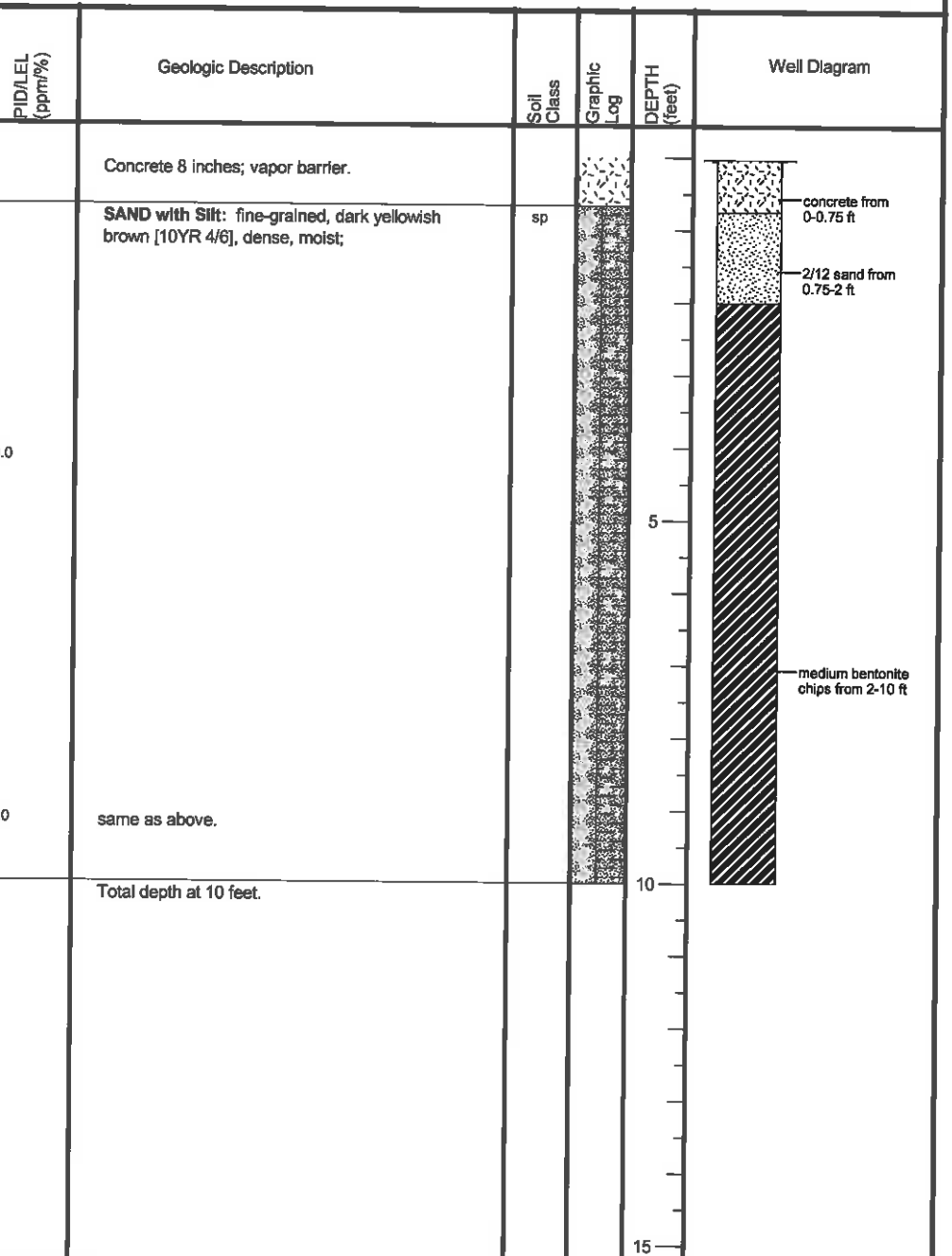
WAYNE PERRY, INC.
8281 Commonwealth Avenue
Buena Park, California 90621
(714) 826-0352
www.wpinc.com

Log of Boring/Well PP-1

PROJECT: *Cal State University Fullerton - Elm Building*	SURFACE ELEVATION: *N/A*
LOCATION: *800 N. State College Blvd, Fullerton, CA*	TOTAL DEPTH: *10 feet* / BORING DIAMETER: *3.5 inches*
PROJECT NO.: *16.399*	DEPTH TO FIRST SATURATION: *N/A*
DATE BEGAN: *8/10/16* FINISHED: *8/11/16*	TOP OF WELL CASING ELEVATION: *N/A*
DRILLING COMPANY: *Wayne Perry, Inc.*	STATIC GW ELEVATION: *N/A* DATE: *N/A*
DRILLING METHOD: *Hand Auger*	LOGGED BY: *R. Deamer* CHECKED BY: *D. Henry*

This log is a representation of subsurface conditions at the time and place of drilling. With the passage of time or at any other location, there may be consequential changes in conditions.

DEPTH (feet)	Samples	Sample I.D.	Time	Blow Counts (per 6 inches)	PID/LEL (ppm/%)	Geologic Description	Soil Class
						Concrete 8 inches; vapor barrier.	
						SAND with Silt: fine-grained, dark yellowish brown [10YR 4/6], dense, moist;	sp
		PP-1d5	0815	N/A	0.0		
5							
		PP-1d10	0800	N/A	0.0	same as above.	
10						Total depth at 10 feet.	
15							



Remarks/Notes: PID used: MiniRae 2000

WAYNE PERRY, INC.
8281 Commonwealth Avenue
Buena Park, California 90621
(714) 826-0352
www.wpinc.com

Log of Boring/Well PP-4

PROJECT: *Cal State University Fullerton - Elm Building*	SURFACE ELEVATION: *N/A*
LOCATION: *800 N. State College Blvd, Fullerton, CA*	TOTAL DEPTH: *4 feet* / BORING DIAMETER: *3.5 inches*
PROJECT NO.: *16.399*	DEPTH TO FIRST SATURATION: *N/A*
DATE BEGAN: *8/11/16* FINISHED: *8/11/16*	TOP OF WELL CASING ELEVATION: *N/A*
DRILLING COMPANY: *Wayne Perry, Inc.*	STATIC GW ELEVATION: *N/A* DATE: *N/A*
DRILLING METHOD: *Hand Auger*	LOGGED BY: *R. Deamer* CHECKED BY: *D. Henry*

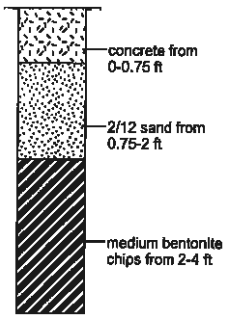
This log is a representation of subsurface conditions at the time and place of drilling. With the passage of time or at any other location, there may be consequential changes in conditions.

DEPTH (feet)	Samples	Sample I.D.	Time	Blow Counts (per 6 inches)	PID/LEL (ppm/%)	Geologic Description	Soil Class
						Concrete 8 inches; vapor barrier.	
						SAND with Silt: fine- to coarse-grained, dark grayish brown [10YR 4/2], medium dense, moist.	sp
		PP-4d4	1000	N/A	0.0		
						Total depth at 4 feet.	
5							
10							
15							

Graphic Log

DEPTH (feet): 5, 10, 15

Well Diagram



Remarks/Notes: PID used: MiniRae 2000

WAYNE PERRY, INC.
8281 Commonwealth Avenue
Buena Park, California 90621
(714) 826-0352
www.wpinc.com

Log of Boring/Well PP-6

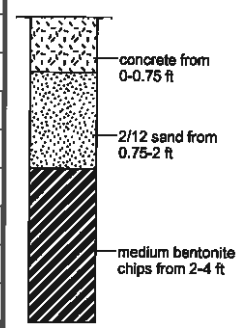
PROJECT: *Cal State University Fullerton - Elm Building*	SURFACE ELEVATION: *N/A*
LOCATION: *800 N. State College Blvd, Fullerton, CA*	TOTAL DEPTH: *4 feet* / BORING DIAMETER: *3.5 inches*
PROJECT NO.: *16.399*	DEPTH TO FIRST SATURATION: *N/A*
DATE BEGAN: *8/11/16* FINISHED: *8/11/16*	TOP OF WELL CASING ELEVATION: *N/A*
DRILLING COMPANY: *Wayne Perry, Inc.*	STATIC GW ELEVATION: *N/A* DATE: *N/A*
DRILLING METHOD: *Hand Auger*	LOGGED BY: *R. Deamer* CHECKED BY: *D. Henry*

This log is a representation of subsurface conditions at the time and place of drilling. With the passage of time or at any other location, there may be consequential changes in conditions.

DEPTH (feet)	Samples	Sample I.D.	Time	Blow Counts (per 6 inches)	PID/LEL (ppm/%)	Geologic Description	Soil Class
						Concrete 8 inches; vapor barrier.	
						Silty SAND: fine-grained, dark yellowish brown [10YR 4/6], medium dense, moist.	sm
		PP-6d4	1115	N/A	1.9		
						Total depth at 4 feet.	
5							
10							
15							

Graphic Log

Well Diagram



Remarks/Notes: PID used: MiniRae 2000

WAYNE PERRY, INC.
8281 Commonwealth Avenue
Buena Park, California 90621
(714) 826-0352
www.wpinc.com

Log of Boring/Well PP-7

PROJECT: *Cal State University Fullerton - Elm Building*	SURFACE ELEVATION: *N/A*
LOCATION: *800 N. State College Blvd, Fullerton, CA*	TOTAL DEPTH: *4 feet* / BORING DIAMETER: *3.5 inches*
PROJECT NO.: *16.399*	DEPTH TO FIRST SATURATION: *N/A*
DATE BEGAN: *8/11/16* FINISHED: *8/11/16*	TOP OF WELL CASING ELEVATION: *N/A*
DRILLING COMPANY: *Wayne Perry, Inc.*	STATIC GW ELEVATION: *N/A* DATE: *N/A*
DRILLING METHOD: *Hand Auger*	LOGGED BY: *R. Deamer* CHECKED BY: *D. Henry*

This log is a representation of subsurface conditions at the time and place of drilling. With the passage of time or at any other location, there may be consequential changes in conditions.

DEPTH (feet)	Samples	Sample I.D.	Time	Blow Counts (per 6 inches)	PID/LEL (ppm/%)	Geologic Description	Soil Class	Graphic Log	DEPTH (feet)	Well Diagram
						Concrete 8 inches; vapor barrier.				concrete from 0-0.75 ft
						Silty SAND: fine- to coarse-grained, dark grayish brown [10YR 4/2], medium dense, moist; hydrocarbon odor.	sm			2/12 sand from 0.75-2 ft
		PP-7d4	1145	N/A	4.9					medium bentonite chips from 2-4 ft
						Total depth at 4 feet.				
5									5	
10									10	
15									15	

Remarks/Notes: PID used: MiniRae 2000

APPENDIX C

LABORATORY REPORT AND CHAIN-OF-CUSTODY FORM

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WORK ORDER NUMBER: 16-08-0890

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Wayne Perry, Inc.

Client Project Name: CSUF / 800 State College Blvd. Fullerton, CA

Attention: Robert Deamer
8281 Commonwealth Avenue
Buena Park, CA 90621-2537

Approved for release on 08/19/2016 by:
Xuan Dang
Project Manager

ResultLink ›

Email your PM ›

Eurofins Calscience, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

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Work Order Number: 16-08-0890

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Work Order Narrative

Work Order: 16-08-0890

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 08/11/16. They were assigned to Work Order 16-08-0890.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

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Sample Summary

Client:	Wayne Perry, Inc. 8281 Commonwealth Avenue Buena Park, CA 90621-2537	Work Order:	16-08-0890
		Project Name:	CSUF / 800 State College Blvd. Fullerton, CA
		PO Number:	16.399
		Date/Time Received:	08/11/16 17:22
		Number of Containers:	5
Attn:	Robert Deamer		

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
PP-1d5	16-08-0890-1	08/10/16 08:15	1	Solid
PP-1d10	16-08-0890-2	08/11/16 08:00	1	Solid
PP-4d4	16-08-0890-3	08/11/16 10:00	1	Solid
PP-6d4	16-08-0890-4	08/11/16 11:15	1	Solid
PP-7d4	16-08-0890-5	08/11/16 11:45	1	Solid

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Detections Summary

Client:	Wayne Perry, Inc. 8281 Commonwealth Avenue Buena Park, CA 90621-2537	Work Order:	16-08-0890
		Project Name:	CSUF / 800 State College Blvd. Fullerton, CA
		Received:	08/11/16
Attn:	Robert Deamer		

Client SampleID Analyte	Result	Qualifiers	RL	Units	Method	Extraction
PP-1d5 (16-08-0890-1)						
Arsenic	13.7		0.769	mg/kg	EPA 6010B	EPA 3050B
Barium	107		0.513	mg/kg	EPA 6010B	EPA 3050B
Cadmium	1.14		0.513	mg/kg	EPA 6010B	EPA 3050B
Chromium	12.7		0.256	mg/kg	EPA 6010B	EPA 3050B
Cobalt	5.53		0.256	mg/kg	EPA 6010B	EPA 3050B
Copper	8.51		0.513	mg/kg	EPA 6010B	EPA 3050B
Lead	6.32		0.513	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	2.49		0.256	mg/kg	EPA 6010B	EPA 3050B
Nickel	13.2		0.256	mg/kg	EPA 6010B	EPA 3050B
Vanadium	28.1		0.256	mg/kg	EPA 6010B	EPA 3050B
Zinc	44.1		1.03	mg/kg	EPA 6010B	EPA 3050B
PP-1d10 (16-08-0890-2)						
Arsenic	3.00		0.714	mg/kg	EPA 6010B	EPA 3050B
Barium	128		0.476	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.359		0.238	mg/kg	EPA 6010B	EPA 3050B
Cadmium	1.63		0.476	mg/kg	EPA 6010B	EPA 3050B
Chromium	16.5		0.238	mg/kg	EPA 6010B	EPA 3050B
Cobalt	6.61		0.238	mg/kg	EPA 6010B	EPA 3050B
Copper	12.3		0.476	mg/kg	EPA 6010B	EPA 3050B
Lead	2.76		0.476	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	3.55		0.238	mg/kg	EPA 6010B	EPA 3050B
Nickel	19.7		0.238	mg/kg	EPA 6010B	EPA 3050B
Vanadium	35.0		0.238	mg/kg	EPA 6010B	EPA 3050B
Zinc	46.9		0.952	mg/kg	EPA 6010B	EPA 3050B
PP-4d4 (16-08-0890-3)						
Arsenic	28.3		0.781	mg/kg	EPA 6010B	EPA 3050B
Barium	100		0.521	mg/kg	EPA 6010B	EPA 3050B
Cadmium	1.32		0.521	mg/kg	EPA 6010B	EPA 3050B
Chromium	17.2		0.260	mg/kg	EPA 6010B	EPA 3050B
Cobalt	8.97		0.260	mg/kg	EPA 6010B	EPA 3050B
Copper	24.2		0.521	mg/kg	EPA 6010B	EPA 3050B
Lead	19.8		0.521	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	2.09		0.260	mg/kg	EPA 6010B	EPA 3050B
Nickel	14.3		0.260	mg/kg	EPA 6010B	EPA 3050B
Silver	0.853		0.260	mg/kg	EPA 6010B	EPA 3050B
Vanadium	32.1		0.260	mg/kg	EPA 6010B	EPA 3050B
Zinc	74.2		1.04	mg/kg	EPA 6010B	EPA 3050B
TPH as Motor Oil	45	HD	25	mg/kg	EPA 8015B (M)	EPA 3550B

* MDL is shown

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Detections Summary

Client:	Wayne Perry, Inc. 8281 Commonwealth Avenue Buena Park, CA 90621-2537	Work Order:	16-08-0890
		Project Name:	CSUF / 800 State College Blvd. Fullerton, CA
		Received:	08/11/16
Attn:	Robert Deamer		

Client SampleID Analyte	Result	Qualifiers	RL	Units	Method	Extraction
PP-6d4 (16-08-0890-4)						
Arsenic	12.1		0.781	mg/kg	EPA 6010B	EPA 3050B
Barium	107		0.521	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.271		0.260	mg/kg	EPA 6010B	EPA 3050B
Cadmium	1.45		0.521	mg/kg	EPA 6010B	EPA 3050B
Chromium	17.2		0.260	mg/kg	EPA 6010B	EPA 3050B
Cobalt	7.50		0.260	mg/kg	EPA 6010B	EPA 3050B
Copper	13.8		0.521	mg/kg	EPA 6010B	EPA 3050B
Lead	9.92		0.521	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	2.91		0.260	mg/kg	EPA 6010B	EPA 3050B
Nickel	18.0		0.260	mg/kg	EPA 6010B	EPA 3050B
Vanadium	37.2		0.260	mg/kg	EPA 6010B	EPA 3050B
Zinc	59.7		1.04	mg/kg	EPA 6010B	EPA 3050B
TPH as Motor Oil	39000	HD	1300	mg/kg	EPA 8015B (M)	EPA 3550B
PP-7d4 (16-08-0890-5)						
Arsenic	4.29		0.769	mg/kg	EPA 6010B	EPA 3050B
Barium	107		0.513	mg/kg	EPA 6010B	EPA 3050B
Beryllium	0.289		0.256	mg/kg	EPA 6010B	EPA 3050B
Cadmium	1.44		0.513	mg/kg	EPA 6010B	EPA 3050B
Chromium	16.0		0.256	mg/kg	EPA 6010B	EPA 3050B
Cobalt	6.60		0.256	mg/kg	EPA 6010B	EPA 3050B
Copper	12.5		0.513	mg/kg	EPA 6010B	EPA 3050B
Lead	3.41		0.513	mg/kg	EPA 6010B	EPA 3050B
Molybdenum	2.97		0.256	mg/kg	EPA 6010B	EPA 3050B
Nickel	19.1		0.256	mg/kg	EPA 6010B	EPA 3050B
Vanadium	35.4		0.256	mg/kg	EPA 6010B	EPA 3050B
Zinc	58.5		1.03	mg/kg	EPA 6010B	EPA 3050B
TPH as Motor Oil	44000	HD	2500	mg/kg	EPA 8015B (M)	EPA 3550B
4-Methyl-2-Pentanone	63		50	ug/kg	EPA 8260B	EPA 5030C

Subcontracted analyses, if any, are not included in this summary.

* MDL is shown

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Analytical Report

Wayne Perry, Inc.		Date Received:	08/11/16
8281 Commonwealth Avenue		Work Order:	16-08-0890
Buena Park, CA 90621-2537		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
		Units:	mg/kg
Project: CSUF / 800 State College Blvd. Fullerton, CA			Page 1 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
PP-1d5	**16-08-0890-1-A**	**08/10/16 08:15**	**Solid**	**GC 45**	**08/12/16**	**08/13/16 01:07**	**160812B03**

Parameter	Result	RL	DF	Qualifiers
TPH as Motor Oil	ND	25	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	93	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
PP-1d10	**16-08-0890-2-A**	**08/11/16 08:00**	**Solid**	**GC 45**	**08/12/16**	**08/13/16 00:51**	**160812B03**

Parameter	Result	RL	DF	Qualifiers
TPH as Motor Oil	ND	25	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	93	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
PP-4d4	**16-08-0890-3-A**	**08/11/16 10:00**	**Solid**	**GC 45**	**08/12/16**	**08/13/16 00:02**	**160812B03**

Parameter	Result	RL	DF	Qualifiers
TPH as Motor Oil	45	25	1.00	HD

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	96	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
PP-6d4	**16-08-0890-4-A**	**08/11/16 11:15**	**Solid**	**GC 45**	**08/12/16**	**08/15/16 17:18**	**160812B03**

Parameter	Result	RL	DF	Qualifiers
TPH as Motor Oil	39000	1300	50.0	HD

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	93	61-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
PP-7d4	**16-08-0890-5-A**	**08/11/16 11:45**	**Solid**	**GC 45**	**08/12/16**	**08/15/16 17:01**	**160812B03**

Parameter	Result	RL	DF	Qualifiers
TPH as Motor Oil	44000	2500	100	HD

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	91	61-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Wayne Perry, Inc.		Date Received:	08/11/16
8281 Commonwealth Avenue		Work Order:	16-08-0890
Buena Park, CA 90621-2537		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
		Units:	mg/kg
Project: CSUF / 800 State College Blvd. Fullerton, CA			Page 2 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-15-420-1932**	**N/A**	**Solid**	**GC 45**	**08/12/16**	**08/12/16 13:48**	**160812B03**

Parameter	Result	RL	DF	Qualifiers
TPH as Motor Oil	ND	25	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
n-Octacosane	89	61-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Wayne Perry, Inc.		Date Received:	08/11/16
8281 Commonwealth Avenue		Work Order:	16-08-0890
Buena Park, CA 90621-2537		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: CSUF / 800 State College Blvd. Fullerton, CA			Page 1 of 6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
PP-1d5	**16-08-0890-1-A**	**08/10/16 08:15**	**Solid**	**ICP 7300**	**08/15/16**	**08/16/16 14:54**	**160815L01**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.769	1.03	
Arsenic	13.7	0.769	1.03	
Barium	107	0.513	1.03	
Beryllium	ND	0.256	1.03	
Cadmium	1.14	0.513	1.03	
Chromium	12.7	0.256	1.03	
Cobalt	5.53	0.256	1.03	
Copper	8.51	0.513	1.03	
Lead	6.32	0.513	1.03	
Molybdenum	2.49	0.256	1.03	
Nickel	13.2	0.256	1.03	
Selenium	ND	0.769	1.03	
Silver	ND	0.256	1.03	
Thallium	ND	0.769	1.03	
Vanadium	28.1	0.256	1.03	
Zinc	44.1	1.03	1.03	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Wayne Perry, Inc.		Date Received:	08/11/16
8281 Commonwealth Avenue		Work Order:	16-08-0890
Buena Park, CA 90621-2537		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: CSUF / 800 State College Blvd. Fullerton, CA			Page 2 of 6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
PP-1d10	**16-08-0890-2-A**	**08/11/16 08:00**	**Solid**	**ICP 7300**	**08/15/16**	**08/16/16 14:57**	**160815L01**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.714	0.952	
Arsenic	3.00	0.714	0.952	
Barium	128	0.476	0.952	
Beryllium	0.359	0.238	0.952	
Cadmium	1.63	0.476	0.952	
Chromium	16.5	0.238	0.952	
Cobalt	6.61	0.238	0.952	
Copper	12.3	0.476	0.952	
Lead	2.76	0.476	0.952	
Molybdenum	3.55	0.238	0.952	
Nickel	19.7	0.238	0.952	
Selenium	ND	0.714	0.952	
Silver	ND	0.238	0.952	
Thallium	ND	0.714	0.952	
Vanadium	35.0	0.238	0.952	
Zinc	46.9	0.952	0.952	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Wayne Perry, Inc.		Date Received:	08/11/16
8281 Commonwealth Avenue		Work Order:	16-08-0890
Buena Park, CA 90621-2537		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: CSUF / 800 State College Blvd. Fullerton, CA			Page 3 of 6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
PP-4d4	**16-08-0890-3-A**	**08/11/16 10:00**	**Solid**	**ICP 7300**	**08/15/16**	**08/16/16 14:59**	**160815L01**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.781	1.04	
Arsenic	28.3	0.781	1.04	
Barium	100	0.521	1.04	
Beryllium	ND	0.260	1.04	
Cadmium	1.32	0.521	1.04	
Chromium	17.2	0.260	1.04	
Cobalt	8.97	0.260	1.04	
Copper	24.2	0.521	1.04	
Lead	19.8	0.521	1.04	
Molybdenum	2.09	0.260	1.04	
Nickel	14.3	0.260	1.04	
Selenium	ND	0.781	1.04	
Silver	0.853	0.260	1.04	
Thallium	ND	0.781	1.04	
Vanadium	32.1	0.260	1.04	
Zinc	74.2	1.04	1.04	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Wayne Perry, Inc.		Date Received:	08/11/16
8281 Commonwealth Avenue		Work Order:	16-08-0890
Buena Park, CA 90621-2537		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: CSUF / 800 State College Blvd. Fullerton, CA			Page 4 of 6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
PP-6d4	**16-08-0890-4-A**	**08/11/16 11:15**	**Solid**	**ICP 7300**	**08/15/16**	**08/16/16 15:00**	**160815L01**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.781	1.04	
Arsenic	12.1	0.781	1.04	
Barium	107	0.521	1.04	
Beryllium	0.271	0.260	1.04	
Cadmium	1.45	0.521	1.04	
Chromium	17.2	0.260	1.04	
Cobalt	7.50	0.260	1.04	
Copper	13.8	0.521	1.04	
Lead	9.92	0.521	1.04	
Molybdenum	2.91	0.260	1.04	
Nickel	18.0	0.260	1.04	
Selenium	ND	0.781	1.04	
Silver	ND	0.260	1.04	
Thallium	ND	0.781	1.04	
Vanadium	37.2	0.260	1.04	
Zinc	59.7	1.04	1.04	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Wayne Perry, Inc.		Date Received:	08/11/16
8281 Commonwealth Avenue		Work Order:	16-08-0890
Buena Park, CA 90621-2537		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: CSUF / 800 State College Blvd. Fullerton, CA			Page 5 of 6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
PP-7d4	**16-08-0890-5-A**	**08/11/16 11:45**	**Solid**	**ICP 7300**	**08/15/16**	**08/16/16 15:01**	**160815L01**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.769	1.03	
Arsenic	4.29	0.769	1.03	
Barium	107	0.513	1.03	
Beryllium	0.289	0.256	1.03	
Cadmium	1.44	0.513	1.03	
Chromium	16.0	0.256	1.03	
Cobalt	6.60	0.256	1.03	
Copper	12.5	0.513	1.03	
Lead	3.41	0.513	1.03	
Molybdenum	2.97	0.256	1.03	
Nickel	19.1	0.256	1.03	
Selenium	ND	0.769	1.03	
Silver	ND	0.256	1.03	
Thallium	ND	0.769	1.03	
Vanadium	35.4	0.256	1.03	
Zinc	58.5	1.03	1.03	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Wayne Perry, Inc.		Date Received:	08/11/16
8281 Commonwealth Avenue		Work Order:	16-08-0890
Buena Park, CA 90621-2537		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: CSUF / 800 State College Blvd. Fullerton, CA			Page 6 of 6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**097-01-002-23102**	**N/A**	**Solid**	**ICP 7300**	**08/15/16**	**08/16/16 13:58**	**160815L01**

Parameter	Result	RL	DF	Qualifiers
Antimony	ND	0.781	1.04	
Arsenic	ND	0.781	1.04	
Barium	ND	0.521	1.04	
Beryllium	ND	0.260	1.04	
Cadmium	ND	0.521	1.04	
Chromium	ND	0.260	1.04	
Cobalt	ND	0.260	1.04	
Copper	ND	0.521	1.04	
Lead	ND	0.521	1.04	
Molybdenum	ND	0.260	1.04	
Nickel	ND	0.260	1.04	
Selenium	ND	0.781	1.04	
Silver	ND	0.260	1.04	
Thallium	ND	0.781	1.04	
Vanadium	ND	0.260	1.04	
Zinc	ND	1.04	1.04	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Wayne Perry, Inc.
8281 Commonwealth Avenue
Buena Park, CA 90621-2537

Project: CSUF / 800 State College Blvd. Fullerton, CA

Date Received:	08/11/16
Work Order:	16-08-0890
Preparation:	EPA 7471A Total
Method:	EPA 7471A
Units:	mg/kg

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
PP-1d5	**16-08-0890-1-A**	**08/10/16 08:15**	**Solid**	**Mercury 05**	**08/15/16**	**08/16/16 12:42**	**160815L06**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0820	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
PP-1d10	**16-08-0890-2-A**	**08/11/16 08:00**	**Solid**	**Mercury 05**	**08/15/16**	**08/16/16 12:44**	**160815L06**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0877	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
PP-4d4	**16-08-0890-3-A**	**08/11/16 10:00**	**Solid**	**Mercury 05**	**08/15/16**	**08/16/16 12:46**	**160815L06**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0806	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
PP-6d4	**16-08-0890-4-A**	**08/11/16 11:15**	**Solid**	**Mercury 05**	**08/15/16**	**08/16/16 12:48**	**160815L06**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0806	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
PP-7d4	**16-08-0890-5-A**	**08/11/16 11:45**	**Solid**	**Mercury 05**	**08/15/16**	**08/16/16 12:51**	**160815L06**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0833	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-16-272-2424**	**N/A**	**Solid**	**Mercury 05**	**08/15/16**	**08/16/16 11:26**	**160815L06**

Parameter	Result	RL	DF	Qualifiers
Mercury	ND	0.0806	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Wayne Perry, Inc.		Date Received:	08/11/16
8281 Commonwealth Avenue		Work Order:	16-08-0890
Buena Park, CA 90621-2537		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/kg
Project: CSUF / 800 State College Blvd. Fullerton, CA			Page 1 of 21

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
PP-1d5	**16-08-0890-1-A**	**08/10/16 08:15**	**Solid**	**GC/MS W**	**08/11/16**	**08/12/16 19:38**	**160812L029**

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	120	1.00	
Benzene	ND	5.0	1.00	
Bromobenzene	ND	5.0	1.00	
Bromochloromethane	ND	5.0	1.00	
Bromodichloromethane	ND	5.0	1.00	
Bromoform	ND	5.0	1.00	
Bromomethane	ND	25	1.00	
2-Butanone	ND	50	1.00	
n-Butylbenzene	ND	5.0	1.00	
sec-Butylbenzene	ND	5.0	1.00	
tert-Butylbenzene	ND	5.0	1.00	
Carbon Disulfide	ND	50	1.00	
Carbon Tetrachloride	ND	5.0	1.00	
Chlorobenzene	ND	5.0	1.00	
Chloroethane	ND	5.0	1.00	
Chloroform	ND	5.0	1.00	
Chloromethane	ND	25	1.00	
2-Chlorotoluene	ND	5.0	1.00	
4-Chlorotoluene	ND	5.0	1.00	
Dibromochloromethane	ND	5.0	1.00	
1,2-Dibromo-3-Chloropropane	ND	9.9	1.00	
1,2-Dibromoethane	ND	5.0	1.00	
Dibromomethane	ND	5.0	1.00	
1,2-Dichlorobenzene	ND	5.0	1.00	
1,3-Dichlorobenzene	ND	5.0	1.00	
1,4-Dichlorobenzene	ND	5.0	1.00	
Dichlorodifluoromethane	ND	5.0	1.00	
1,1-Dichloroethane	ND	5.0	1.00	
1,2-Dichloroethane	ND	5.0	1.00	
1,1-Dichloroethene	ND	5.0	1.00	
c-1,2-Dichloroethene	ND	5.0	1.00	
t-1,2-Dichloroethene	ND	5.0	1.00	
1,2-Dichloropropane	ND	5.0	1.00	
1,3-Dichloropropane	ND	5.0	1.00	
2,2-Dichloropropane	ND	5.0	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Wayne Perry, Inc.	Date Received:	08/11/16
8281 Commonwealth Avenue	Work Order:	16-08-0890
Buena Park, CA 90621-2537	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/kg
Project: CSUF / 800 State College Blvd. Fullerton, CA		Page 2 of 21

Parameter	Result	RL	DF	Qualifiers
1,1-Dichloropropene	ND	5.0	1.00	
c-1,3-Dichloropropene	ND	5.0	1.00	
t-1,3-Dichloropropene	ND	5.0	1.00	
Ethylbenzene	ND	5.0	1.00	
2-Hexanone	ND	50	1.00	
Isopropylbenzene	ND	5.0	1.00	
p-Isopropyltoluene	ND	5.0	1.00	
Methylene Chloride	ND	50	1.00	
4-Methyl-2-Pentanone	ND	50	1.00	
Naphthalene	ND	50	1.00	
n-Propylbenzene	ND	5.0	1.00	
Styrene	ND	5.0	1.00	
1,1,1,2-Tetrachloroethane	ND	5.0	1.00	
1,1,2,2-Tetrachloroethane	ND	5.0	1.00	
Tetrachloroethene	ND	5.0	1.00	
Toluene	ND	5.0	1.00	
1,2,3-Trichlorobenzene	ND	9.9	1.00	
1,2,4-Trichlorobenzene	ND	5.0	1.00	
1,1,1-Trichloroethane	ND	5.0	1.00	
1,1,2-Trichloroethane	ND	5.0	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	50	1.00	
Trichloroethene	ND	5.0	1.00	
1,2,3-Trichloropropane	ND	5.0	1.00	
1,2,4-Trimethylbenzene	ND	5.0	1.00	
Trichlorofluoromethane	ND	50	1.00	
1,3,5-Trimethylbenzene	ND	5.0	1.00	
Vinyl Acetate	ND	50	1.00	
Vinyl Chloride	ND	5.0	1.00	
p/m-Xylene	ND	5.0	1.00	
o-Xylene	ND	5.0	1.00	
Xylenes (total)	ND	5.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.0	1.00	
Tert-Butyl Alcohol (TBA)	ND	50	1.00	
Diisopropyl Ether (DIPE)	ND	9.9	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	9.9	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	9.9	1.00	
Ethanol	ND	250	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Wayne Perry, Inc.	Date Received:	08/11/16
8281 Commonwealth Avenue	Work Order:	16-08-0890
Buena Park, CA 90621-2537	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/kg
Project: CSUF / 800 State College Blvd. Fullerton, CA		Page 3 of 21

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	99	60-132	
Dibromofluoromethane	103	63-141	
1,2-Dichloroethane-d4	111	62-146	
Toluene-d8	103	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Wayne Perry, Inc.		Date Received:	08/11/16
8281 Commonwealth Avenue		Work Order:	16-08-0890
Buena Park, CA 90621-2537		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/kg
Project: CSUF / 800 State College Blvd. Fullerton, CA			Page 4 of 21

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
PP-1d10	**16-08-0890-2-A**	**08/11/16 08:00**	**Solid**	**GC/MS W**	**08/11/16**	**08/12/16 17:52**	**160812L029**

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	120	1.00	
Benzene	ND	5.0	1.00	
Bromobenzene	ND	5.0	1.00	
Bromochloromethane	ND	5.0	1.00	
Bromodichloromethane	ND	5.0	1.00	
Bromoform	ND	5.0	1.00	
Bromomethane	ND	25	1.00	
2-Butanone	ND	50	1.00	
n-Butylbenzene	ND	5.0	1.00	
sec-Butylbenzene	ND	5.0	1.00	
tert-Butylbenzene	ND	5.0	1.00	
Carbon Disulfide	ND	50	1.00	
Carbon Tetrachloride	ND	5.0	1.00	
Chlorobenzene	ND	5.0	1.00	
Chloroethane	ND	5.0	1.00	
Chloroform	ND	5.0	1.00	
Chloromethane	ND	25	1.00	
2-Chlorotoluene	ND	5.0	1.00	
4-Chlorotoluene	ND	5.0	1.00	
Dibromochloromethane	ND	5.0	1.00	
1,2-Dibromo-3-Chloropropane	ND	9.9	1.00	
1,2-Dibromoethane	ND	5.0	1.00	
Dibromomethane	ND	5.0	1.00	
1,2-Dichlorobenzene	ND	5.0	1.00	
1,3-Dichlorobenzene	ND	5.0	1.00	
1,4-Dichlorobenzene	ND	5.0	1.00	
Dichlorodifluoromethane	ND	5.0	1.00	
1,1-Dichloroethane	ND	5.0	1.00	
1,2-Dichloroethane	ND	5.0	1.00	
1,1-Dichloroethene	ND	5.0	1.00	
c-1,2-Dichloroethene	ND	5.0	1.00	
t-1,2-Dichloroethene	ND	5.0	1.00	
1,2-Dichloropropane	ND	5.0	1.00	
1,3-Dichloropropane	ND	5.0	1.00	
2,2-Dichloropropane	ND	5.0	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Wayne Perry, Inc.	Date Received:	08/11/16
8281 Commonwealth Avenue	Work Order:	16-08-0890
Buena Park, CA 90621-2537	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/kg
Project: CSUF / 800 State College Blvd. Fullerton, CA		Page 5 of 21

Parameter	Result	RL	DF	Qualifiers
1,1-Dichloropropene	ND	5.0	1.00	
c-1,3-Dichloropropene	ND	5.0	1.00	
t-1,3-Dichloropropene	ND	5.0	1.00	
Ethylbenzene	ND	5.0	1.00	
2-Hexanone	ND	50	1.00	
Isopropylbenzene	ND	5.0	1.00	
p-Isopropyltoluene	ND	5.0	1.00	
Methylene Chloride	ND	50	1.00	
4-Methyl-2-Pentanone	ND	50	1.00	
Naphthalene	ND	50	1.00	
n-Propylbenzene	ND	5.0	1.00	
Styrene	ND	5.0	1.00	
1,1,1,2-Tetrachloroethane	ND	5.0	1.00	
1,1,2,2-Tetrachloroethane	ND	5.0	1.00	
Tetrachloroethene	ND	5.0	1.00	
Toluene	ND	5.0	1.00	
1,2,3-Trichlorobenzene	ND	9.9	1.00	
1,2,4-Trichlorobenzene	ND	5.0	1.00	
1,1,1-Trichloroethane	ND	5.0	1.00	
1,1,2-Trichloroethane	ND	5.0	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	50	1.00	
Trichloroethene	ND	5.0	1.00	
1,2,3-Trichloropropane	ND	5.0	1.00	
1,2,4-Trimethylbenzene	ND	5.0	1.00	
Trichlorofluoromethane	ND	50	1.00	
1,3,5-Trimethylbenzene	ND	5.0	1.00	
Vinyl Acetate	ND	50	1.00	
Vinyl Chloride	ND	5.0	1.00	
p/m-Xylene	ND	5.0	1.00	
o-Xylene	ND	5.0	1.00	
Xylenes (total)	ND	5.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.0	1.00	
Tert-Butyl Alcohol (TBA)	ND	50	1.00	
Diisopropyl Ether (DIPE)	ND	9.9	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	9.9	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	9.9	1.00	
Ethanol	ND	250	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Wayne Perry, Inc.		Date Received:	08/11/16
8281 Commonwealth Avenue		Work Order:	16-08-0890
Buena Park, CA 90621-2537		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/kg
Project: CSUF / 800 State College Blvd. Fullerton, CA			Page 6 of 21

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	98	60-132	
Dibromofluoromethane	101	63-141	
1,2-Dichloroethane-d4	109	62-146	
Toluene-d8	103	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Wayne Perry, Inc.		Date Received:	08/11/16
8281 Commonwealth Avenue		Work Order:	16-08-0890
Buena Park, CA 90621-2537		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/kg
Project: CSUF / 800 State College Blvd. Fullerton, CA			Page 7 of 21

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
PP-4d4	**16-08-0890-3-A**	**08/11/16 10:00**	**Solid**	**GC/MS W**	**08/11/16**	**08/12/16 20:05**	**160812L029**

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	120	1.00	
Benzene	ND	5.0	1.00	
Bromobenzene	ND	5.0	1.00	
Bromochloromethane	ND	5.0	1.00	
Bromodichloromethane	ND	5.0	1.00	
Bromoform	ND	5.0	1.00	
Bromomethane	ND	25	1.00	
2-Butanone	ND	50	1.00	
n-Butylbenzene	ND	5.0	1.00	
sec-Butylbenzene	ND	5.0	1.00	
tert-Butylbenzene	ND	5.0	1.00	
Carbon Disulfide	ND	50	1.00	
Carbon Tetrachloride	ND	5.0	1.00	
Chlorobenzene	ND	5.0	1.00	
Chloroethane	ND	5.0	1.00	
Chloroform	ND	5.0	1.00	
Chloromethane	ND	25	1.00	
2-Chlorotoluene	ND	5.0	1.00	
4-Chlorotoluene	ND	5.0	1.00	
Dibromochloromethane	ND	5.0	1.00	
1,2-Dibromo-3-Chloropropane	ND	9.9	1.00	
1,2-Dibromoethane	ND	5.0	1.00	
Dibromomethane	ND	5.0	1.00	
1,2-Dichlorobenzene	ND	5.0	1.00	
1,3-Dichlorobenzene	ND	5.0	1.00	
1,4-Dichlorobenzene	ND	5.0	1.00	
Dichlorodifluoromethane	ND	5.0	1.00	
1,1-Dichloroethane	ND	5.0	1.00	
1,2-Dichloroethane	ND	5.0	1.00	
1,1-Dichloroethene	ND	5.0	1.00	
c-1,2-Dichloroethene	ND	5.0	1.00	
t-1,2-Dichloroethene	ND	5.0	1.00	
1,2-Dichloropropane	ND	5.0	1.00	
1,3-Dichloropropane	ND	5.0	1.00	
2,2-Dichloropropane	ND	5.0	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Wayne Perry, Inc.	Date Received:	08/11/16
8281 Commonwealth Avenue	Work Order:	16-08-0890
Buena Park, CA 90621-2537	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/kg
Project: CSUF / 800 State College Blvd. Fullerton, CA		Page 8 of 21

Parameter	Result	RL	DF	Qualifiers
1,1-Dichloropropene	ND	5.0	1.00	
c-1,3-Dichloropropene	ND	5.0	1.00	
t-1,3-Dichloropropene	ND	5.0	1.00	
Ethylbenzene	ND	5.0	1.00	
2-Hexanone	ND	50	1.00	
Isopropylbenzene	ND	5.0	1.00	
p-Isopropyltoluene	ND	5.0	1.00	
Methylene Chloride	ND	50	1.00	
4-Methyl-2-Pentanone	ND	50	1.00	
Naphthalene	ND	50	1.00	
n-Propylbenzene	ND	5.0	1.00	
Styrene	ND	5.0	1.00	
1,1,1,2-Tetrachloroethane	ND	5.0	1.00	
1,1,2,2-Tetrachloroethane	ND	5.0	1.00	
Tetrachloroethene	ND	5.0	1.00	
Toluene	ND	5.0	1.00	
1,2,3-Trichlorobenzene	ND	9.9	1.00	
1,2,4-Trichlorobenzene	ND	5.0	1.00	
1,1,1-Trichloroethane	ND	5.0	1.00	
1,1,2-Trichloroethane	ND	5.0	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	50	1.00	
Trichloroethene	ND	5.0	1.00	
1,2,3-Trichloropropane	ND	5.0	1.00	
1,2,4-Trimethylbenzene	ND	5.0	1.00	
Trichlorofluoromethane	ND	50	1.00	
1,3,5-Trimethylbenzene	ND	5.0	1.00	
Vinyl Acetate	ND	50	1.00	
Vinyl Chloride	ND	5.0	1.00	
p/m-Xylene	ND	5.0	1.00	
o-Xylene	ND	5.0	1.00	
Xylenes (total)	ND	5.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.0	1.00	
Tert-Butyl Alcohol (TBA)	ND	50	1.00	
Diisopropyl Ether (DIPE)	ND	9.9	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	9.9	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	9.9	1.00	
Ethanol	ND	250	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Wayne Perry, Inc.		Date Received:	08/11/16
8281 Commonwealth Avenue		Work Order:	16-08-0890
Buena Park, CA 90621-2537		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/kg
Project: CSUF / 800 State College Blvd. Fullerton, CA			Page 9 of 21

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	97	60-132	
Dibromofluoromethane	101	63-141	
1,2-Dichloroethane-d4	110	62-146	
Toluene-d8	103	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Wayne Perry, Inc.		Date Received:	08/11/16
8281 Commonwealth Avenue		Work Order:	16-08-0890
Buena Park, CA 90621-2537		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/kg
Project: CSUF / 800 State College Blvd. Fullerton, CA			Page 10 of 21

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
PP-6d4	**16-08-0890-4-A**	**08/11/16 11:15**	**Solid**	**GC/MS Q**	**08/11/16**	**08/15/16 18:27**	**160815L001**

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	120	1.00	
Benzene	ND	5.0	1.00	
Bromobenzene	ND	5.0	1.00	
Bromochloromethane	ND	5.0	1.00	
Bromodichloromethane	ND	5.0	1.00	
Bromoform	ND	5.0	1.00	
Bromomethane	ND	25	1.00	
2-Butanone	ND	50	1.00	
n-Butylbenzene	ND	5.0	1.00	
sec-Butylbenzene	ND	5.0	1.00	
tert-Butylbenzene	ND	5.0	1.00	
Carbon Disulfide	ND	50	1.00	
Carbon Tetrachloride	ND	5.0	1.00	
Chlorobenzene	ND	5.0	1.00	
Chloroethane	ND	5.0	1.00	
Chloroform	ND	5.0	1.00	
Chloromethane	ND	25	1.00	
2-Chlorotoluene	ND	5.0	1.00	
4-Chlorotoluene	ND	5.0	1.00	
Dibromochloromethane	ND	5.0	1.00	
1,2-Dibromo-3-Chloropropane	ND	9.9	1.00	
1,2-Dibromoethane	ND	5.0	1.00	
Dibromomethane	ND	5.0	1.00	
1,2-Dichlorobenzene	ND	5.0	1.00	
1,3-Dichlorobenzene	ND	5.0	1.00	
1,4-Dichlorobenzene	ND	5.0	1.00	
Dichlorodifluoromethane	ND	5.0	1.00	
1,1-Dichloroethane	ND	5.0	1.00	
1,2-Dichloroethane	ND	5.0	1.00	
1,1-Dichloroethene	ND	5.0	1.00	
c-1,2-Dichloroethene	ND	5.0	1.00	
t-1,2-Dichloroethene	ND	5.0	1.00	
1,2-Dichloropropane	ND	5.0	1.00	
1,3-Dichloropropane	ND	5.0	1.00	
2,2-Dichloropropane	ND	5.0	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Wayne Perry, Inc.	Date Received:	08/11/16
8281 Commonwealth Avenue	Work Order:	16-08-0890
Buena Park, CA 90621-2537	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/kg
Project: CSUF / 800 State College Blvd. Fullerton, CA		Page 11 of 21

Parameter	Result	RL	DF	Qualifiers
1,1-Dichloropropene	ND	5.0	1.00	
c-1,3-Dichloropropene	ND	5.0	1.00	
t-1,3-Dichloropropene	ND	5.0	1.00	
Ethylbenzene	ND	5.0	1.00	
2-Hexanone	ND	50	1.00	
Isopropylbenzene	ND	5.0	1.00	
p-Isopropyltoluene	ND	5.0	1.00	
Methylene Chloride	ND	50	1.00	
4-Methyl-2-Pentanone	ND	50	1.00	
Naphthalene	ND	50	1.00	
n-Propylbenzene	ND	5.0	1.00	
Styrene	ND	5.0	1.00	
1,1,1,2-Tetrachloroethane	ND	5.0	1.00	
1,1,2,2-Tetrachloroethane	ND	5.0	1.00	
Tetrachloroethene	ND	5.0	1.00	
Toluene	ND	5.0	1.00	
1,2,3-Trichlorobenzene	ND	9.9	1.00	
1,2,4-Trichlorobenzene	ND	5.0	1.00	
1,1,1-Trichloroethane	ND	5.0	1.00	
1,1,2-Trichloroethane	ND	5.0	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	50	1.00	
Trichloroethene	ND	5.0	1.00	
1,2,3-Trichloropropane	ND	5.0	1.00	
1,2,4-Trimethylbenzene	ND	5.0	1.00	
Trichlorofluoromethane	ND	50	1.00	
1,3,5-Trimethylbenzene	ND	5.0	1.00	
Vinyl Acetate	ND	50	1.00	
Vinyl Chloride	ND	5.0	1.00	
p/m-Xylene	ND	5.0	1.00	
o-Xylene	ND	5.0	1.00	
Xylenes (total)	ND	5.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.0	1.00	
Tert-Butyl Alcohol (TBA)	ND	50	1.00	
Diisopropyl Ether (DIPE)	ND	9.9	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	9.9	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	9.9	1.00	
Ethanol	ND	250	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Wayne Perry, Inc.		Date Received:	08/11/16
8281 Commonwealth Avenue		Work Order:	16-08-0890
Buena Park, CA 90621-2537		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/kg
Project: CSUF / 800 State College Blvd. Fullerton, CA			Page 12 of 21

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	89	60-132	
Dibromofluoromethane	103	63-141	
1,2-Dichloroethane-d4	121	62-146	
Toluene-d8	91	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Wayne Perry, Inc.		Date Received:	08/11/16
8281 Commonwealth Avenue		Work Order:	16-08-0890
Buena Park, CA 90621-2537		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/kg
Project: CSUF / 800 State College Blvd. Fullerton, CA			Page 13 of 21

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
PP-7d4	**16-08-0890-5-A**	**08/11/16 11:45**	**Solid**	**GC/MS Q**	**08/11/16**	**08/15/16 18:53**	**160815L001**

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	120	1.00	
Benzene	ND	5.0	1.00	
Bromobenzene	ND	5.0	1.00	
Bromochloromethane	ND	5.0	1.00	
Bromodichloromethane	ND	5.0	1.00	
Bromoform	ND	5.0	1.00	
Bromomethane	ND	25	1.00	
2-Butanone	ND	50	1.00	
n-Butylbenzene	ND	5.0	1.00	
sec-Butylbenzene	ND	5.0	1.00	
tert-Butylbenzene	ND	5.0	1.00	
Carbon Disulfide	ND	50	1.00	
Carbon Tetrachloride	ND	5.0	1.00	
Chlorobenzene	ND	5.0	1.00	
Chloroethane	ND	5.0	1.00	
Chloroform	ND	5.0	1.00	
Chloromethane	ND	25	1.00	
2-Chlorotoluene	ND	5.0	1.00	
4-Chlorotoluene	ND	5.0	1.00	
Dibromochloromethane	ND	5.0	1.00	
1,2-Dibromo-3-Chloropropane	ND	9.9	1.00	
1,2-Dibromoethane	ND	5.0	1.00	
Dibromomethane	ND	5.0	1.00	
1,2-Dichlorobenzene	ND	5.0	1.00	
1,3-Dichlorobenzene	ND	5.0	1.00	
1,4-Dichlorobenzene	ND	5.0	1.00	
Dichlorodifluoromethane	ND	5.0	1.00	
1,1-Dichloroethane	ND	5.0	1.00	
1,2-Dichloroethane	ND	5.0	1.00	
1,1-Dichloroethene	ND	5.0	1.00	
c-1,2-Dichloroethene	ND	5.0	1.00	
t-1,2-Dichloroethene	ND	5.0	1.00	
1,2-Dichloropropane	ND	5.0	1.00	
1,3-Dichloropropane	ND	5.0	1.00	
2,2-Dichloropropane	ND	5.0	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Wayne Perry, Inc.	Date Received:	08/11/16
8281 Commonwealth Avenue	Work Order:	16-08-0890
Buena Park, CA 90621-2537	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/kg
Project: CSUF / 800 State College Blvd. Fullerton, CA		Page 14 of 21

Parameter	Result	RL	DF	Qualifiers
1,1-Dichloropropene	ND	5.0	1.00	
c-1,3-Dichloropropene	ND	5.0	1.00	
t-1,3-Dichloropropene	ND	5.0	1.00	
Ethylbenzene	ND	5.0	1.00	
2-Hexanone	ND	50	1.00	
Isopropylbenzene	ND	5.0	1.00	
p-Isopropyltoluene	ND	5.0	1.00	
Methylene Chloride	ND	50	1.00	
4-Methyl-2-Pentanone	63	50	1.00	
Naphthalene	ND	50	1.00	
n-Propylbenzene	ND	5.0	1.00	
Styrene	ND	5.0	1.00	
1,1,1,2-Tetrachloroethane	ND	5.0	1.00	
1,1,2,2-Tetrachloroethane	ND	5.0	1.00	
Tetrachloroethene	ND	5.0	1.00	
Toluene	ND	5.0	1.00	
1,2,3-Trichlorobenzene	ND	9.9	1.00	
1,2,4-Trichlorobenzene	ND	5.0	1.00	
1,1,1-Trichloroethane	ND	5.0	1.00	
1,1,2-Trichloroethane	ND	5.0	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	50	1.00	
Trichloroethene	ND	5.0	1.00	
1,2,3-Trichloropropane	ND	5.0	1.00	
1,2,4-Trimethylbenzene	ND	5.0	1.00	
Trichlorofluoromethane	ND	50	1.00	
1,3,5-Trimethylbenzene	ND	5.0	1.00	
Vinyl Acetate	ND	50	1.00	
Vinyl Chloride	ND	5.0	1.00	
p/m-Xylene	ND	5.0	1.00	
o-Xylene	ND	5.0	1.00	
Xylenes (total)	ND	5.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.0	1.00	
Tert-Butyl Alcohol (TBA)	ND	50	1.00	
Diisopropyl Ether (DIPE)	ND	9.9	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	9.9	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	9.9	1.00	
Ethanol	ND	250	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Wayne Perry, Inc.		Date Received:	08/11/16
8281 Commonwealth Avenue		Work Order:	16-08-0890
Buena Park, CA 90621-2537		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/kg
Project: CSUF / 800 State College Blvd. Fullerton, CA			Page 15 of 21

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	73	60-132	
Dibromofluoromethane	84	63-141	
1,2-Dichloroethane-d4	102	62-146	
Toluene-d8	86	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Wayne Perry, Inc.		Date Received:	08/11/16
8281 Commonwealth Avenue		Work Order:	16-08-0890
Buena Park, CA 90621-2537		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/kg
Project: CSUF / 800 State College Blvd. Fullerton, CA			Page 16 of 21

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-796-11580**	**N/A**	**Solid**	**GC/MS W**	**08/12/16**	**08/12/16 16:59**	**160812L029**

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	120	1.00	
Benzene	ND	5.0	1.00	
Bromobenzene	ND	5.0	1.00	
Bromochloromethane	ND	5.0	1.00	
Bromodichloromethane	ND	5.0	1.00	
Bromoform	ND	5.0	1.00	
Bromomethane	ND	25	1.00	
2-Butanone	ND	50	1.00	
n-Butylbenzene	ND	5.0	1.00	
sec-Butylbenzene	ND	5.0	1.00	
tert-Butylbenzene	ND	5.0	1.00	
Carbon Disulfide	ND	50	1.00	
Carbon Tetrachloride	ND	5.0	1.00	
Chlorobenzene	ND	5.0	1.00	
Chloroethane	ND	5.0	1.00	
Chloroform	ND	5.0	1.00	
Chloromethane	ND	25	1.00	
2-Chlorotoluene	ND	5.0	1.00	
4-Chlorotoluene	ND	5.0	1.00	
Dibromochloromethane	ND	5.0	1.00	
1,2-Dibromo-3-Chloropropane	ND	10	1.00	
1,2-Dibromoethane	ND	5.0	1.00	
Dibromomethane	ND	5.0	1.00	
1,2-Dichlorobenzene	ND	5.0	1.00	
1,3-Dichlorobenzene	ND	5.0	1.00	
1,4-Dichlorobenzene	ND	5.0	1.00	
Dichlorodifluoromethane	ND	5.0	1.00	
1,1-Dichloroethane	ND	5.0	1.00	
1,2-Dichloroethane	ND	5.0	1.00	
1,1-Dichloroethene	ND	5.0	1.00	
c-1,2-Dichloroethene	ND	5.0	1.00	
t-1,2-Dichloroethene	ND	5.0	1.00	
1,2-Dichloropropane	ND	5.0	1.00	
1,3-Dichloropropane	ND	5.0	1.00	
2,2-Dichloropropane	ND	5.0	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Wayne Perry, Inc.	Date Received:	08/11/16
8281 Commonwealth Avenue	Work Order:	16-08-0890
Buena Park, CA 90621-2537	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/kg
Project: CSUF / 800 State College Blvd. Fullerton, CA		Page 17 of 21

Parameter	Result	RL	DF	Qualifiers
1,1-Dichloropropene	ND	5.0	1.00	
c-1,3-Dichloropropene	ND	5.0	1.00	
t-1,3-Dichloropropene	ND	5.0	1.00	
Ethylbenzene	ND	5.0	1.00	
2-Hexanone	ND	50	1.00	
Isopropylbenzene	ND	5.0	1.00	
p-Isopropyltoluene	ND	5.0	1.00	
Methylene Chloride	ND	50	1.00	
4-Methyl-2-Pentanone	ND	50	1.00	
Naphthalene	ND	50	1.00	
n-Propylbenzene	ND	5.0	1.00	
Styrene	ND	5.0	1.00	
1,1,1,2-Tetrachloroethane	ND	5.0	1.00	
1,1,2,2-Tetrachloroethane	ND	5.0	1.00	
Tetrachloroethene	ND	5.0	1.00	
Toluene	ND	5.0	1.00	
1,2,3-Trichlorobenzene	ND	10	1.00	
1,2,4-Trichlorobenzene	ND	5.0	1.00	
1,1,1-Trichloroethane	ND	5.0	1.00	
1,1,2-Trichloroethane	ND	5.0	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	50	1.00	
Trichloroethene	ND	5.0	1.00	
1,2,3-Trichloropropane	ND	5.0	1.00	
1,2,4-Trimethylbenzene	ND	5.0	1.00	
Trichlorofluoromethane	ND	50	1.00	
1,3,5-Trimethylbenzene	ND	5.0	1.00	
Vinyl Acetate	ND	50	1.00	
Vinyl Chloride	ND	5.0	1.00	
p/m-Xylene	ND	5.0	1.00	
o-Xylene	ND	5.0	1.00	
Xylenes (total)	ND	5.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.0	1.00	
Tert-Butyl Alcohol (TBA)	ND	50	1.00	
Diisopropyl Ether (DIPE)	ND	10	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	10	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	10	1.00	
Ethanol	ND	250	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Wayne Perry, Inc.		Date Received:	08/11/16
8281 Commonwealth Avenue		Work Order:	16-08-0890
Buena Park, CA 90621-2537		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/kg
Project: CSUF / 800 State College Blvd. Fullerton, CA			Page 18 of 21

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	99	60-132	
Dibromofluoromethane	103	63-141	
1,2-Dichloroethane-d4	108	62-146	
Toluene-d8	104	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Wayne Perry, Inc.		Date Received:	08/11/16
8281 Commonwealth Avenue		Work Order:	16-08-0890
Buena Park, CA 90621-2537		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/kg
Project: CSUF / 800 State College Blvd. Fullerton, CA			Page 19 of 21

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-796-11587**	**N/A**	**Solid**	**GC/MS Q**	**08/15/16**	**08/15/16 11:09**	**160815L001**

Parameter	Result	RL	DF	Qualifiers
Acetone	ND	120	1.00	
Benzene	ND	5.0	1.00	
Bromobenzene	ND	5.0	1.00	
Bromochloromethane	ND	5.0	1.00	
Bromodichloromethane	ND	5.0	1.00	
Bromoform	ND	5.0	1.00	
Bromomethane	ND	25	1.00	
2-Butanone	ND	50	1.00	
n-Butylbenzene	ND	5.0	1.00	
sec-Butylbenzene	ND	5.0	1.00	
tert-Butylbenzene	ND	5.0	1.00	
Carbon Disulfide	ND	50	1.00	
Carbon Tetrachloride	ND	5.0	1.00	
Chlorobenzene	ND	5.0	1.00	
Chloroethane	ND	5.0	1.00	
Chloroform	ND	5.0	1.00	
Chloromethane	ND	25	1.00	
2-Chlorotoluene	ND	5.0	1.00	
4-Chlorotoluene	ND	5.0	1.00	
Dibromochloromethane	ND	5.0	1.00	
1,2-Dibromo-3-Chloropropane	ND	10	1.00	
1,2-Dibromoethane	ND	5.0	1.00	
Dibromomethane	ND	5.0	1.00	
1,2-Dichlorobenzene	ND	5.0	1.00	
1,3-Dichlorobenzene	ND	5.0	1.00	
1,4-Dichlorobenzene	ND	5.0	1.00	
Dichlorodifluoromethane	ND	5.0	1.00	
1,1-Dichloroethane	ND	5.0	1.00	
1,2-Dichloroethane	ND	5.0	1.00	
1,1-Dichloroethene	ND	5.0	1.00	
c-1,2-Dichloroethene	ND	5.0	1.00	
t-1,2-Dichloroethene	ND	5.0	1.00	
1,2-Dichloropropane	ND	5.0	1.00	
1,3-Dichloropropane	ND	5.0	1.00	
2,2-Dichloropropane	ND	5.0	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Wayne Perry, Inc.	Date Received:	08/11/16
8281 Commonwealth Avenue	Work Order:	16-08-0890
Buena Park, CA 90621-2537	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/kg
Project: CSUF / 800 State College Blvd. Fullerton, CA		Page 20 of 21

Parameter	Result	RL	DF	Qualifiers
1,1-Dichloropropene	ND	5.0	1.00	
c-1,3-Dichloropropene	ND	5.0	1.00	
t-1,3-Dichloropropene	ND	5.0	1.00	
Ethylbenzene	ND	5.0	1.00	
2-Hexanone	ND	50	1.00	
Isopropylbenzene	ND	5.0	1.00	
p-Isopropyltoluene	ND	5.0	1.00	
Methylene Chloride	ND	50	1.00	
4-Methyl-2-Pentanone	ND	50	1.00	
Naphthalene	ND	50	1.00	
n-Propylbenzene	ND	5.0	1.00	
Styrene	ND	5.0	1.00	
1,1,1,2-Tetrachloroethane	ND	5.0	1.00	
1,1,2,2-Tetrachloroethane	ND	5.0	1.00	
Tetrachloroethene	ND	5.0	1.00	
Toluene	ND	5.0	1.00	
1,2,3-Trichlorobenzene	ND	10	1.00	
1,2,4-Trichlorobenzene	ND	5.0	1.00	
1,1,1-Trichloroethane	ND	5.0	1.00	
1,1,2-Trichloroethane	ND	5.0	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	50	1.00	
Trichloroethene	ND	5.0	1.00	
1,2,3-Trichloropropane	ND	5.0	1.00	
1,2,4-Trimethylbenzene	ND	5.0	1.00	
Trichlorofluoromethane	ND	50	1.00	
1,3,5-Trimethylbenzene	ND	5.0	1.00	
Vinyl Acetate	ND	50	1.00	
Vinyl Chloride	ND	5.0	1.00	
p/m-Xylene	ND	5.0	1.00	
o-Xylene	ND	5.0	1.00	
Xylenes (total)	ND	5.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.0	1.00	
Tert-Butyl Alcohol (TBA)	ND	50	1.00	
Diisopropyl Ether (DIPE)	ND	10	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	10	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	10	1.00	
Ethanol	ND	250	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Wayne Perry, Inc.	Date Received:	08/11/16
8281 Commonwealth Avenue	Work Order:	16-08-0890
Buena Park, CA 90621-2537	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/kg
Project: CSUF / 800 State College Blvd. Fullerton, CA		Page 21 of 21

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	101	60-132	
Dibromofluoromethane	101	63-141	
1,2-Dichloroethane-d4	112	62-146	
Toluene-d8	98	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Quality Control - Spike/Spike Duplicate

Wayne Perry, Inc.		Date Received:	08/11/16
8281 Commonwealth Avenue		Work Order:	16-08-0890
Buena Park, CA 90621-2537		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
Project: CSUF / 800 State College Blvd. Fullerton, CA			Page 1 of 5

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
16-08-0726-1	**Sample**	**Solid**	**GC 45**	**08/12/16**	**08/12/16 15:41**	**160812S03**
16-08-0726-1	**Matrix Spike**	**Solid**	**GC 45**	**08/12/16**	**08/12/16 15:09**	**160812S03**
16-08-0726-1	**Matrix Spike Duplicate**	**Solid**	**GC 45**	**08/12/16**	**08/12/16 15:25**	**160812S03**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
TPH as Motor Oil	ND	400.0	392.6	98	368.2	92	64-130	6	0-15	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Wayne Perry, Inc.		Date Received:	08/11/16
8281 Commonwealth Avenue		Work Order:	16-08-0890
Buena Park, CA 90621-2537		Preparation:	EPA 3050B
		Method:	EPA 6010B
Project: CSUF / 800 State College Blvd. Fullerton, CA			Page 2 of 5

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
PP-1d5	**Sample**	**Solid**	**ICP 7300**	**08/15/16**	**08/16/16 14:54**	**160815S01**
PP-1d5	**Matrix Spike**	**Solid**	**ICP 7300**	**08/15/16**	**08/16/16 14:56**	**160815S01**
PP-1d5	**Matrix Spike Duplicate**	**Solid**	**ICP 7300**	**08/15/16**	**08/16/16 14:57**	**160815S01**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Antimony	ND	25.00	8.024	32	8.594	34	50-115	7	0-20	3
Arsenic	13.73	25.00	36.66	92	35.02	85	75-125	5	0-20	
Barium	106.6	25.00	138.6	4X	130.0	4X	75-125	4X	0-20	Q
Beryllium	ND	25.00	28.53	114	26.90	108	75-125	6	0-20	
Cadmium	1.143	25.00	28.00	107	26.37	101	75-125	6	0-20	
Chromium	12.67	25.00	42.23	118	39.77	108	75-125	6	0-20	
Cobalt	5.532	25.00	33.19	111	31.36	103	75-125	6	0-20	
Copper	8.507	25.00	39.41	124	37.10	114	75-125	6	0-20	
Lead	6.319	25.00	33.32	108	31.14	99	75-125	7	0-20	
Molybdenum	2.494	25.00	29.05	106	27.12	99	75-125	7	0-20	
Nickel	13.24	25.00	42.61	117	39.99	107	75-125	6	0-20	
Selenium	ND	25.00	27.30	109	26.77	107	75-125	2	0-20	
Silver	ND	12.50	13.37	107	12.73	102	75-125	5	0-20	
Thallium	ND	25.00	20.29	81	14.17	57	75-125	36	0-20	3,4
Vanadium	28.12	25.00	60.17	128	56.69	114	75-125	6	0-20	3
Zinc	44.11	25.00	77.03	132	72.77	115	75-125	6	0-20	3

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Wayne Perry, Inc.		Date Received:	08/11/16
8281 Commonwealth Avenue		Work Order:	16-08-0890
Buena Park, CA 90621-2537		Preparation:	EPA 7471A Total
		Method:	EPA 7471A
Project: CSUF / 800 State College Blvd. Fullerton, CA			Page 3 of 5

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
PP-1d5	**Sample**	**Solid**	**Mercury 05**	**08/15/16**	**08/16/16 12:42**	**160815S06**
PP-1d5	**Matrix Spike**	**Solid**	**Mercury 05**	**08/15/16**	**08/16/16 12:37**	**160815S06**
PP-1d5	**Matrix Spike Duplicate**	**Solid**	**Mercury 05**	**08/15/16**	**08/16/16 12:39**	**160815S06**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Mercury	ND	0.8350	0.8703	104	0.8498	102	71-137	2	0-14	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Wayne Perry, Inc.		Date Received:	08/11/16
8281 Commonwealth Avenue		Work Order:	16-08-0890
Buena Park, CA 90621-2537		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: CSUF / 800 State College Blvd. Fullerton, CA			Page 4 of 5

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
16-08-0804-11	**Sample**	**Solid**	**GC/MS Q**	**08/12/16**	**08/15/16 12:05**	**160815S001**
16-08-0804-11	**Matrix Spike**	**Solid**	**GC/MS Q**	**08/12/16**	**08/15/16 12:31**	**160815S001**
16-08-0804-11	**Matrix Spike Duplicate**	**Solid**	**GC/MS Q**	**08/12/16**	**08/15/16 12:57**	**160815S001**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Benzene	ND	50.00	40.36	81	41.14	82	61-127	2	0-20	
Carbon Tetrachloride	ND	50.00	45.00	90	49.85	100	51-135	10	0-29	
Chlorobenzene	ND	50.00	37.87	76	37.47	75	57-123	1	0-20	
1,2-Dibromoethane	ND	50.00	42.33	85	41.82	84	64-124	1	0-20	
1,2-Dichlorobenzene	ND	50.00	34.75	69	34.14	68	35-131	2	0-25	
1,2-Dichloroethane	ND	50.00	42.11	84	45.41	91	80-120	8	0-20	
1,1-Dichloroethene	ND	50.00	40.27	81	47.19	94	47-143	16	0-25	
Ethylbenzene	ND	50.00	41.77	84	41.50	83	57-129	1	0-22	
Toluene	ND	50.00	42.54	85	42.47	85	63-123	0	0-20	
Trichloroethene	ND	50.00	43.59	87	44.53	89	44-158	2	0-20	
Vinyl Chloride	ND	50.00	34.91	70	41.08	82	49-139	16	0-47	
p/m-Xylene	ND	100.0	83.87	84	82.00	82	70-130	2	0-30	
o-Xylene	ND	50.00	41.68	83	41.26	83	70-130	1	0-30	
Methyl-t-Butyl Ether (MTBE)	ND	50.00	43.59	87	44.41	89	57-123	2	0-21	
Tert-Butyl Alcohol (TBA)	ND	250.0	224.0	90	223.1	89	30-168	0	0-34	
Diisopropyl Ether (DIPE)	ND	50.00	42.20	84	40.82	82	57-129	3	0-20	
Ethyl-t-Butyl Ether (ETBE)	ND	50.00	42.70	85	41.44	83	55-127	3	0-20	
Tert-Amyl-Methyl Ether (TAME)	ND	50.00	46.94	94	43.10	86	58-124	9	0-20	
Ethanol	ND	500.0	352.2	70	422.0	84	17-167	18	0-47	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Wayne Perry, Inc.		Date Received:	08/11/16
8281 Commonwealth Avenue		Work Order:	16-08-0890
Buena Park, CA 90621-2537		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: CSUF / 800 State College Blvd. Fullerton, CA			Page 5 of 5

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
PP-1d10	**Sample**	**Solid**	**GC/MS W**	**08/11/16**	**08/12/16 17:52**	**160812S009**
PP-1d10	**Matrix Spike**	**Solid**	**GC/MS W**	**08/11/16**	**08/12/16 18:19**	**160812S009**
PP-1d10	**Matrix Spike Duplicate**	**Solid**	**GC/MS W**	**08/11/16**	**08/12/16 18:45**	**160812S009**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Benzene	ND	50.00	44.91	90	42.87	86	61-127	5	0-20	
Carbon Tetrachloride	ND	50.00	33.65	67	33.61	67	51-135	0	0-29	
Chlorobenzene	ND	50.00	44.12	88	41.32	83	57-123	7	0-20	
1,2-Dibromoethane	ND	50.00	46.18	92	43.84	88	64-124	5	0-20	
1,2-Dichlorobenzene	ND	50.00	41.79	84	40.75	82	35-131	3	0-25	
1,2-Dichloroethane	ND	50.00	44.27	89	42.80	86	80-120	3	0-20	
1,1-Dichloroethene	ND	50.00	47.25	95	45.69	91	47-143	3	0-25	
Ethylbenzene	ND	50.00	44.19	88	41.68	83	57-129	6	0-22	
Toluene	ND	50.00	44.98	90	43.06	86	63-123	4	0-20	
Trichloroethene	ND	50.00	46.66	93	44.99	90	44-158	4	0-20	
Vinyl Chloride	ND	50.00	47.71	95	48.16	96	49-139	1	0-47	
p/m-Xylene	ND	100.0	86.53	87	81.74	82	70-130	6	0-30	
o-Xylene	ND	50.00	45.22	90	43.10	86	70-130	5	0-30	
Methyl-t-Butyl Ether (MTBE)	ND	50.00	46.32	93	44.98	90	57-123	3	0-21	
Tert-Butyl Alcohol (TBA)	ND	250.0	231.7	93	222.8	89	30-168	4	0-34	
Diisopropyl Ether (DIPE)	ND	50.00	49.20	98	47.68	95	57-129	3	0-20	
Ethyl-t-Butyl Ether (ETBE)	ND	50.00	46.92	94	44.95	90	55-127	4	0-20	
Tert-Amyl-Methyl Ether (TAME)	ND	50.00	44.17	88	42.65	85	58-124	4	0-20	
Ethanol	ND	500.0	480.5	96	474.4	95	17-167	1	0-47	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Wayne Perry, Inc.		Date Received:	08/11/16
8281 Commonwealth Avenue		Work Order:	16-08-0890
Buena Park, CA 90621-2537		Preparation:	EPA 3550B
		Method:	EPA 8015B (M)
Project: CSUF / 800 State College Blvd. Fullerton, CA			Page 1 of 5

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-420-1932	LCS	Solid	GC 45	08/12/16	08/12/16 14:20	160812B03

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
TPH as Motor Oil	400.0	354.0	88	75-123	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Wayne Perry, Inc.		Date Received:	08/11/16
8281 Commonwealth Avenue		Work Order:	16-08-0890
Buena Park, CA 90621-2537		Preparation:	EPA 3050B
		Method:	EPA 6010B
Project: CSUF / 800 State College Blvd. Fullerton, CA			Page 2 of 5

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
097-01-002-23102	LCS	Solid	ICP 7300	08/15/16	08/16/16 13:59	160815L01

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Antimony	25.00	24.00	96	80-120	73-127	
Arsenic	25.00	23.89	96	80-120	73-127	
Barium	25.00	25.84	103	80-120	73-127	
Beryllium	25.00	23.88	96	80-120	73-127	
Cadmium	25.00	25.63	103	80-120	73-127	
Chromium	25.00	25.88	104	80-120	73-127	
Cobalt	25.00	25.81	103	80-120	73-127	
Copper	25.00	25.04	100	80-120	73-127	
Lead	25.00	25.39	102	80-120	73-127	
Molybdenum	25.00	24.47	98	80-120	73-127	
Nickel	25.00	26.41	106	80-120	73-127	1
Selenium	25.00	23.22	93	80-120	73-127	
Silver	12.50	12.04	96	80-120	73-127	
Thallium	25.00	24.64	99	80-120	73-127	
Vanadium	25.00	24.84	99	80-120	73-127	
Zinc	25.00	25.81	103	80-120	73-127	

Total number of LCS compounds: 16
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Wayne Perry, Inc.		Date Received:	08/11/16
8281 Commonwealth Avenue		Work Order:	16-08-0890
Buena Park, CA 90621-2537		Preparation:	EPA 7471A Total
		Method:	EPA 7471A
Project: CSUF / 800 State College Blvd. Fullerton, CA			Page 3 of 5

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-16-272-2424	**LCS**	**Solid**	**Mercury 05**	**08/15/16**	**08/16/16 11:30**	**160815L06**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Mercury	0.8350	0.8692	104	85-121	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Wayne Perry, Inc.		Date Received:	08/11/16
8281 Commonwealth Avenue		Work Order:	16-08-0890
Buena Park, CA 90621-2537		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: CSUF / 800 State College Blvd. Fullerton, CA			Page 4 of 5

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-12-796-11587	LCS	Solid	GC/MS Q	08/15/16	08/15/16 10:13	160815L001

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Benzene	50.00	43.85	88	78-120	71-127	
Carbon Tetrachloride	50.00	49.49	99	49-139	34-154	
Chlorobenzene	50.00	43.78	88	79-120	72-127	
1,2-Dibromoethane	50.00	46.39	93	80-120	73-127	
1,2-Dichlorobenzene	50.00	45.23	90	75-120	68-128	
1,2-Dichloroethane	50.00	45.20	90	80-120	73-127	
1,1-Dichloroethene	50.00	43.45	87	74-122	66-130	
Ethylbenzene	50.00	46.85	94	76-120	69-127	
Toluene	50.00	47.35	95	77-120	70-127	
Trichloroethene	50.00	47.94	96	80-120	73-127	
Vinyl Chloride	50.00	37.54	75	68-122	59-131	
p/m-Xylene	100.0	94.36	94	75-125	67-133	
o-Xylene	50.00	47.10	94	75-125	67-133	
Methyl-t-Butyl Ether (MTBE)	50.00	46.97	94	77-120	70-127	
Tert-Butyl Alcohol (TBA)	250.0	227.0	91	68-122	59-131	
Diisopropyl Ether (DIPE)	50.00	45.41	91	78-120	71-127	
Ethyl-t-Butyl Ether (ETBE)	50.00	46.06	92	78-120	71-127	
Tert-Amyl-Methyl Ether (TAME)	50.00	50.12	100	75-120	68-128	
Ethanol	500.0	355.5	71	56-140	42-154	

Total number of LCS compounds: 19
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Wayne Perry, Inc.		Date Received:	08/11/16
8281 Commonwealth Avenue		Work Order:	16-08-0890
Buena Park, CA 90621-2537		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: CSUF / 800 State College Blvd. Fullerton, CA			Page 5 of 5

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-12-796-11580	LCS	Solid	GC/MS W	08/12/16	08/12/16 16:05	160812L029

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	ME CL	Qualifiers
Benzene	50.00	44.43	89	78-120	71-127	
Carbon Tetrachloride	50.00	34.57	69	49-139	34-154	
Chlorobenzene	50.00	45.05	90	79-120	72-127	
1,2-Dibromoethane	50.00	45.40	91	80-120	73-127	
1,2-Dichlorobenzene	50.00	45.98	92	75-120	68-128	
1,2-Dichloroethane	50.00	43.45	87	80-120	73-127	
1,1-Dichloroethene	50.00	46.52	93	74-122	66-130	
Ethylbenzene	50.00	44.89	90	76-120	69-127	
Toluene	50.00	44.45	89	77-120	70-127	
Trichloroethene	50.00	45.90	92	80-120	73-127	
Vinyl Chloride	50.00	47.47	95	68-122	59-131	
p/m-Xylene	100.0	87.74	88	75-125	67-133	
o-Xylene	50.00	46.28	93	75-125	67-133	
Methyl-t-Butyl Ether (MTBE)	50.00	46.01	92	77-120	70-127	
Tert-Butyl Alcohol (TBA)	250.0	229.3	92	68-122	59-131	
Diisopropyl Ether (DIPE)	50.00	48.51	97	78-120	71-127	
Ethyl-t-Butyl Ether (ETBE)	50.00	46.47	93	78-120	71-127	
Tert-Amyl-Methyl Ether (TAME)	50.00	42.97	86	75-120	68-128	
Ethanol	500.0	486.4	97	56-140	42-154	

Total number of LCS compounds: 19
Total number of ME compounds: 0
Total number of ME compounds allowed: 1
LCS ME CL validation result: Pass

RPD: Relative Percent Difference. CL: Control Limits

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Glossary of Terms and Qualifiers

Work Order: 16-08-0890

Qualifiers	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
CI	See case narrative.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

WAYNE PERRY, INC.
8281 Commonwealth Avenue • Buena Park, California 90621
(714) 826-0352 office • (800) 883-0351 toll free • (714) 523-7541 fax

CHAIN OF CUSTODY RECORD

16-08-0890

WPI Client & Contact: CSUF
Site Address: 800 State College Blvd. Fullerton CA
Station Number:
WPI Contact: Robert Deamer rdeamer@wpinc.com
Generate EDF: [ ] Yes [X] No
Global ID: _____

WPI Job Number: 16.399
Laboratory"
Sampled By:
Result Turnaround: [X] Std. [ ] 72 hrs. [ ] 48 hrs. [ ] 24 hrs.

	Sample Name	Sampling Date	Sampling Time	Matrix	No. of Cont.	EPA 8015M Gas TPH-O	EPA 8260B BTEX oxygenates/ethanol VOCS	EPA 300 Sulfate/Nitrate/ ferrous iron	TTLC22 metals EPA 6010B	Comments or Additional Instructions:
1	PP-1d5	8/10/16	0815	Soil	1	X	X		X	
2	PP-1d10	8/11/16	0800	↓	↓	↓	↓		↓	
3	PP-4d4	8/11/16	1000	↓	↓	↓	↓		↓	
4	PP-6d4	8/11/16	1115	↓	↓	↓	↓		↓	
5	PP-7d4	8/11/16	1145	↓	↓	↓	↓		↓	

Relinquished By:	Received By:	Date:	Time:
[signature]	Dannyle CCI	8/11/16	17:22
Relinquished By:	Received By:	Date:	Time:
Relinquished By:	Received By:	Date:	Time:

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WORK ORDER NUMBER: 16-08- 0890

SAMPLE RECEIPT CHECKLIST

COOLER 1 OF 1

CLIENT: WPI

DATE: 08 / 11 / 2016

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC2A (CF: 0.0°C); Temperature (w/o CF): 3.9 °C (w/ CF): 3.9 °C; ☐ Blank ☑ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter

Checked by: 659

CUSTODY SEAL:

Cooler	☐ Present and Intact	☐ Present but Not Intact	☑ Not Present	☐ N/A	Checked by: 659
Sample(s)	☐ Present and Intact	☐ Present but Not Intact	☑ Not Present	☐ N/A	Checked by: 836

SAMPLE CONDITION:	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation chemical(s) noted on COC and/or sample container	☐	☐	☑
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☐	☐	☑
☐ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: (Trip Blank Lot Number: _____)

Aqueous: ☐ VOA ☐ VOAh ☐ VOAna$_2$ ☐ 100PJ ☐ 100PJna$_2$ ☐ 125AGB ☐ 125AGBh ☐ 125AGBp ☐ 125PB ☐ 125PBznna ☐ 250AGB ☐ 250CGB ☐ 250CGBs ☐ 250PB ☐ 250PBn ☐ 500AGB ☐ 500AGJ ☐ 500AGJs ☐ 500PB ☐ 1AGB ☐ 1AGBna$_2$ ☐ 1AGBs ☐ 1PB ☐ 1PBna ☐ _____ ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☑ Sleeve (S) ☐ EnCores® (____) ☐ TerraCores® (____) ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na$_2$** = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **znna** = Zn $(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 836

Reviewed by: SD

APPENDIX D

USEPA REGIONAL SCREENING LEVEL RISK CALCULATIONS

Site-specific

Resident Equation Inputs for Soil

Variable	Value
THQ (target hazard quotient) unitless	1
TR (target risk) unitless	1.0E-6
LT (lifetime) year	70
ET_{res} (exposure time) hour	24
ET_{res-c} (child exposure time) hour	24
ET_{res-a} (adult exposure time) hour	24
ET_{0-2} (mutagenic exposure time) hour	24
ET_{2-6} (mutagenic exposure time) hour	24
ET_{6-16} (mutagenic exposure time) hour	24
ET_{16-26} (mutagenic exposure time) hour	24
ED_{res} (exposure duration) year	26
ED_{res-c} (exposure duration - child) year	6
ED_{res-a} (exposure duration - adult) year	20
ED_{0-2} (mutagenic exposure duration) year	2
ED_{2-6} (mutagenic exposure duration) year	4
ED_{6-16} (mutagenic exposure duration) year	10
ED_{16-26} (mutagenic exposure duration) year	10
BW_{res-c} (body weight - child) kg	15
BW_{res-a} (body weight - adult) kg	80
BW_{0-2} (mutagenic body weight) kg	15
BW_{2-6} (mutagenic body weight) kg	15
BW_{6-16} (mutagenic body weight) kg	80
BW_{16-26} (mutagenic body weight) kg	80
SA_{res-c} (skin surface area - child) cm^2/day	2373
SA_{res-a} (skin surface area - adult) cm^2/day	6032
SA_{0-2} (mutagenic skin surface area) cm^2/day	2373
SA_{2-6} (mutagenic skin surface area) cm^2/day	2373
SA_{6-16} (mutagenic skin surface area) cm^2/day	6032
SA_{16-26} (mutagenic skin surface area) cm^2/day	6032
EF_{res} (exposure frequency) day/year	350
EF_{res-c} (exposure frequency - child) day/year	350
EF_{res-a} (exposure frequency - adult) day/year	350
EF_{0-2} (mutagenic exposure frequency) day/year	350

Site-specific

Resident Equation Inputs for Soil

Variable	Value
EF_{2-6} (mutagenic exposure frequency) day/year	350
EF_{6-16} (mutagenic exposure frequency) day/year	350
EF_{16-26} (mutagenic exposure frequency) day/year	350
$IFS_{res-adj}$ (age-adjusted soil ingestion factor) mg/kg	36750
$IFSM_{res-adj}$ (mutagenic age-adjusted soil ingestion factor) mg/kg	166833.33
IRS_{res-c} (soil intake rate - child) mg/day	200
IRS_{res-a} (soil intake rate - adult) mg/day	100
IRS_{0-2} (mutagenic soil intake rate) mg/day	200
IRS_{2-6} (mutagenic soil intake rate) mg/day	200
IRS_{6-16} (mutagenic soil intake rate) mg/day	100
IRS_{16-26} (mutagenic soil intake rate) mg/day	100
AF_{res-a} (skin adherence factor - adult) mg/cm ^{2}	0.07
AF_{res-c} (skin adherence factor - child) mg/cm ^{2}	0.2
AF_{0-2} (mutagenic skin adherence factor) mg/cm ^{2}	0.2
AF_{2-6} (mutagenic skin adherence factor) mg/cm ^{2}	0.2
AF_{6-16} (mutagenic skin adherence factor) mg/cm ^{2}	0.07
AF_{16-26} (mutagenic skin adherence factor) mg/cm ^{2}	0.07
$DFS_{res-adj}$ (age-adjusted soil dermal factor) mg/kg	103390
$DFSM_{res-adj}$ (mutagenic age-adjusted soil dermal factor) mg/kg	428260
City (Climate Zone) PEF Selection	Default
A_s (acres)	.5
Q/C_{wp} (g/m^2-s per kg/m^3)	93.77
PEF (particulate emission factor) m ^{3}/kg	1359344438
A (PEF Dispersion Constant)	16.2302
B (PEF Dispersion Constant)	18.7762
C (PEF Dispersion Constant)	216.108
V (fraction of vegetative cover) unitless	0.5
U_m (mean annual wind speed) m/s	4.69
U_t (equivalent threshold value)	11.32
F(x) (function dependant on U_m/U_t) unitless	0.194
City (Climate Zone) VF Selection	Default
A_s (acres)	.5
Q/C_{vol} (g/m^2-s per kg/m^3)	68.18

Output generated 24AUG2016:15:29:31

Site-specific

Resident Equation Inputs for Soil

Variable	Value
foc (fraction organic carbon in soil) g/g	0.006
ρ$_b$ (dry soil bulk density) g/cm ^{3}	1.5
ρ$_s$ (soil particle density) g/cm ^{3}	2.65
n (total soil porosity) L_{pore}/L_{soil}	0.43396
θ$_a$ (air-filled soil porosity) L_{air}/L_{soil}	0.28396
θ$_w$ (water-filled soil porosity) L_{water}/L_{soil}	0.15
T (exposure interval) s	819936000
A (VF Dispersion Constant)	11.911
B (VF Dispersion Constant)	18.4385
C (VF Dispersion Constant)	209.7845
City (Climate Zone) VF_{ml} Selection	Default
VF_s (volitization factor) m ^{3}/kg	
Q/C_{vol} (g/m^2-s per kg/m^3)	68.18365
A_e (acres)	.5
T (exposure interval) yr	26
d_e (depth of source) m	
ρ$_b$ (dry soil bulk density) g/cm ^{3}	1.5
A (VF Dispersion Constant - Mass Limit)	11.911
B (VF Dispersion Constant - Mass Limit)	18.4385
C (VF Dispersion Constant - Mass Limit)	209.7845

Site-specific

Resident Screening Levels (RSL) for Soil

ca=Cancer, nc=Noncancer, ca* (Where nc SL < 100 x ca SL),
ca** (Where nc SL < 10 x ca SL), max=SL exceeds ceiling limit (see User's Guide), sat=SL exceeds csat,
Smax=Soil SL exceeds ceiling limit and has been substituted with the max value (see User's Guide),
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	Mutagen?	VOC?	Ingestion SF (mg/kg-day)$^{-1}$	SFO Ref	Inhalation Unit Risk (ug/m^3)$^{-1}$	IUR Ref	Chronic RfD (mg/kg-day)	Chronic RfD Ref	Chronic RfC (mg/m^3)	Chronic RfC Ref	GIABS
Mineral oils	8012-95-1	No	Yes	-		-		3.00E+00	U	-		1

Chemical	ABS	RBA	Volatilization Factor (m^3/kg)	Henrys law constant	Soil Saturation Concentration (mg/kg)	Particulate Emission Factor (m^3/kg)	Ingestion SL TR=1.0E-6 (mg/kg)	Dermal SL TR=1.0E-6 (mg/kg)	Inhalation SL TR=1.0E-6 (mg/kg)	Carcinogenic SL TR=1.0E-6 (mg/kg)
Mineral oils	-	1	1.38E+03	334	3.41E-01	1.36E+09	-	-	-	-

Chemical	Ingestion SL Child THQ=1 (mg/kg)	Dermal SL Child THQ=1 (mg/kg)	Inhalation SL Child THQ=1 (mg/kg)	Noncarcinogenic SL Child THI=1 (mg/kg)	Ingestion SL Adult THQ=1 (mg/kg)	Dermal SL Adult THQ=1 (mg/kg)	Inhalation SL Adult THQ=1 (mg/kg)	Noncarcinogenic SL Adult THI=1 (mg/kg)	Screening Level (mg/kg)
Mineral oils	2.35E+05	-	-	2.35E+05	2.50E+06	-	-	2.50E+06	[illegible]

Site-specific

Resident Risk for Soil

Chemical	Ingestion SF (mg/kg-day)$^{-1}$	SFO Ref	Inhalation Unit Risk (ug/m^3)$^{-1}$	IUR Ref	Chronic RfD (mg/kg-day)	Chronic RfD Ref	Chronic RfC (mg/m^3)	Chronic RfC Ref	GIABS	ABS	RBA	Volatilization Factor (m^3/kg)	Henrys law constant
Mineral oils	-		-		3.00E+00	U	-		1	-	1	1.38E+03	334
*Total Risk/HI	-		-		-		-		-	-	-	-	-

Chemical	Soil Saturation Concentration (mg/kg)	Particulate Emission Factor (m^3/kg)	Concentration (mg/kg)	Ingestion Risk	Dermal Risk	Inhalation Risk	Carcinogenic Risk	Ingestion Child HQ	Dermal Child HQ	Inhalation Child HQ
Mineral oils	3.41E-01	1.36E+09	4.40E+04	-	-	-	-	1.88E-01	-	-
*Total Risk/HI	-	-	-	-	-	-	-	*1.88E-01*	-	-

Chemical	Noncarcinogenic Child HI	Ingestion Adult HQ	Dermal Adult HQ	Inhalation Adult HQ	Noncarcinogenic Adult HI
Mineral oils	1.88E-01	1.76E-02	-	-	1.76E-02
*Total Risk/HI	*1.88E-01*	*1.76E-02*	-	-	*1.76E-02*

Site-specific

Resident Equation Inputs for Soil

Variable	Value
THQ (target hazard quotient) unitless	1
TR (target risk) unitless	1.0E-6
LT (lifetime) year	70
ET_{res} (exposure time) hour	24
ET_{res-c} (child exposure time) hour	24
ET_{res-a} (adult exposure time) hour	24
ET_{0-2} (mutagenic exposure time) hour	24
ET_{2-6} (mutagenic exposure time) hour	24
ET_{6-16} (mutagenic exposure time) hour	24
ET_{16-26} (mutagenic exposure time) hour	24
ED_{res} (exposure duration) year	26
ED_{res-c} (exposure duration - child) year	6
ED_{res-a} (exposure duration - adult) year	20
ED_{0-2} (mutagenic exposure duration) year	2
ED_{2-6} (mutagenic exposure duration) year	4
ED_{6-16} (mutagenic exposure duration) year	10
ED_{16-26} (mutagenic exposure duration) year	10
BW_{res-c} (body weight - child) kg	15
BW_{res-a} (body weight - adult) kg	80
BW_{0-2} (mutagenic body weight) kg	15
BW_{2-6} (mutagenic body weight) kg	15
BW_{6-16} (mutagenic body weight) kg	80
BW_{16-26} (mutagenic body weight) kg	80
SA_{res-c} (skin surface area - child) cm^2/day	2373
SA_{res-a} (skin surface area - adult) cm^2/day	6032
SA_{0-2} (mutagenic skin surface area) cm^2/day	2373
SA_{2-6} (mutagenic skin surface area) cm^2/day	2373
SA_{6-16} (mutagenic skin surface area) cm^2/day	6032
SA_{16-26} (mutagenic skin surface area) cm^2/day	6032
EF_{res} (exposure frequency) day/year	350
EF_{res-c} (exposure frequency - child) day/year	350
EF_{res-a} (exposure frequency - adult) day/year	350
EF_{0-2} (mutagenic exposure frequency) day/year	350

Site-specific

Resident Equation Inputs for Soil

Variable	Value
EF_{2-6} (mutagenic exposure frequency) day/year	350
EF_{6-16} (mutagenic exposure frequency) day/year	350
EF_{16-26} (mutagenic exposure frequency) day/year	350
$IFS_{res-adj}$ (age-adjusted soil ingestion factor) mg/kg	36750
$IFSM_{res-adj}$ (mutagenic age-adjusted soil ingestion factor) mg/kg	166833.33
IRS_{res-c} (soil intake rate - child) mg/day	200
IRS_{res-a} (soil intake rate - adult) mg/day	100
IRS_{0-2} (mutagenic soil intake rate) mg/day	200
IRS_{2-6} (mutagenic soil intake rate) mg/day	200
IRS_{6-16} (mutagenic soil intake rate) mg/day	100
IRS_{16-26} (mutagenic soil intake rate) mg/day	100
AF_{res-a} (skin adherence factor - adult) mg/cm ^{2}	0.07
AF_{res-c} (skin adherence factor - child) mg/cm ^{2}	0.2
AF_{0-2} (mutagenic skin adherence factor) mg/cm ^{2}	0.2
AF_{2-6} (mutagenic skin adherence factor) mg/cm ^{2}	0.2
AF_{6-16} (mutagenic skin adherence factor) mg/cm ^{2}	0.07
AF_{16-26} (mutagenic skin adherence factor) mg/cm ^{2}	0.07
$DFS_{res-adj}$ (age-adjusted soil dermal factor) mg/kg	103390
$DFSM_{res-adj}$ (mutagenic age-adjusted soil dermal factor) mg/kg	428260
City (Climate Zone) PEF Selection	Default
A_s (acres)	.5
Q/C_{wp} (g/m^2-s per kg/m^3)	93.77
PEF (particulate emission factor) m ^{3}/kg	1359344438
A (PEF Dispersion Constant)	16.2302
B (PEF Dispersion Constant)	18.7762
C (PEF Dispersion Constant)	216.108
V (fraction of vegetative cover) unitless	0.5
U_m (mean annual wind speed) m/s	4.69
U_t (equivalent threshold value)	11.32
F(x) (function dependant on U_m/U_t) unitless	0.194
City (Climate Zone) VF Selection	Default
A_s (acres)	.5
Q/C_{vol} (g/m^2-s per kg/m^3)	68.18

Output generated 24AUG2016:16:03:38

Site-specific

Resident Equation Inputs for Soil

Variable	Value
foc (fraction organic carbon in soil) g/g	0.006
ρ$_b$ (dry soil bulk density) g/cm ^{3}	1.5
ρ$_s$ (soil particle density) g/cm ^{3}	2.65
n (total soil porosity) L_{pore}/L_{soil}	0.43396
θ$_a$ (air-filled soil porosity) L_{air}/L_{soil}	0.28396
θ$_w$ (water-filled soil porosity) L_{water}/L_{soil}	0.15
T (exposure interval) s	819936000
A (VF Dispersion Constant)	11.911
B (VF Dispersion Constant)	18.4385
C (VF Dispersion Constant)	209.7845
City (Climate Zone) VF_{mi} Selection	Default
VF_s (volitization factor) m ^{3}/kg	-
Q/C_{vol} (g/m^2-s per kg/m^3)	68.18365
A_c (acres)	.5
T (exposure interval) yr	26
d_c (depth of source) m	-
ρ$_b$ (dry soil bulk density) g/cm ^{3}	1.5
A (VF Dispersion Constant - Mass Limit)	11.911
B (VF Dispersion Constant - Mass Limit)	18.4385
C (VF Dispersion Constant - Mass Limit)	209.7845

Site-specific

Resident Screening Levels (RSL) for Soil

ca=Cancer, nc=Noncancer, ca* (Where nc SL < 100 x ca SL),
ca** (Where nc SL < 10 x ca SL), max=SL exceeds ceiling limit (see User's Guide), sat=SL exceeds csat,
Smax=Soil SL exceeds ceiling limit and has been substituted with the max value (see User's Guide),
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	Mutagen?	VOC?	Ingestion SF $(mg/kg\text{-}day)^{-1}$	SFO Ref	Inhalation Unit Risk $(ug/m^3)^{-1}$	IUR Ref	Chronic RfD (mg/kg-day)	Chronic RfD Ref	Chronic RfC (mg/m^3)	Chronic RfC Ref	GIABS	ABS
Naphtha, High Flash Aromatic (HFAN)	64742-95-6	No	Yes	-		-		3.00E-02	S	1.00E-01	P	1	-

Chemical	RBA	Volatilization Factor (m^3/kg)	Henry's Law Constant	Soil Saturation Concentration (mg/kg)	Particulate Emission Factor (m^3/kg)	Ingestion SL TR=1.0E-6 (mg/kg)	Dermal SL TR=1.0E-6 (mg/kg)	Inhalation SL TR=1.0E-6 (mg/kg)	Carcinogenic SL TR=1.0E-6 (mg/kg)	Ingestion SL Child THQ=1 (mg/kg)
Naphtha, High Flash Aromatic (HFAN)	1	-	0.0179886	-	1.36E+09	-	-	-	-	2.35E+03

Chemical	Dermal SL Child THQ=1 (mg/kg)	Inhalation SL Child THQ=1 (mg/kg)	Noncarcinogenic SL Child THI=1 (mg/kg)	Ingestion SL Adult THQ=1 (mg/kg)	Dermal SL Adult THQ=1 (mg/kg)	Inhalation SL Adult THQ=1 (mg/kg)	Noncarcinogenic SL Adult THI=1 (mg/kg)	Screening Level (mg/kg)
Naphtha, High Flash Aromatic (HFAN)	-	1.42E+08	2.35E+03	2.50E+04	-	1.42E+08	2.50E+04	

Site-specific
Resident Risk for Soil

Chemical	Ingestion SF (mg/kg-day)$^{-1}$	SFO Ref	Inhalation Unit Risk (ug/m^3)$^{-1}$	IUR Ref	Chronic RfD (mg/kg-day)	Chronic RfD Ref	Chronic RfC (mg/m^3)	Chronic RfC Ref	GIABS	ABS	RBA	Volatilization Factor (m^3/kg)
Naphtha, High Flash Aromatic (HFAN)	-		-		3.00E-02	S	1.00E-01	P	1	-	1	-
*Total Risk/HI	-		-		-		-		-	-	-	-

Chemical	Henry's Law Constant	Soil Saturation Concentration (mg/kg)	Particulate Emission Factor (m^3/kg)	Concentration (mg/kg)	Ingestion Risk	Dermal Risk	Inhalation Risk	Carcinogenic Risk	Ingestion Child HQ
Naphtha, High Flash Aromatic (HFAN)	0.0179886	-	1.36E+09	4.40E+04	-	-	-	-	1.88E+01
*Total Risk/HI	-	-	-	-	-	-	-	-	*1.88E+01*

Chemical	Dermal Child HQ	Inhalation Child HQ	Noncarcinogenic Child HI	Ingestion Adult HQ	Dermal Adult HQ	Inhalation Adult HQ	Noncarcinogenic Adult HI
Naphtha, High Flash Aromatic (HFAN)	-	3.10E-04	1.88E+01	1.76E+00	-	3.10E-04	1.76E+00
*Total Risk/HI	-	*3.10E-04*	*1.88E+01*	*1.76E+00*	-	*3.10E-04*	*1.76E+00*

Site-specific

Resident Equation Inputs for Soil

Variable	Value
THQ (target hazard quotient) unitless	1
TR (target risk) unitless	1.0E-6
LT (lifetime) year	70
ET_{res} (exposure time) hour	24
ET_{res-c} (child exposure time) hour	24
ET_{res-a} (adult exposure time) hour	24
ET_{0-2} (mutagenic exposure time) hour	24
ET_{2-6} (mutagenic exposure time) hour	24
ET_{6-16} (mutagenic exposure time) hour	24
ET_{16-26} (mutagenic exposure time) hour	24
ED_{res} (exposure duration) year	26
ED_{res-c} (exposure duration - child) year	6
ED_{res-a} (exposure duration - adult) year	20
ED_{0-2} (mutagenic exposure duration) year	2
ED_{2-6} (mutagenic exposure duration) year	4
ED_{6-16} (mutagenic exposure duration) year	10
ED_{16-26} (mutagenic exposure duration) year	10
BW_{res-c} (body weight - child) kg	15
BW_{res-a} (body weight - adult) kg	80
BW_{0-2} (mutagenic body weight) kg	15
BW_{2-6} (mutagenic body weight) kg	15
BW_{6-16} (mutagenic body weight) kg	80
BW_{16-26} (mutagenic body weight) kg	80
SA_{res-c} (skin surface area - child) cm^2/day	2373
SA_{res-a} (skin surface area - adult) cm^2/day	6032
SA_{0-2} (mutagenic skin surface area) cm^2/day	2373
SA_{2-6} (mutagenic skin surface area) cm^2/day	2373
SA_{6-16} (mutagenic skin surface area) cm^2/day	6032
SA_{16-26} (mutagenic skin surface area) cm^2/day	6032
EF_{res} (exposure frequency) day/year	350
EF_{res-c} (exposure frequency - child) day/year	350
EF_{res-a} (exposure frequency - adult) day/year	350
EF_{0-2} (mutagenic exposure frequency) day/year	350

Site-specific

Resident Equation Inputs for Soil

Variable	Value
EF_{2-6} (mutagenic exposure frequency) day/year	350
EF_{6-16} (mutagenic exposure frequency) day/year	350
EF_{16-26} (mutagenic exposure frequency) day/year	350
$IFS_{res-adj}$ (age-adjusted soil ingestion factor) mg/kg	36750
$IFSM_{res-adj}$ (mutagenic age-adjusted soil ingestion factor) mg/kg	166833.33
IRS_{res-c} (soil intake rate - child) mg/day	200
IRS_{res-a} (soil intake rate - adult) mg/day	100
IRS_{0-2} (mutagenic soil intake rate) mg/day	200
IRS_{2-6} (mutagenic soil intake rate) mg/day	200
IRS_{6-16} (mutagenic soil intake rate) mg/day	100
IRS_{16-26} (mutagenic soil intake rate) mg/day	100
AF_{res-a} (skin adherence factor - adult) mg/cm ^{2}	0.07
AF_{res-c} (skin adherence factor - child) mg/cm ^{2}	0.2
AF_{0-2} (mutagenic skin adherence factor) mg/cm ^{2}	0.2
AF_{2-6} (mutagenic skin adherence factor) mg/cm ^{2}	0.2
AF_{6-16} (mutagenic skin adherence factor) mg/cm ^{2}	0.07
AF_{16-26} (mutagenic skin adherence factor) mg/cm ^{2}	0.07
$DFS_{res-adj}$ (age-adjusted soil dermal factor) mg/kg	103390
$DFSM_{res-adj}$ (mutagenic age-adjusted soil dermal factor) mg/kg	428260
City (Climate Zone) PEF Selection	Default
A_s (acres)	.5
Q/C_{wp} (g/m²-s per kg/m³)	93.77
PEF (particulate emission factor) m ^{3}/kg	1359344438
A (PEF Dispersion Constant)	16.2302
B (PEF Dispersion Constant)	18.7762
C (PEF Dispersion Constant)	216.108
V (fraction of vegetative cover) unitless	0.5
U_m (mean annual wind speed) m/s	4.69
U_t (equivalent threshold value)	11.32
F(x) (function dependant on U_m/U_t) unitless	0.194
City (Climate Zone) VF Selection	Default
A_s (acres)	.5
Q/C_{vol} (g/m²-s per kg/m³)	68.18

Output generated 26AUG2016:12:34:33

Site-specific

Resident Equation Inputs for Soil

Variable	Value
foc (fraction organic carbon in soil) g/g	0.006
ρ$_b$ (dry soil bulk density) g/cm ^{3}	1.5
ρ$_s$ (soil particle density) g/cm ^{3}	2.65
n (total soil porosity) L $_{pore}$/L$_{soil}$	0.43396
θ$_a$ (air-filled soil porosity) L $_{air}$/L$_{soil}$	0.28396
θ$_w$ (water-filled soil porosity) L $_{water}$/L$_{soil}$	0.15
T (exposure interval) s	819936000
A (VF Dispersion Constant)	11.911
B (VF Dispersion Constant)	18.4385
C (VF Dispersion Constant)	209.7845
City (Climate Zone) VF $_{ml}$ Selection	Default
VF$_s$ (volitization factor) m ^{3}/kg	.
Q/C$_{vol}$ (g/m^2-s per kg/m^3)	68.18365
A$_s$ (acres)	.5
T (exposure interval) yr	26
d$_s$ (depth of source) m	.
ρ$_b$ (dry soil bulk density) g/cm ^{3}	1.5
A (VF Dispersion Constant - Mass Limit)	11.911
B (VF Dispersion Constant - Mass Limit)	18.4385
C (VF Dispersion Constant - Mass Limit)	209.7845

Site-specific

Resident Screening Levels (RSL) for Soil

ca=Cancer, nc=Noncancer, ca* (Where nc SL < 100 x ca SL),
ca** (Where nc SL < 10 x ca SL), max=SL exceeds ceiling limit (see User's Guide), sat=SL exceeds csat,
Smax=Soil SL exceeds ceiling limit and has been substituted with the max value (see User's Guide),
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	Mutagen?	VOC?	Ingestion SF (mg/kg-day)$^{-1}$	SFO Ref	Inhalation Unit Risk (ug/m^3)$^{-1}$	IUR Ref	Chronic RfD (mg/kg-day)	Chronic RfD Ref	Chronic RfC (mg/m^3)	Chronic RfC Ref	GIABS	ABS
Methyl Isobutyl Ketone (4-methyl-2-pentanone)	108-10-1	No	Yes	-		-		-		3.00E+00	I	1	-

Chemical	RBA	Volatilization Factor (m^3/kg)	Henry's Law Constant	Soil Saturation Concentration (mg/kg)	Particulate Emission Factor (m^3/kg)	Ingestion SL TR=1.0E-6 (mg/kg)	Dermal SL TR=1.0E-6 (mg/kg)	Inhalation SL TR=1.0E-6 (mg/kg)	Carcinogenic SL TR=1.0E-6 (mg/kg)
Methyl Isobutyl Ketone (4-methyl-2-pentanone)	1	1.06E+04	0.0056419	3.36E+03	1.36E+09	-	-	-	-

Chemical	Ingestion SL Child THQ=1 (mg/kg)	Dermal SL Child THQ=1 (mg/kg)	Inhalation SL Child THQ=1 (mg/kg)	Noncarcinogenic SL Child THI=1 (mg/kg)	Ingestion SL Adult THQ=1 (mg/kg)	Dermal SL Adult THQ=1 (mg/kg)	Inhalation SL Adult THQ=1 (mg/kg)	Noncarcinogenic SL Adult THI=1 (mg/kg)	Screening Level (mg/kg)
Methyl Isobutyl Ketone (4-methyl-2-pentanone)	-	-	3.31E+04	3.31E+04	-	-	3.31E+04	3.31E+04	

Site-specific

Resident Risk for Soil

Chemical	Ingestion SF (mg/kg-day)$^{-1}$	SFO Ref	Inhalation Unit Risk (ug/m^3)$^{-1}$	IUR Ref	Chronic RfD (mg/kg-day)	Chronic RfD Ref	Chronic RfC (mg/m^3)	Chronic RfC Ref	GIABS	ABS	RBA	Volatilization Factor (m^3/kg)
Methyl Isobutyl Ketone (4-methyl-2-pentanone)	-		-		-		3.00E+00	I	1	-	1	1.06E+04
*Total Risk/HI	-		-		-		-		-	-	-	-

Chemical	Henry's Law Constant	Soil Saturation Concentration (mg/kg)	Particulate Emission Factor (m^3/kg)	Concentration (mg/kg)	Ingestion Risk	Dermal Risk	Inhalation Risk	Carcinogenic Risk	Ingestion Child HQ
Methyl Isobutyl Ketone (4-methyl-2-pentanone)	0.0056419	3.36E+03	1.36E+09	6.30E-02	-	-	-	-	-
*Total Risk/HI	-	-	-	-	-	-	-	-	-

Chemical	Dermal Child HQ	Inhalation Child HQ	Noncarcinogenic Child HI	Ingestion Adult HQ	Dermal Adult HQ	Inhalation Adult HQ	Noncarcinogenic Adult HI
Methyl Isobutyl Ketone (4-methyl-2-pentanone)	-	1.91E-06	1.91E-06	-	-	1.91E-06	1.91E-06
*Total Risk/HI	-	1.91E-06	1.91E-06	-	-	1.91E-06	1.91E-06

CALIFORNIA STATE UNIVERSITY FULLERTON
Environmental Health and Safety

INCIDENT INSPECTION REPORT

Location:	**Elm Student Housing – Elevator #2**
Person in Charge:	**Michael Anthony**
Inspector:	**Pearl Boelter, Robert Denman**
Date/Time:	**5-26-16 / 10:15 am**

Comments:

Background:

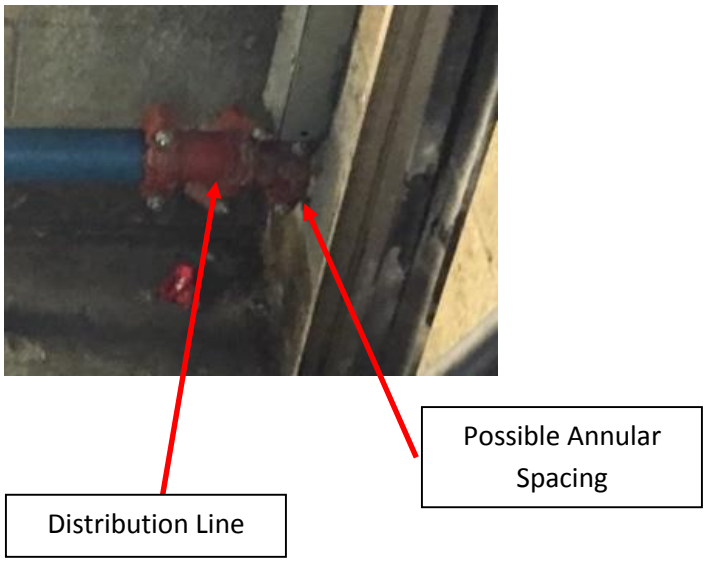
Elm #2 elevator became non-functional, therefore preliminary inspection of system was performed. It was determined that system hydraulic fluid reservoir was excessively low. Considerable amount of fluid loss (approx. 50 to 100 gal.) could not be contributed to normal operation. Contractor was instructed to raise elevator so pit and associated equipment could be inspected. No obvious signs of hydraulic system failure were identified. Contractor isolated distribution piping connecting reservoir to actuator and performed pressure test on line. The piping would not maintain pressure, demonstrating the line had been breached. Distribution line is believed to be double-walled, but has not been confirmed.

Recommendation:

EHS recommends that a third party consultant conduct a risk analysis involving modeling that would address the risk to the surrounding environment (soil/water) and the risk to the residential population associated with approximately 100 gallons of hydraulic fluid under the Elm building.

Mechanical Room

Elevator Pit



Lauren Kodama Roenicke

From: Monfared, Hossein@CALFIRE <Hossein.Monfared@fire.ca.gov>
Sent: Tuesday, July 23, 2019 8:28 AM
To: Lauren Kodama Roenicke
Subject: RE: CAL0362 - Abandoned Pipeline - Abandonment Date

CAUTION: This email originated from outside of Rincon Consultants. Be cautious before clicking on any links, or opening any attachments, until you are confident that the content is safe .

Good Morning;

In regards to Pipeline ID CAL0362, OSFM Line ID 0578, we have no data. The pipeline was idle since 1985 which later was officially abandoned. It used to belong to Chevron and for more information Chevron might be able to help you. Thanks

---

From: Lauren Kodama Roenicke [mailto:lroenicke@rinconconsultants.com]
Sent: Monday, July 22, 2019 11:26 AM
To: Monfared, Hossein@CALFIRE <Hossein.Monfared@fire.ca.gov>
Cc: Nguyen, Huy@CALFIRE <Huy.Nguyen@fire.ca.gov>
Subject: RE: CAL0362 - Abandoned Pipeline - Abandonment Date

Warning: this message is from an external user and should be treated with caution.

Hossein—

See attached for the pipeline info provided on NPMS. It looks like it runs along the current Gymnasium Campus Drive in Fullerton.

Thanks,

Lauren Kodama Roenicke, Environmental Scientist
Rincon Consultants, Inc.
Environmental Scientists | Planners | Engineers
760-918-9444 x210
619-204-3985 Mobile
760-517-9138 Direct
rinconconsultants.com

Ranked 2018 "Hot Firm List" by Zweig Group

From: Monfared, Hossein@CALFIRE [mailto:Hossein.Monfared@fire.ca.gov]
Sent: Monday, July 22, 2019 10:25 AM
To: Lauren Kodama Roenicke

Cc: Nguyen, Huy@CALFIRE
Subject: RE: CAL0362 - Abandoned Pipeline - Abandonment Date

CAUTION: This email originated from outside of Rincon Consultants. Be cautious before clicking on any links, or opening any attachments, until you are confident that the content is safe .

Hi Lauren;

The pipeline ID, CAL0362, you provided is not in our database. Will you please be more specific as where the pipeline location, street, is?

From: Lauren Kodama Roenicke [mailto:lroenicke@rinconconsultants.com]
Sent: Monday, July 22, 2019 9:12 AM
To: Monfared, Hossein@CALFIRE <Hossein.Monfared@fire.ca.gov>
Cc: Nguyen, Huy@CALFIRE <Huy.Nguyen@fire.ca.gov>
Subject: CAL0362 - Abandoned Pipeline - Abandonment Date

Warning: this message is from an external user and should be treated with caution.

Hossein—

I am looking for information on the abandonment date of the abandoned pipeline identified as CAL0362. This pipeline runs through Fullerton, California.

Thank you!

Lauren Kodama Roenicke, Environmental Scientist
Rincon Consultants, Inc.
Environmental Scientists | Planners | Engineers
760-918-9444 x210
619-204-3985 Mobile
760-517-9138 Direct
rinconconsultants.com

Ranked 2019 "Hot Firm List" by Zweig Group

Appendix D

Regulatory Records Search

Cal State University Fullerton
800 N State College Boulevard
Fullerton, CA 92831

Inquiry Number: 05685060.2r
June 15, 2019

The EDR Radius Map™ Report with GeoCheck®

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

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Detail Map	3
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Map Findings	9
Orphan Summary	785
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Physical Setting Source Records Searched	PSGR-1

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

800 N STATE COLLEGE BOULEVARD
FULLERTON, CA 92831

COORDINATES

Latitude (North):	33.8831490 - 33˚ 52' 59.33''
Longitude (West):	117.8854040 - 117˚ 53' 7.45''
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	418120.0
UTM Y (Meters):	3749358.5
Elevation:	250 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	5640256 LA HABRA, CA
Version Date:	2012
Northeast Map:	5640946 YORBA LINDA, CA
Version Date:	2012
Southeast Map:	5641308 ORANGE, CA
Version Date:	2012
Southwest Map:	5641294 ANAHEIM, CA
Version Date:	2012

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20140514, 20140513
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
800 N STATE COLLEGE BOULEVARD
FULLERTON, CA 92831

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
A1		800 NORTH STATE COLL	ERNS		TP
A2	CALIFORNIA STATE UNI	800 N STATE COLLEGE	CA LUST, CA HIST UST, CA CHMIRS, CA EMI, CA NPDES,...		TP
A3		800 NORTH STATE COLL	ERNS		TP
A4		800 NORTH STATE COLL	ERNS		TP
A5	CSUF PHYSICAL PLANT	800 N STATE COLLEGE	FINDS		TP
A6	CALIFORNIA STATE UNI	800 N STATE COLLEGE	CA CIWQS		TP
A7	CSUF PHYSICAL PLANT	800 N STATE COLLEGE	CA RGA LUST		TP
A8	TITAN STUDENT UNION	800 NORTH STATE COLL	CA LUST, CA CHMIRS, CA NPDES, CA CIWQS, CA CERS		TP
A9		800 NORTH STATE COLL	ERNS		TP
A10		800 NORTH STATE COLL	ERNS		TP
A11		800 NORTH STATE COLL	ERNS		TP
A12	CALIFORNIA STATE UNI	800 N. STATE COLLEGE	RCRA-LQG, CA UST		TP
A13	PARKING STRUCTURE NO	800 N STATE COLLEGE	CA NPDES, CA CIWQS		TP
A14	PARKING STRUCTURE NO	800 NORTH STATE COLL	CA CIWQS		TP
A15		800 N STATE COLLEGE	CA AST		TP
A16		800 NORTH STATE COLL	ERNS		TP
A17		800 NORTH STATE COLL	ERNS		TP
A18		800 NORTH STATE COLL	CA CHMIRS		TP
A19	CALIFORNIA STATE UNI	800 NORTH STATE COLL	NY MANIFEST		TP
A20	CALIFORNIA STATE UNI	800 NORTH STATE COLL	CA CIWQS, CA CERS		TP
A21	CSUF CHILDRENS CENTE	800 N STATE COLLEGE	CA CIWQS		TP
A22		800 NORTH STATE COLL	ERNS		TP
A23	CALIFORNIA STATE UNI	800 N STATE COLLEGE	CA CERS HAZ WASTE, CA CERS TANKS, CA HAZNET, CA...		TP
A24		800 NORTH STATE COLL	CA CHMIRS		TP
A25	CALIFORNIA STATE UNI	800 N STATE COLLEGE	CA SWEEPS UST		TP
A26	CALIFORNIA STATE UNI	800 N. STATE COLLEGE	MLTS		TP
A27	CSUF STUDENT RECREAT	800 N STATE COLLEBE	CA CIWQS		TP
A28	AUDITORIUM & FINE AR	800 N STATE COLLEGE	CA CIWQS		TP
A29	CSU FULLERTON PARKIN	800 N STATE COLLEGE	CA CIWQS		TP
A30	CALIFORNIA STATE UNI	800 N STATE COLLEGE	FINDS, ECHO		TP
A31		800 NORTH STATE COLL	CA CHMIRS		TP
A32		800 NORTH STATE COLL	ERNS		TP
A33		800 NORTH STATE COLL	ERNS		TP
A34		800 NORTH STATE COLL	ERNS		TP
A35		800 NORTH STATE COLL	ERNS		TP
B36	THE MARRIOTT HOTEL A	2701 NUTWOOD AVE	CA HAZNET	Lower	1 ft.
C37	CAL STATE UNIV FULLE	880 STATE COLLEGE	CA HIST CORTESE	Lower	1 ft.
38	CALIF STATE UNIVERSI	800 STATE COLLEGE	CA LUST, CA HIST CORTESE, CA CERS	Higher	1 ft.
B39	MARRIOTT HOTEL	2701 E NUTWOOD AVE	CA EMI, CA CERS	Lower	1 ft.

MAPPED SITES SUMMARY

Target Property Address:
800 N STATE COLLEGE BOULEVARD
FULLERTON, CA 92831

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
C40	CAL STATE UNIV FULLE	880 NORTH STATE COLL	CA RGA LUST	Lower	1 ft.
41	WINONICS	1257 STATE COLLEGE B	CA CPS-SLIC, CA CERS	Lower	1 ft.
D42	CALIF STATE UNIVERSI	800 STATE COLLEGE	FINDS	Lower	1 ft.
D43	CAL STATE FULLERTON	800 STATE COLLEGE	FINDS	Lower	1 ft.
E44		MCCARTHY HALL/800 N.	CA CHMIRS	Higher	1 ft.
E45	DEREK J DOBBS	1900 ASSOCIATED RD	CA PEST LIC	Higher	1 ft.
F46	FULLERVALE ASSOCIATE	2600 EAST NUTWOOD AV	CA HAZNET	Lower	1 ft.
F47	RHODES GROUP & FULLE	2600 NUTWOOD AVENUE	CA HAZNET	Lower	1 ft.
F48	CSU FULLERTON COLLEG	2555 E NUTWOOD AVE	CA CIWQS	Lower	1 ft.
F49	SHELDON STEVENS INC	2600 NUTWOOD AVENUE	CA HAZNET	Lower	1 ft.
F50	CAL STATE FULLERTON	2600 NUTWOOD AVE	CA HAZNET	Lower	1 ft.
F51	COLLEGE PARK	2600 NUTWOOD AVE	CA HAZNET	Lower	1 ft.
F52		NUTWOOD AVE. & LANGS	CA CHMIRS	Lower	1 ft.
G53	TROY HIGH SCHOOL	2200 EAST DOROTHY LA	CA ENVIROSTOR, CA SCH, CA CERS	Lower	8, 0.002, WSW
G54	TROY HIGH SCHOOL	2200 DOROTHY LN	CA CERS HAZ WASTE, CA CERS	Lower	8, 0.002, WSW
G55	FULLERTON JUHSD-TROY	2200 E DOROTHY LN	RCRA NonGen / NLR	Lower	8, 0.002, WSW
56	MARSHALL B. KETCHUM	2575 YORBA LINDA BLV	RCRA NonGen / NLR	Higher	90, 0.017, North
H57	COLLEGE PARK SERVICE	2601 E YORBA LINDA B	CA UST	Higher	171, 0.032, North
H58	COLLEGE PARK SERVICE	2601 YORBA LINDA BLV	EDR Hist Auto	Higher	171, 0.032, North
H59	CIRCLE K STORES INC.	2601 EAST YORBA LIND	CA UST	Higher	171, 0.032, North
H60	RONALD DAVIS MOBIL (	2601 YORBA LINDA BLV	CA UST	Higher	171, 0.032, North
H61	RONALD DAVIS	2601 YORBA LINDA BLV	CA HIST UST	Higher	171, 0.032, North
H62	COLLEGE PARK SERVICE	2601 YORBA LINDA BLV	RCRA NonGen / NLR	Higher	171, 0.032, North
H63	RONALD DAVIS MOBIL (	2601 YORBA LINDA BLV	CA SWEEPS UST	Higher	171, 0.032, North
H64	COLLEGE PARK SERVICE	2601 E YORBA LINDA B	CA LUST, CA CERS HAZ WASTE, CA CERS TANKS, CA CERS	Higher	171, 0.032, North
H65	EXXONMOBIL OIL CORP	2601 E YORBA LINDA B	RCRA-SQG, FINDS, ECHO	Higher	171, 0.032, North
H66	RONALD DAVIS MOBIL (	2601 YORBA LINDA BLV	CA LUST, CA FID UST, CA HAZNET, CA HIST CORTESE	Higher	171, 0.032, North
67	LA VISTA HIGH SCHOOL	909 NORTH STATE COLL	CA ENVIROSTOR, CA SCH	Lower	240, 0.045, SW
68	ONETECH CIRCUIT INC	753 STATE COLLEGE UN	RCRA-SQG, FINDS, ECHO, CA HAZNET	Lower	242, 0.046, SSW
I69	FULLERTON FIRE STATI	2555 YORBA LINDA BLV	CA LUST, CA UST, CA SWEEPS UST	Higher	259, 0.049, NNW
I70	FULLERTON FIRE STATI	2555 YORBA LINDA BLV	CA CERS TANKS, CA FID UST, CA HIST CORTESE, CA...	Higher	259, 0.049, NNW
I71	FULLERTON FIRE STATI	2555 E YORBA LINDA B	CA LUST, CA AST, CA CERS	Higher	259, 0.049, NNW
I72	FIRE DEPT STA 5	2555 YORBA LINDA BLV	CA HIST UST	Higher	259, 0.049, NNW
J73	HOLIDAY ONE HOUR CLE	2601 E CHAPMAN AVE	EDR Hist Cleaner	Lower	442, 0.084, South
74	TOP GUN RETAIL SERVI	2701 E CHAPMAN AVE	EDR Hist Cleaner	Lower	497, 0.094, SSE
J75	OGGI'S PIZZA AND BRE	2595 E CHAPMAN AVE	CA CERS HAZ WASTE, CA CERS	Lower	524, 0.099, South
K76	TRIGEN-LA ENERGY COR	2501 COLLEGE PLACE	CA HIST UST, CA CERS	Lower	576, 0.109, South
L77	MOONRAKER APARTMENTS	2901 NUTWOOD AVE	RCRA NonGen / NLR	Lower	584, 0.111, SE
K78	COLLEGE PARK PLANT	2501 E COLLEGE PL	CA SWEEPS UST, CA HIST UST, CA FID UST	Lower	590, 0.112, South

MAPPED SITES SUMMARY

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MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
K79	COLLEGE PARK PLANT	2501 COLLEGE PL	CA UST	Lower	590, 0.112, South
K80	FIVEPLANTS ASSN COLL	2501 COLLEGE PL	RCRA-SQG, FINDS, ECHO	Lower	590, 0.112, South
81	KMF FULLERTON LLC	2800 MADISON AVE UNI	RCRA NonGen / NLR	Higher	679, 0.129, East
L82	PLACENTIA PLANT	500 PLACENTIA AVENUE	CA HIST UST	Lower	705, 0.134, SE
M83	CHEVRON STATION #960	2950 NUTWOOD AVE	CA FID UST	Lower	832, 0.158, SE
M84	96091	2950 NUTWOOD AVE	CA HIST UST	Lower	832, 0.158, SE
M85	H&S #26	2950 NUTWOOD AVE	CA CERS HAZ WASTE, CA CERS TANKS, CA HAZNET, CA...	Lower	832, 0.158, SE
M86	CHEVRON STATION #609	2950 E NUTWOOD	CA HIST UST, CA HAZNET	Lower	832, 0.158, SE
M87	CHEVRON STATION #9-6	2950 E NUTWOOD AVE	CA SWEEPS UST	Lower	832, 0.158, SE
M88	CHEVRON STATION 9609	2950 E NUTWOOD	RCRA-SQG	Lower	832, 0.158, SE
M89	CHEVRON STATION NO 9	2950 NUTWOOD AVENUE	RCRA NonGen / NLR, FINDS, ECHO	Lower	832, 0.158, SE
M90	H&S #26	2950 NUTWOOD AVE	CA UST	Lower	832, 0.158, SE
M91	EXXON #7-3650	901 N PLACENTIA AVE	CA UST	Lower	882, 0.167, SE
M92	EXXON SERVICE STATIO	901 N PLACENTIA AVE	CA LUST, CA HIST UST, CA CERS	Lower	882, 0.167, SE
M93	EXXON #7-3650	901 N PLACENTIA AVE	CA LUST, CA CERS HAZ WASTE, CA SWEEPS UST, CA CERS...	Lower	882, 0.167, SE
94	DALE & LYNDA MARTIN	535 SYCAMORE AVE	RCRA NonGen / NLR	Lower	1006, 0.191, SSW
N95	HI-LO AUTO SUPPLY	2429 E CHAPMAN AVE	CA CERS HAZ WASTE, CA HAZNET	Lower	1041, 0.197, South
N96	COSMOPROF SUPPLY	2435 E CHAPMAN AVE	CA CERS HAZ WASTE, CA HAZNET, CA CERS	Lower	1041, 0.197, South
O97	ARCO 42004	401 N PLACENTIA AVE	CA UST	Lower	1142, 0.216, SSE
O98	ARCO #0097	401 N PLACENTIA AVEN	CA LUST, CA CERS	Lower	1142, 0.216, SSE
O99	ARCO FAC #97	401 N PLACENTIA AVE	CA LUST, CA CERS HAZ WASTE, CA SWEEPS UST, CA CERS...	Lower	1142, 0.216, SSE
O100	ARCO #0097	401 PLACENTIA AVE	CA LUST, CA HIST CORTESE	Lower	1142, 0.216, SSE
O101	PETROLEUM MRKTG INC	401 N PLACENTIA	CA HIST UST	Lower	1142, 0.216, SSE
102	DORISLEE RAFFERTY	2252 VISTA DEL SOL	RCRA NonGen / NLR	Higher	1189, 0.225, NNW
P103	MOBIL SS #18-FHE	506 N STATE COLLEGE	CA SWEEPS UST, CA HIST UST	Lower	1189, 0.225, SSW
P104	MOBIL BLUE, INC.	506 N STATE COLLEGE	CA UST	Lower	1189, 0.225, SSW
P105	MOBIL #18-FHE	506 N STATE COLLEGE	CA LUST, CA CERS HAZ WASTE, CA CERS TANKS, CA FID...	Lower	1189, 0.225, SSW
P106		506 N STATE COLLEGE	RCRA-LQG	Lower	1189, 0.225, SSW
Q107	M & J EQUIPMENT	450 PLACENTIA	CA LUST, CA HIST CORTESE, CA CERS	Lower	1214, 0.230, SE
Q108	BRISTOL FIBERLITE IN	401	CA HIST CORTESE	Lower	1220, 0.231, SE
N109	SMART & FINAL #425	2475 E CHAPMAN AVE	CA CERS HAZ WASTE, CA HAZNET, CA CERS	Lower	1236, 0.234, SSW
R110	CHEVRON #9-8976	2961 YORBA LINDA BLV	CA LUST, CA CHMIRS, CA HIST CORTESE	Higher	1238, 0.234, NE
R111	CHEVRON STATION #989	2961 E YORBA LINDA B	CA SWEEPS UST, CA FID UST	Higher	1238, 0.234, NE
R112	98976	2961 YORBA LINDA BLV	CA HIST UST	Higher	1238, 0.234, NE
R113	98976	2961 E YORBA LINDA	CA LUST, CA HIST UST, CA CERS	Higher	1238, 0.234, NE
R114	CHEVRON 98976	2961 YORBA LINDA BOU	RCRA-LQG, CA LUST, CA CERS HAZ WASTE, CA CERS...	Higher	1238, 0.234, NE
R115	CHEVRON STATION #989	2961 YORBA LINDA BLV	CA UST	Higher	1238, 0.234, NE
S116	TARGET STORE NO 0293	2920 YORBA LINDA BLV	CA CERS HAZ WASTE, CA HAZNET, CA CERS	Higher	1241, 0.235, NE
S117	FULLERTON RECYCLING	2920 YORBA LINDA BLV	CA SWRCY	Higher	1241, 0.235, NE

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Target Property Address:
800 N STATE COLLEGE BOULEVARD
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MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
S118	T0293	2920 YORBA LINDA BLV	RCRA-LQG	Higher	1241, 0.235, NE
S119	TARGET STORE T0293	2920 YORBA LINDA BLV	RCRA-SQG, ECHO	Higher	1241, 0.235, NE
O120	FULLERTON 76	351 N PLACENTIA AVE	CA UST	Lower	1252, 0.237, SSE
O121	SHELL SERVICE STATIO	351 N PLACENTIA AVE	CA SWEEPS UST, CA FID UST	Lower	1252, 0.237, SSE
O122	SHELL OIL #351	351 PLACENTIA AVE.	CA UST	Lower	1252, 0.237, SSE
O123	SHELL (135315)	351 N PLACENTIA AVE	CA UST	Lower	1252, 0.237, SSE
O124	SHELL SERVICE STATIO	351 N PLACENTIA / CH	RCRA-SQG, FINDS, ECHO	Lower	1252, 0.237, SSE
O125	SHELL	351 PLACENTIA AVE	CA LUST, CA HIST CORTESE	Lower	1252, 0.237, SSE
O126	SEVAN S YAKINIAN	351 N PLAENTIA	CA HIST UST	Lower	1252, 0.237, SSE
O127	SEVAN S YAKINIAN	351 N PLACENTIA	CA LUST, CA HIST UST, CA CERS	Lower	1252, 0.237, SSE
O128	FULLERTON 76	351 N PLACENTIA AVE	CA CERS HAZ WASTE, CA CERS TANKS, CA HAZNET, CA...	Lower	1252, 0.237, SSE
O129	SEVANS SHELL SVC	351 N PLACENTIA AVE	RCRA-SQG	Lower	1252, 0.237, SSE
130	U-HAUL	862 PLACENTIA	CA LUST, CA CERS	Higher	1255, 0.238, ESE
P131	MOBIL #18-FHE	506	CA LUST, CA HIST CORTESE	Lower	1273, 0.241, SSW
N132	DOLLAR TREE #04437	2465 E CHAPMAN AVE	CA CERS HAZ WASTE, CA HAZNET, CA CERS	Lower	1288, 0.244, SSW
P133	OFFICE DEPOT 2215	2429 E CHAPMAN AVENU	RCRA NonGen / NLR	Lower	1295, 0.245, SSW
N134	99 CENTS ONLY STORES	2450 E CHAPMAN AVE	RCRA NonGen / NLR	Lower	1301, 0.246, SSW
N135	99 CENTS ONLY STORES	2450 E CHAPMAN AVE	CA CERS HAZ WASTE, CA HAZNET, CA CERS	Lower	1301, 0.246, SSW
N136	SHELL OIL	2450 E CHAPMAN AVE	CA UST	Lower	1301, 0.246, SSW
T137	ACE CLEANERS	2453 E CHAPMAN AVE	CA DRYCLEANERS, CA HAZNET	Lower	1302, 0.247, SSW
T138	BERKELEY CLEANERS NO	2453 E CHAPMAN	CA DRYCLEANERS	Lower	1302, 0.247, SSW
T139	SHELL SERVICE STATIO	2450	CA LUST, CA HIST CORTESE	Lower	1350, 0.256, SSW
U140	SHELL SERVICE STATIO	2340 CHAPMAN	CA LUST, CA HIST CORTESE	Lower	1358, 0.257, SSW
U141	SHELL #2340	2340 E CHAPMAN AVE	CA LUST, CA HIST UST, CA CERS	Lower	1358, 0.257, SSW
R142	FULLERTON UNIVERSITY	2940/2948 YORBA LIND	CA ENVIROSTOR, CA Orange Co. Industrial Site	Higher	1393, 0.264, NE
V143	STATION #4629	820 W CHAPMAN AVE	CA LUST, CA HIST UST	Lower	1399, 0.265, SSE
V144	UNOCAL #4629	820	CA LUST, CA HIST CORTESE, CA CERS	Lower	1652, 0.313, SSE
W145	UNIVERSITY SHELL	2960 YORBA LINDA BLV	CA CERS HAZ WASTE, CA SWEEPS UST, CA FID UST, CA...	Higher	1883, 0.357, ENE
W146	SHELL #2960	2960 E YORBA LINDA B	CA LUST, CA Cortese, CA CERS	Higher	1883, 0.357, ENE
W147	SHELL #2960	2960 YORBA LINDA BLV	CA LUST	Higher	1883, 0.357, ENE
W148	TESORO /TARGET STORE	2978 E YORBA LINDA B	CA LUST, CA CERS	Higher	1971, 0.373, ENE
W149	SELF SERVE	2978 YORBA LINDA BLV	CA SWEEPS UST, CA FID UST, CA HIST CORTESE	Higher	1971, 0.373, ENE
W150	TESORO GASOLINE DIGA	2978 YORBA LINDA BLV	RCRA-SQG, CA LUST, CA SWEEPS UST	Higher	1971, 0.373, ENE
W151	EXXON #7-3333	3000 E YORBA LINDA B	CA LUST, CA SWEEPS UST, CA HIST UST, CA FID UST,...	Higher	2119, 0.401, ENE
W152	EXXON SERVICE STATIO	3000 YORBA LINDA BLV	CA LUST, CA HIST UST	Higher	2119, 0.401, ENE
W153	TACO BELL STORE 9489	3000 YORBA LINDA BLV	CA LUST, CA CERS	Higher	2119, 0.401, ENE
X154	UNOCAL #5722	3001 YORBA LINDA	CA HIST CORTESE	Higher	2215, 0.420, ENE
X155	UNION SERVICE CENTER	3001 YORBA LINDA BLV	CA LUST, CA UST	Higher	2215, 0.420, ENE
X156	UNOCAL #5722	3001 E YORBA LINDA B	CA LUST, CA SWEEPS UST, CA FID UST, CA CERS	Higher	2215, 0.420, ENE

MAPPED SITES SUMMARY

Target Property Address:
800 N STATE COLLEGE BOULEVARD
FULLERTON, CA 92831

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MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
157	RENOVATE RECYCLING C	516 W CHAPMAN AVE	CA SWRCY, CA NPDES	Lower	2329, 0.441, SE
Y158	VEECO ELECTRO FAB, I	2488 E. FENDER AVENU	CA ENVIROSTOR	Lower	2849, 0.540, South
159	CYCLAMATION, INC.	2548 FENDER AVENUE,	MO RRC	Lower	2851, 0.540, South
Y160	BRIGHT ARMOR PLATING	2466-B EAST FENDER A	CA ENVIROSTOR	Lower	2889, 0.547, South
Z161	FULLERTON DAM		CA ENVIROSTOR	Higher	3040, 0.576, North
Z162	FULLERTON DAM-E FULL		FUDS	Higher	3041, 0.576, North
163	E D O CORP	300 S STATE COLLEGE	CA ENVIROSTOR, CA Orange Co. Industrial Site	Lower	3218, 0.609, SSW
164	MDC CENTER(FORMER)	601-629 S. PLACENTIA	CA ENVIROSTOR	Lower	3402, 0.644, South
165	ITW HI-CONE DIV OF I	500 S STATE COLLEGE	CA ENVIROSTOR, CA EMI, CA NPDES, CA WDS, CA CERS	Lower	3586, 0.679, South
AA166	ECONO LUBE N TUNE	101 S BRADFORD AVE	CA LUST, CA Notify 65	Higher	3881, 0.735, SE
AA167	BRITE ARMOR PLATING	1055 DRIEGA WAY, UNI	CA ENVIROSTOR	Higher	3932, 0.745, SE
AB168	MICRODOT DIV - KAYNA	190 W CROWTHER AVE	CA CPS-SLIC, CA EMI, CA HWP, CA CERS	Lower	4214, 0.798, SSE
AB169	MICRODOT DIV OF KAYN	190 W CROWTHER AVE	CA ENVIROSTOR, CA CERS	Lower	4214, 0.798, SSE
170	OMNI OPTICAL	360 S. ACACIA AVE	CA ENVIROSTOR, CA LUST, CA Orange Co. Industrial...	Lower	4486, 0.850, SW
171	ALCOA GLOBAL FASTENE	800 S STATE COLLEGE	CA ENVIROSTOR, CA HIST UST, CA Orange Co....	Lower	4492, 0.851, South
172	HI TECH SOLDER	700 MONROE WAY	CA ENVIROSTOR, CA CERS HAZ WASTE, FINDS, ECHO, CA..	Lower	4819, 0.913, SSE
173	GRAPHICS 2000	1600 E VALENCIA	CA ENVIROSTOR, CA LUST, CA CERS HAZ WASTE, CA...	Lower	4964, 0.940, SW
174	KRAFT FOODS	1500 E WALNUT AVE	CA ENVIROSTOR, CA CERS HAZ WASTE, CA HAZNET, CA...	Lower	5000, 0.947, SW
175	NORTH OC SITE DISCOV	GENERALLY BOUNDED N	CA ENVIROSTOR	Lower	5012, 0.949, SSW
176	ST. HART CONTAINER	1901 E. ROSSLYNN AVE	CA ENVIROSTOR, CA VCP	Lower	5082, 0.962, SSW
177	NATIONAL TECHNICAL S	1536 E. VALENCIA DR.	CA ENVIROSTOR	Lower	5150, 0.975, SW
178	UPS FREIGHT (FORMERL	650 SOUTH ACACIA AVE	CA ENVIROSTOR	Lower	5243, 0.993, SSW

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 9 of the attached EDR Radius Map report:

Site	Database(s)	EPA ID
800 NORTH STATE COLL 800 NORTH STATE COLL FULLERTON, CA 92634	ERNS NRC Report #: 278355	N/A
CALIFORNIA STATE UNI 800 N STATE COLLEGE FULLERTON, CA 92831	CA LUST Database: ORANGE CO. LUST, Date of Government Version: 05/01/2019 Database: LUST, Date of Government Version: 12/10/2018 Status: Completed - Case Closed Global Id: T0605901490 Facility Id: 87UT128 Facility Id: 89UT192	N/A
	CA HIST UST Facility Id: 00000015797	
	CA CHMIRS OES Incident Number: 2-4696 OES Incident Number: 16-3668	
	CA EMI Facility Id: 15507	
	CA NPDES CA CERS	
800 NORTH STATE COLL 800 NORTH STATE COLL FULLERTON, CA 92634	ERNS NRC Report #: 261195	N/A
800 NORTH STATE COLL 800 NORTH STATE COLL FULLERTON, CA 92634	ERNS NRC Report #: 300465	N/A
CSUF PHYSICAL PLANT 800 N STATE COLLEGE FULLERTON, CA 92634	FINDS Registry ID:: 110066198000	N/A
CALIFORNIA STATE UNI 800 N STATE COLLEGE FULLERTON, CA 92831	CA CIWQS	N/A
CSUF PHYSICAL PLANT 800 N STATE COLLEGE FULLERTON, CA	CA RGA LUST	N/A

EXECUTIVE SUMMARY

TITAN STUDENT UNION 800 NORTH STATE COLL FULLERTON, CA 92831	CA LUST Database: LUST, Date of Government Version: 12/10/2018 Status: Completed - Case Closed Global Id: T0605938267 Global Id: T0605900127 CA CHMIRS OES Incident Number: 1-6160 OES Incident Number: 2-5470 OES Incident Number: 9-2101 OES Incident Number: 50 CA NPDES Facility Status: Terminated CA CIWQS CA CERS	N/A
800 NORTH STATE COLL 800 NORTH STATE COLL FULLERTON, CA 92634	ERNS NRC Report #: 269325	N/A
800 NORTH STATE COLL 800 NORTH STATE COLL FULLERTON, CA 92634	ERNS NRC Report #: 29236	N/A
800 NORTH STATE COLL 800 NORTH STATE COLL FULLERTON, CA 92364	ERNS NRC Report #: 130692	N/A
CALIFORNIA STATE UNI 800 N. STATE COLLEGE FULLERTON, CA 92634	RCRA-LQG EPA ID:: CAT080031461 CA UST Database: UST, Date of Government Version: 12/10/2018 Facility Id: 7648	CAT080031461
PARKING STRUCTURE NO 800 N STATE COLLEGE FULLERTON, CA 92831	CA NPDES CA CIWQS	N/A
PARKING STRUCTURE NO 800 NORTH STATE COLL FULLERTON, CA 92834	CA CIWQS	N/A
800 N STATE COLLEGE 800 N STATE COLLEGE FULLERTON, CA	CA AST Database: AST, Date of Government Version: 07/06/2016	N/A
800 NORTH STATE COLL 800 NORTH STATE COLL FULLERTON, CA	ERNS	N/A

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	NRC Report #: 483989	
800 NORTH STATE COLL 800 NORTH STATE COLL FULLERTON, CA	ERNS NRC Report #: 406611	N/A
800 NORTH STATE COLL 800 NORTH STATE COLL FULLERTON, CA	CA CHMIRS OES Incident Number: 18-6081	N/A
CALIFORNIA STATE UNI 800 NORTH STATE COLL FULLERTON, CA 92834	NY MANIFEST EPA ID: CAT080031461	N/A
CALIFORNIA STATE UNI 800 NORTH STATE COLL FULLERTON, CA CA	CA CIWQS CA CERS	N/A
CSUF CHILDRENS CENTE 800 N STATE COLLEGE FULLERTON, CA 92834	CA CIWQS	N/A
800 NORTH STATE COLL 800 NORTH STATE COLL FULLERTON, CA	ERNS NRC Report #: 569688	N/A
CALIFORNIA STATE UNI 800 N STATE COLLEGE FULLERTON, CA 92831	CA CERS HAZ WASTE CA CERS TANKS CA HAZNET GEPAID: CAT080031461 CA CERS	N/A
800 NORTH STATE COLL 800 NORTH STATE COLL FULLERTON, CA 92634	CA CHMIRS OES Incident Number: 219	N/A
CALIFORNIA STATE UNI 800 N STATE COLLEGE FULLERTON, CA 92634	CA SWEEPS UST Status: A Tank Status: A Comp Number: 7648	N/A
CALIFORNIA STATE UNI 800 N. STATE COLLEGE FULLERTON, CA 92834	MLTS	N/A

EXECUTIVE SUMMARY

License Number:: AS-NMMSS-HQ-7

CSUF STUDENT RECREAT 800 N STATE COLLEBE FULLERTON, CA 92834	CA CIWQS	N/A
AUDITORIUM & FINE AR 800 N STATE COLLEGE FULLERTON, CA 92831	CA CIWQS	N/A
CSU FULLERTON PARKIN 800 N STATE COLLEGE FULLERTON, CA 92834	CA CIWQS	N/A
CALIFORNIA STATE UNI 800 N STATE COLLEGE FULLERTON, CA 92831	FINDS Registry ID:: 110025604246 Registry ID:: 110057119577 ECHO Registry ID: 110025604246	N/A
800 NORTH STATE COLL 800 NORTH STATE COLL FULLERTON, CA 92834	CA CHMIRS OES Incident Number: 7-3987	N/A
800 NORTH STATE COLL 800 NORTH STATE COLL FULLERTON, CA 92834	ERNS NRC Report #: 625481	N/A
800 NORTH STATE COLL 800 NORTH STATE COLL FULLERTON, CA 92834	ERNS NRC Report #: 624742	N/A
800 NORTH STATE COLL 800 NORTH STATE COLL FULLERTON, CA 92834	ERNS NRC Report #: 621553	N/A
800 NORTH STATE COLL 800 NORTH STATE COLL FULLERTON, CA	ERNS NRC Report #: 584351	N/A

EXECUTIVE SUMMARY

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL ..... National Priority List
Proposed NPL ..... Proposed National Priority List Sites
NPL LIENS ..... Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL ..... National Priority List Deletions

Federal CERCLIS list

FEDERAL FACILITY ..... Federal Facility Site Information listing
SEMS ..... Superfund Enterprise Management System

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE ..... Superfund Enterprise Management System Archive

Federal RCRA CORRACTS facilities list

CORRACTS ..... Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF ..... RCRA - Treatment, Storage and Disposal

Federal RCRA generators list

RCRA-CESQG ..... RCRA - Conditionally Exempt Small Quantity Generator

Federal institutional controls / engineering controls registries

LUCIS ..... Land Use Control Information System
US ENG CONTROLS ..... Engineering Controls Sites List
US INST CONTROL ..... Sites with Institutional Controls

State- and tribal - equivalent NPL

CA RESPONSE ..... State Response Sites

State and tribal landfill and/or solid waste disposal site lists

CA SWF/LF ..... Solid Waste Information System

State and tribal leaking storage tank lists

INDIAN LUST ..... Leaking Underground Storage Tanks on Indian Land

State and tribal registered storage tank lists

FEMA UST..... Underground Storage Tank Listing
INDIAN UST..... Underground Storage Tanks on Indian Land

State and tribal voluntary cleanup sites

INDIAN VCP..... Voluntary Cleanup Priority Listing

State and tribal Brownfields sites

CA BROWNFIELDS..... Considered Brownfieds Sites Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS..... A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

CA WMUDS/SWAT..... Waste Management Unit Database
CA HAULERS..... Registered Waste Tire Haulers Listing
INDIAN ODI..... Report on the Status of Open Dumps on Indian Lands
ODI..... Open Dump Inventory
DEBRIS REGION 9..... Torres Martinez Reservation Illegal Dump Site Locations
IHS OPEN DUMPS..... Open Dumps on Indian Land

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL..... Delisted National Clandestine Laboratory Register
CA HIST Cal-Sites..... Historical Calsites Database
CA CDL..... Clandestine Drug Labs
CA Toxic Pits..... Toxic Pits Cleanup Act Sites
US CDL..... National Clandestine Laboratory Register
CA PFAS..... PFAS Contamination Site Location Listing

Local Land Records

CA LIENS..... Environmental Liens Listing
LIENS 2..... CERCLA Lien Information
CA DEED..... Deed Restriction Listing

Records of Emergency Release Reports

HMIRS..... Hazardous Materials Information Reporting System
CA LDS..... Land Disposal Sites Listing
CA MCS..... Military Cleanup Sites Listing
CA SPILLS 90..... SPILLS 90 data from FirstSearch

Other Ascertainable Records

DOD..... Department of Defense Sites

SCRD DRYCLEANERS	State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR	Financial Assurance Information
EPA WATCH LIST	EPA WATCH LIST
2020 COR ACTION	2020 Corrective Action Program List
TSCA	Toxic Substances Control Act
TRIS	Toxic Chemical Release Inventory System
SSTS	Section 7 Tracking Systems
ROD	Records Of Decision
RMP	Risk Management Plans
RAATS	RCRA Administrative Action Tracking System
PRP	Potentially Responsible Parties
PADS	PCB Activity Database System
ICIS	Integrated Compliance Information System
FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
COAL ASH DOE	Steam-Electric Plant Operation Data
COAL ASH EPA	Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER	PCB Transformer Registration Database
RADINFO	Radiation Information Database
HIST FTTS	FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS	Incident and Accident Data
CONSENT	Superfund (CERCLA) Consent Decrees
INDIAN RESERV	Indian Reservations
FUSRAP	Formerly Utilized Sites Remedial Action Program
UMTRA	Uranium Mill Tailings Sites
LEAD SMELTERS	Lead Smelter Sites
US AIRS	Aerometric Information Retrieval System Facility Subsystem
US MINES	Mines Master Index File
ABANDONED MINES	Abandoned Mines
DOCKET HWC	Hazardous Waste Compliance Docket Listing
UXO	Unexploded Ordnance Sites
FUELS PROGRAM	EPA Fuels Program Registered Listing
CA BOND EXP. PLAN	Bond Expenditure Plan
CA CUPA Listings	CUPA Resources List
CA ENF	Enforcement Action Listing
CA Financial Assurance	Financial Assurance Information Listing
CA ICE	ICE
CA HWT	Registered Hazardous Waste Transporter Database
CA MINES	Mines Site Location Listing
CA MWMP	Medical Waste Management Program Listing
CA PROC	Certified Processors Database
CA UIC	UIC Listing
CA UIC GEO	UIC GEO (GEOTRACKER)
CA WASTEWATER PITS	Oil Wastewater Pits Listing
CA MILITARY PRIV SITES	MILITARY PRIV SITES (GEOTRACKER)
CA PROJECT	PROJECT (GEOTRACKER)
CA WDR	Waste Discharge Requirements Listing
CA WIP	Well Investigation Program Case List
CA NON-CASE INFO	NON-CASE INFO (GEOTRACKER)
CA OTHER OIL GAS	OTHER OIL & GAS (GEOTRACKER)
CA PROD WATER PONDS	PROD WATER PONDS (GEOTRACKER)
CA SAMPLING POINT	SAMPLING POINT (GEOTRACKER)
CA WELL STIM PROJ	Well Stimulation Project (GEOTRACKER)

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP	EDR Proprietary Manufactured Gas Plants

EXECUTIVE SUMMARY

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

CA RGA LF..... Recovered Government Archive Solid Waste Facilities List

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

Federal RCRA generators list

RCRA-LQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

A review of the RCRA-LQG list, as provided by EDR, and dated 03/25/2019 has revealed that there are 3 RCRA-LQG sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CHEVRON 98976 EPA ID:: CAR000124396	***2961 YORBA LINDA BOU***	***NE 1/8 - 1/4 (0.234 mi.)***	***R114***	***476***
T0293 EPA ID:: CAL000229726	2920 YORBA LINDA BLV	NE 1/8 - 1/4 (0.235 mi.)	S118	512

Lower Elevation	Address	Direction / Distance	Map ID	Page
Not reported EPA ID:: CAL000055745	506 N STATE COLLEGE	SSW 1/8 - 1/4 (0.225 mi.)	P106	457

EXECUTIVE SUMMARY

RCRA-SQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

A review of the RCRA-SQG list, as provided by EDR, and dated 03/25/2019 has revealed that there are 7 RCRA-SQG sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
EXXONMOBIL OIL CORP EPA ID:: CAR000239475	***2601 E YORBA LINDA B***	***N 0 - 1/8 (0.032 mi.)***	***H65***	***277***
TARGET STORE T0293 EPA ID:: CAR000219915	***2920 YORBA LINDA BLV***	***NE 1/8 - 1/4 (0.235 mi.)***	***S119***	***514***

Lower Elevation	Address	Direction / Distance	Map ID	Page
ONETECH CIRCUIT INC EPA ID:: CAD982485963	***753 STATE COLLEGE UN***	***SSW 0 - 1/8 (0.046 mi.)***	***68***	***284***
FIVEPLANTS ASSN COLL EPA ID:: CAT000623934	***2501 COLLEGE PL***	***S 0 - 1/8 (0.112 mi.)***	***K80***	***306***
CHEVRON STATION 9609 EPA ID:: CA0000137844	2950 E NUTWOOD	SE 1/8 - 1/4 (0.158 mi.)	M88	338
SHELL SERVICE STATIO EPA ID:: CAR000089367	***351 N PLACENTIA / CH***	***SSE 1/8 - 1/4 (0.237 mi.)***	***O124***	***523***
SEVANS SHELL SVC EPA ID:: CAD983601782	351 N PLACENTIA AVE	SSE 1/8 - 1/4 (0.237 mi.)	O129	558

State- and tribal - equivalent CERCLIS

CA ENVIROSTOR: The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

A review of the CA ENVIROSTOR list, as provided by EDR, and dated 01/28/2019 has revealed that there are 20 CA ENVIROSTOR sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
FULLERTON UNIVERSITY	***2940/2948 YORBA LIND***	***NE 1/4 - 1/2 (0.264 mi.)***	***R142***	***591***
FULLERTON DAM		N 1/2 - 1 (0.576 mi.)	Z161	666
BRITE ARMOR PLATING	1055 DRIEGA WAY, UNI	SE 1/2 - 1 (0.745 mi.)	AA167	681

Lower Elevation	Address	Direction / Distance	Map ID	Page
TROY HIGH SCHOOL	***2200 EAST DOROTHY LA***	***WSW 0 - 1/8 (0.002 mi.)***	***G53***	***231***

Lower Elevation	Address	Direction / Distance	Map ID	Page
LA VISTA HIGH SCHOOL	***909 NORTH STATE COLL***	***SW 0 - 1/8 (0.045 mi.)***	***67***	***281***
VEECO ELECTRO FAB, I	2488 E. FENDER AVENU	S 1/2 - 1 (0.540 mi.)	Y158	664
BRIGHT ARMOR PLATING	2466-B EAST FENDER A	S 1/2 - 1 (0.547 mi.)	Y160	665
E D O CORP	***300 S STATE COLLEGE***	***SSW 1/2 - 1 (0.609 mi.)***	***163***	***668***
MDC CENTER(FORMER)	601-629 S. PLACENTIA	S 1/2 - 1 (0.644 mi.)	164	669
ITW HI-CONE DIV OF I	***500 S STATE COLLEGE***	***S 1/2 - 1 (0.679 mi.)***	***165***	***670***
MICRODOT DIV OF KAYN	***190 W CROWTHER AVE***	***SSE 1/2 - 1 (0.798 mi.)***	***AB169***	***684***
OMNI OPTICAL	***360 S. ACACIA AVE***	***SW 1/2 - 1 (0.850 mi.)***	***170***	***685***
ALCOA GLOBAL FASTENE	***800 S STATE COLLEGE***	***S 1/2 - 1 (0.851 mi.)***	***171***	***687***
HI TECH SOLDER	***700 MONROE WAY***	***SSE 1/2 - 1 (0.913 mi.)***	***172***	***695***
GRAPHICS 2000	***1600 E VALENCIA***	***SW 1/2 - 1 (0.940 mi.)***	***173***	***730***
KRAFT FOODS	***1500 E WALNUT AVE***	***SW 1/2 - 1 (0.947 mi.)***	***174***	***755***
NORTH OC SITE DISCOV	GENERALLY BOUNDED N	SSW 1/2 - 1 (0.949 mi.)	175	778
ST. HART CONTAINER	***1901 E. ROSSLYNN AVE***	***SSW 1/2 - 1 (0.962 mi.)***	***176***	***779***
NATIONAL TECHNICAL S	1536 E. VALENCIA DR.	SW 1/2 - 1 (0.975 mi.)	177	782
UPS FREIGHT (FORMERL	650 SOUTH ACACIA AVE	SSW 1/2 - 1 (0.993 mi.)	178	783

State and tribal leaking storage tank lists

CA LUST: Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

A review of the CA LUST list, as provided by EDR, has revealed that there are 33 CA LUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CALIF STATE UNIVERSI	***800 STATE COLLEGE***	***0 - 1/8 (0.000 mi.)***	***38***	***216***
Database: LUST REG 8, Date of Government Version: 02/14/2005 Facility Status: Case Closed Global ID: T0605900127 Global ID: T0605901490 Global ID: T0605938267				
COLLEGE PARK SERVICE	***2601 E YORBA LINDA B***	***N 0 - 1/8 (0.032 mi.)***	***H64***	***250***
Database: LUST, Date of Government Version: 12/10/2018 Status: Completed - Case Closed Global Id: T0605902313				
RONALD DAVIS MOBIL (	***2601 YORBA LINDA BLV***	***N 0 - 1/8 (0.032 mi.)***	***H66***	***279***
Database: LUST REG 8, Date of Government Version: 02/14/2005 Facility Status: Pollution Characterization Global ID: T0605902313				
FULLERTON FIRE STATI	***2555 YORBA LINDA BLV***	***NNW 0 - 1/8 (0.049 mi.)***	***I69***	***286***
Database: LUST REG 8, Date of Government Version: 02/14/2005 Facility Status: Case Closed Global ID: T0605902342				
FULLERTON FIRE STATI	***2555 E YORBA LINDA B***	***NNW 0 - 1/8 (0.049 mi.)***	***I71***	***294***
Database: LUST, Date of Government Version: 12/10/2018 Status: Completed - Case Closed Global Id: T0605902342				
CHEVRON #9-8976	***2961 YORBA LINDA BLV***	***NE 1/8 - 1/4 (0.234 mi.)***	***R110***	***469***
Database: LUST REG 8, Date of Government Version: 02/14/2005				

Facility Status: Case Closed
Global ID: T0605901276

98976 ***2961 E YORBA LINDA*** ***NE 1/8 - 1/4 (0.234 mi.)*** ***R113*** ***474***
Database: LUST, Date of Government Version: 12/10/2018
Status: Completed - Case Closed
Global Id: T0605901276

CHEVRON 98976 ***2961 YORBA LINDA BOU*** ***NE 1/8 - 1/4 (0.234 mi.)*** ***R114*** ***476***
Database: ORANGE CO. LUST, Date of Government Version: 05/01/2019
Facility Id: 90UT226

U-HAUL ***862 PLACENTIA*** ***ESE 1/8 - 1/4 (0.238 mi.)*** ***130*** ***559***
Database: LUST REG 8, Date of Government Version: 02/14/2005
Database: LUST, Date of Government Version: 12/10/2018
Status: Completed - Case Closed
Facility Status: Case Closed
Global Id: T0605903352
Global ID: T0605903352

SHELL #2960 ***2960 E YORBA LINDA B*** ***ENE 1/4 - 1/2 (0.357 mi.)*** ***W146*** ***629***
Database: LUST, Date of Government Version: 12/10/2018
Status: Open - Site Assessment
Global Id: T0605901932

SHELL #2960 2960 YORBA LINDA BLV ENE 1/4 - 1/2 (0.357 mi.) W147 638
Database: LUST REG 8, Date of Government Version: 02/14/2005
Facility Status: Pollution Characterization
Global ID: T0605901932

TESORO /TARGET STORE ***2978 E YORBA LINDA B*** ***ENE 1/4 - 1/2 (0.373 mi.)*** ***W148*** ***639***
Database: LUST, Date of Government Version: 12/10/2018
Status: Completed - Case Closed
Global Id: T0605901585

TESORO GASOLINE DIGA ***2978 YORBA LINDA BLV*** ***ENE 1/4 - 1/2 (0.373 mi.)*** ***W150*** ***646***
Database: LUST REG 8, Date of Government Version: 02/14/2005
Facility Status: Remediation Plan
Global ID: T0605901585

EXXON #7-3333 ***3000 E YORBA LINDA B*** ***ENE 1/4 - 1/2 (0.401 mi.)*** ***W151*** ***648***
Database: ORANGE CO. LUST, Date of Government Version: 05/01/2019
Database: LUST, Date of Government Version: 12/10/2018
Status: Completed - Case Closed
Global Id: T0605900453
Facility Id: 88UT033

EXXON SERVICE STATIO ***3000 YORBA LINDA BLV*** ***ENE 1/4 - 1/2 (0.401 mi.)*** ***W152*** ***653***
Database: LUST REG 8, Date of Government Version: 02/14/2005
Facility Status: Post remedial action monitoring
Global ID: T0605945078

TACO BELL STORE 9489 ***3000 YORBA LINDA BLV*** ***ENE 1/4 - 1/2 (0.401 mi.)*** ***W153*** ***655***
Database: LUST REG 8, Date of Government Version: 02/14/2005
Facility Status: Case Closed
Global ID: T0605900453

UNION SERVICE CENTER ***3001 YORBA LINDA BLV*** ***ENE 1/4 - 1/2 (0.420 mi.)*** ***X155*** ***658***
Database: LUST REG 8, Date of Government Version: 02/14/2005
Facility Status: Case Closed
Global ID: T0605901275

UNOCAL #5722 ***3001 E YORBA LINDA B*** ***ENE 1/4 - 1/2 (0.420 mi.)*** ***X156*** ***659***
Database: ORANGE CO. LUST, Date of Government Version: 05/01/2019
Database: LUST, Date of Government Version: 12/10/2018

Status: Completed - Case Closed
Global Id: T0605901275
Facility Id: 90UT221

Lower Elevation	Address	Direction / Distance	Map ID	Page
EXXON SERVICE STATIO	***901 N PLACENTIA AVE***	***SE 1/8 - 1/4 (0.167 mi.)***	***M92***	***342***
Database: LUST, Date of Government Version: 12/10/2018 Status: Open - Remediation Global Id: T0605901521				
EXXON #7-3650	***901 N PLACENTIA AVE***	***SE 1/8 - 1/4 (0.167 mi.)***	***M93***	***351***
Database: LUST REG 8, Date of Government Version: 02/14/2005 Facility Status: Remedial action (cleanup) Underway Global ID: T0605901521				
ARCO #0097	***401 N PLACENTIA AVEN***	***SSE 1/8 - 1/4 (0.216 mi.)***	***O98***	***383***
Database: LUST, Date of Government Version: 12/10/2018 Status: Completed - Case Closed Global Id: T0605900036 Global Id: T0605902316				
ARCO FAC #97	***401 N PLACENTIA AVE***	***SSE 1/8 - 1/4 (0.216 mi.)***	***O99***	***395***
Database: ORANGE CO. LUST, Date of Government Version: 05/01/2019 Facility Id: 86UT220				
ARCO #0097	***401 PLACENTIA AVE***	***SSE 1/8 - 1/4 (0.216 mi.)***	***O100***	***419***
Database: LUST REG 8, Date of Government Version: 02/14/2005 Facility Status: Case Closed Facility Status: Post remedial action monitoring Global ID: T0605900036 Global ID: T0605902316				
MOBIL #18-FHE	***506 N STATE COLLEGE***	***SSW 1/8 - 1/4 (0.225 mi.)***	***P105***	***426***
Database: LUST, Date of Government Version: 12/10/2018 Status: Completed - Case Closed Global Id: T0605900668				
M & J EQUIPMENT	***450 PLACENTIA***	***SE 1/8 - 1/4 (0.230 mi.)***	***Q107***	***458***
Database: LUST REG 8, Date of Government Version: 02/14/2005 Database: ORANGE CO. LUST, Date of Government Version: 05/01/2019 Database: LUST, Date of Government Version: 12/10/2018 Status: Completed - Case Closed Facility Status: Case Closed Global Id: T0605900174 Global ID: T0605900174 Facility Id: 86UT120				
SHELL	***351 PLACENTIA AVE***	***SSE 1/8 - 1/4 (0.237 mi.)***	***O125***	***525***
Database: LUST REG 8, Date of Government Version: 02/14/2005 Database: ORANGE CO. LUST, Date of Government Version: 05/01/2019 Facility Status: Post remedial action monitoring Global ID: T0605901059 Facility Id: 90UT009				
SEVAN S YAKINIAN	***351 N PLACENTIA***	***SSE 1/8 - 1/4 (0.237 mi.)***	***O127***	***527***
Database: LUST, Date of Government Version: 12/10/2018 Status: Completed - Case Closed Global Id: T0605901059				
MOBIL #18-FHE	***506***	***SSW 1/8 - 1/4 (0.241 mi.)***	***P131***	***562***
Database: LUST REG 8, Date of Government Version: 02/14/2005				

Facility Status: Pollution Characterization
Global ID: T0605900668

SHELL SERVICE STATIO ***2450*** ***SSW 1/4 - 1/2 (0.256 mi.)*** ***T139*** ***586***
Database: LUST REG 8, Date of Government Version: 02/14/2005
Facility Status: Remedial action (cleanup) Underway
Global ID: T0605900289

SHELL SERVICE STATIO ***2340 CHAPMAN*** ***SSW 1/4 - 1/2 (0.257 mi.)*** ***U140*** ***587***
Database: LUST REG 8, Date of Government Version: 02/14/2005
Facility Status: Case Closed
Global ID: T0605900731

SHELL #2340 ***2340 E CHAPMAN AVE*** ***SSW 1/4 - 1/2 (0.257 mi.)*** ***U141*** ***588***
Database: ORANGE CO. LUST, Date of Government Version: 05/01/2019
Database: LUST, Date of Government Version: 12/10/2018
Status: Completed - Case Closed
Global Id: T0605900731
Facility Id: 84UT024

STATION #4629 ***820 W CHAPMAN AVE*** ***SSE 1/4 - 1/2 (0.265 mi.)*** ***V143*** ***592***
Database: ORANGE CO. LUST, Date of Government Version: 05/01/2019
Facility Id: 93UT040

UNOCAL #4629 ***820*** ***SSE 1/4 - 1/2 (0.313 mi.)*** ***V144*** ***593***
Database: LUST REG 8, Date of Government Version: 02/14/2005
Database: LUST, Date of Government Version: 12/10/2018
Status: Completed - Case Closed
Facility Status: Pollution Characterization
Global Id: T0605901644
Global ID: T0605901644

CA CPS-SLIC: Cleanup Program Sites (CPS; also known as Site Cleanups [SC] and formerly known as Spills, Leaks, Investigations, and Cleanups [SLIC] sites) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

A review of the CA CPS-SLIC list, as provided by EDR, has revealed that there is 1 CA CPS-SLIC site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
WINONICS	***1257 STATE COLLEGE B***	***0 - 1/8 (0.000 mi.)***	***41***	***224***

Database: CPS-SLIC, Date of Government Version: 12/10/2018
Global Id: SLT8R2714078
Facility Status: Completed - Case Closed

State and tribal registered storage tank lists

CA UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the State Water Resources Control Board's Hazardous Substance Storage Container Database.

A review of the CA UST list, as provided by EDR, has revealed that there are 14 CA UST sites within

approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
COLLEGE PARK SERVICE Database: UST, Date of Government Version: 12/10/2018 Facility Id: FA0035817	2601 E YORBA LINDA B	N 0 - 1/8 (0.032 mi.)	H57	246
CIRCLE K STORES INC. Database: UST, Date of Government Version: 12/10/2018	2601 EAST YORBA LIND	N 0 - 1/8 (0.032 mi.)	H59	247
RONALD DAVIS MOBIL (Database: UST, Date of Government Version: 12/10/2018 Facility Id: 4688	2601 YORBA LINDA BLV	N 0 - 1/8 (0.032 mi.)	H60	247
FULLERTON FIRE STATI Database: UST, Date of Government Version: 12/10/2018 Facility Id: 7428	***2555 YORBA LINDA BLV***	***NNW 0 - 1/8 (0.049 mi.)***	***I69***	***286***
CHEVRON STATION #989 Database: UST, Date of Government Version: 12/10/2018 Facility Id: FA0050794 Facility Id: 2095	2961 YORBA LINDA BLV	NE 1/8 - 1/4 (0.234 mi.)	R115	500

Lower Elevation	Address	Direction / Distance	Map ID	Page
COLLEGE PARK PLANT Database: UST, Date of Government Version: 12/10/2018 Facility Id: 4652	2501 COLLEGE PL	S 0 - 1/8 (0.112 mi.)	K79	306
H&S #26 Database: UST, Date of Government Version: 12/10/2018 Facility Id: 2096	2950 NUTWOOD AVE	SE 1/8 - 1/4 (0.158 mi.)	M90	341
EXXON #7-3650 Database: UST, Date of Government Version: 12/10/2018 Facility Id: 135056 Facility Id: 2100	901 N PLACENTIA AVE	SE 1/8 - 1/4 (0.167 mi.)	M91	341
ARCO 42004 Database: UST, Date of Government Version: 12/10/2018 Facility Id: 4671	401 N PLACENTIA AVE	SSE 1/8 - 1/4 (0.216 mi.)	O97	382
MOBIL BLUE, INC. Database: UST, Date of Government Version: 12/10/2018 Facility Id: 4677	506 N STATE COLLEGE	SSW 1/8 - 1/4 (0.225 mi.)	P104	426
FULLERTON 76 Database: UST, Date of Government Version: 12/10/2018 Facility Id: FA0024668	351 N PLACENTIA AVE	SSE 1/8 - 1/4 (0.237 mi.)	O120	520
SHELL OIL #351 Database: UST CLOSURE, Date of Government Version: 03/11/2019	351 PLACENTIA AVE.	SSE 1/8 - 1/4 (0.237 mi.)	O122	523
SHELL (135315) Database: UST, Date of Government Version: 12/10/2018 Facility Id: 3969	351 N PLACENTIA AVE	SSE 1/8 - 1/4 (0.237 mi.)	O123	523
SHELL OIL Database: UST, Date of Government Version: 12/10/2018 Facility Id: 11504	2450 E CHAPMAN AVE	SSW 1/8 - 1/4 (0.246 mi.)	N136	582

CA AST: A listing of aboveground storage tank petroleum storage tank locations.

A review of the CA AST list, as provided by EDR, has revealed that there is 1 CA AST site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
FULLERTON FIRE STATI	***2555 E YORBA LINDA B***	***NNW 0 - 1/8 (0.049 mi.)***	***I71***	***294***
Database: AST, Date of Government Version: 07/06/2016				

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Landfill / Solid Waste Disposal Sites

CA SWRCY: A listing of recycling facilities in California.

A review of the CA SWRCY list, as provided by EDR, and dated 03/11/2019 has revealed that there are 2 CA SWRCY sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
FULLERTON RECYCLING Cert Id: RC13324	2920 YORBA LINDA BLV	NE 1/8 - 1/4 (0.235 mi.)	S117	511

Lower Elevation	Address	Direction / Distance	Map ID	Page
RENOVATE RECYCLING C Cert Id: RC147612.001	***516 W CHAPMAN AVE***	***SE 1/4 - 1/2 (0.441 mi.)***	***157***	***663***

Local Lists of Hazardous waste / Contaminated Sites

CA SCH: This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category. depending on the level of threat to public health and safety or the. environment they pose.

A review of the CA SCH list, as provided by EDR, and dated 01/28/2019 has revealed that there are 2 CA SCH sites within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
TROY HIGH SCHOOL Facility Id: 30820011 Status: No Further Action	***2200 EAST DOROTHY LA***	***WSW 0 - 1/8 (0.002 mi.)***	***G53***	***231***
LA VISTA HIGH SCHOOL Facility Id: 30000047 Status: No Further Action	***909 NORTH STATE COLL***	***SW 0 - 1/8 (0.045 mi.)***	***67***	***281***

EXECUTIVE SUMMARY

CA CERS HAZ WASTE: List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Hazardous Chemical Management, Hazardous Waste Onsite Treatment, Household Hazardous Waste Collection, Hazardous Waste Generator, and RCRA LQ HW Generator programs.

A review of the CA CERS HAZ WASTE list, as provided by EDR, and dated 04/09/2019 has revealed that there are 15 CA CERS HAZ WASTE sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
COLLEGE PARK SERVICE	***2601 E YORBA LINDA B***	***N 0 - 1/8 (0.032 mi.)***	***H64***	***250***
CHEVRON 98976	***2961 YORBA LINDA BOU***	***NE 1/8 - 1/4 (0.234 mi.)***	***R114***	***476***
TARGET STORE NO 0293	***2920 YORBA LINDA BLV***	***NE 1/8 - 1/4 (0.235 mi.)***	***S116***	***500***

Lower Elevation	Address	Direction / Distance	Map ID	Page
TROY HIGH SCHOOL	***2200 DOROTHY LN***	***WSW 0 - 1/8 (0.002 mi.)***	***G54***	***234***
OGGI'S PIZZA AND BRE	***2595 E CHAPMAN AVE***	***S 0 - 1/8 (0.099 mi.)***	***J75***	***297***
H&S #26	***2950 NUTWOOD AVE***	***SE 1/8 - 1/4 (0.158 mi.)***	***M85***	***312***
EXXON #7-3650	***901 N PLACENTIA AVE***	***SE 1/8 - 1/4 (0.167 mi.)***	***M93***	***351***
HI-LO AUTO SUPPLY	***2429 E CHAPMAN AVE***	***S 1/8 - 1/4 (0.197 mi.)***	***N95***	***375***
COSMOPROF SUPPLY	***2435 E CHAPMAN AVE***	***S 1/8 - 1/4 (0.197 mi.)***	***N96***	***377***
ARCO FAC #97	***401 N PLACENTIA AVE***	***SSE 1/8 - 1/4 (0.216 mi.)***	***O99***	***395***
MOBIL #18-FHE	***506 N STATE COLLEGE***	***SSW 1/8 - 1/4 (0.225 mi.)***	***P105***	***426***
SMART & FINAL #425	***2475 E CHAPMAN AVE***	***SSW 1/8 - 1/4 (0.234 mi.)***	***N109***	***461***
FULLERTON 76	***351 N PLACENTIA AVE***	***SSE 1/8 - 1/4 (0.237 mi.)***	***O128***	***535***
DOLLAR TREE #04437	***2465 E CHAPMAN AVE***	***SSW 1/8 - 1/4 (0.244 mi.)***	***N132***	***563***
99 CENTS ONLY STORES	***2450 E CHAPMAN AVE***	***SSW 1/8 - 1/4 (0.246 mi.)***	***N135***	***573***

Local Lists of Registered Storage Tanks

CA SWEEPS UST: Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

A review of the CA SWEEPS UST list, as provided by EDR, and dated 06/01/1994 has revealed that there are 9 CA SWEEPS UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
RONALD DAVIS MOBIL (Status: A Tank Status: A Comp Number: 4688	2601 YORBA LINDA BLV	N 0 - 1/8 (0.032 mi.)	H63	249
FULLERTON FIRE STATI Status: A Tank Status: A Comp Number: 7428	***2555 YORBA LINDA BLV***	***NNW 0 - 1/8 (0.049 mi.)***	***I69***	***286***
CHEVRON STATION #989 Status: A Tank Status: A Comp Number: 2095	***2961 E YORBA LINDA B***	***NE 1/8 - 1/4 (0.234 mi.)***	***R111***	***471***

Lower Elevation	Address	Direction / Distance	Map ID	Page
COLLEGE PARK PLANT	***2501 E COLLEGE PL***	***S 0 - 1/8 (0.112 mi.)***	***K78***	***305***

Status: A Tank Status: A Comp Number: 4652				
CHEVRON STATION #9-6 Status: A Tank Status: A Comp Number: 2096	2950 E NUTWOOD AVE	SE 1/8 - 1/4 (0.158 mi.)	M87	337
EXXON #7-3650 Comp Number: 2100	***901 N PLACENTIA AVE***	***SE 1/8 - 1/4 (0.167 mi.)***	***M93***	***351***
ARCO FAC #97 Status: A Tank Status: A Comp Number: 4671	***401 N PLACENTIA AVE***	***SSE 1/8 - 1/4 (0.216 mi.)***	***O99***	***395***
MOBIL SS #18-FHE Status: A Tank Status: A Comp Number: 4677	***506 N STATE COLLEGE***	***SSW 1/8 - 1/4 (0.225 mi.)***	***P103***	***423***
SHELL SERVICE STATIO Status: A Tank Status: A Comp Number: 3969	***351 N PLACENTIA AVE***	***SSE 1/8 - 1/4 (0.237 mi.)***	***O121***	***520***

CA HIST UST: Historical UST Registered Database.

A review of the CA HIST UST list, as provided by EDR, and dated 10/15/1990 has revealed that there are 14 CA HIST UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
RONALD DAVIS Facility Id: 00000039417	2601 YORBA LINDA BLV	N 0 - 1/8 (0.032 mi.)	H61	247
FIRE DEPT STA 5 Facility Id: 00000027535	2555 YORBA LINDA BLV	NNW 0 - 1/8 (0.049 mi.)	I72	296
98976 Facility Id: 00000063165	2961 YORBA LINDA BLV	NE 1/8 - 1/4 (0.234 mi.)	R112	473
98976	***2961 E YORBA LINDA***	***NE 1/8 - 1/4 (0.234 mi.)***	***R113***	***474***

Lower Elevation	Address	Direction / Distance	Map ID	Page
TRIGEN-LA ENERGY COR Facility Id: 00000020370	***2501 COLLEGE PLACE***	***S 0 - 1/8 (0.109 mi.)***	***K76***	***303***
COLLEGE PARK PLANT	***2501 E COLLEGE PL***	***S 0 - 1/8 (0.112 mi.)***	***K78***	***305***
PLACENTIA PLANT Facility Id: 00000021901	500 PLACENTIA AVENUE	SE 1/8 - 1/4 (0.134 mi.)	L82	310
96091 Facility Id: 00000062845	2950 NUTWOOD AVE	SE 1/8 - 1/4 (0.158 mi.)	M84	311
CHEVRON STATION #609	***2950 E NUTWOOD***	***SE 1/8 - 1/4 (0.158 mi.)***	***M86***	***336***
EXXON SERVICE STATIO Facility Id: 00000023940	***901 N PLACENTIA AVE***	***SE 1/8 - 1/4 (0.167 mi.)***	***M92***	***342***
PETROLEUM MRKTG INC	401 N PLACENTIA	SSE 1/8 - 1/4 (0.216 mi.)	O101	421

Facility Id: 00000026487				
MOBIL SS #18-FHE	***506 N STATE COLLEGE***	***SSW 1/8 - 1/4 (0.225 mi.)***	***P103***	***423***
Facility Id: 00000039419				
SEVAN S YAKINIAN	351 N PLAENTIA	SSE 1/8 - 1/4 (0.237 mi.)	O126	527
SEVAN S YAKINIAN	***351 N PLACENTIA***	***SSE 1/8 - 1/4 (0.237 mi.)***	***O127***	***527***
Facility Id: 00000056961				
Facility Id: 00000009952				

CA CERS TANKS: List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Aboveground Petroleum Storage and Underground Storage Tank regulatory programs.

A review of the CA CERS TANKS list, as provided by EDR, and dated 04/09/2019 has revealed that there are 8 CA CERS TANKS sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
COLLEGE PARK SERVICE	***2601 E YORBA LINDA B***	***N 0 - 1/8 (0.032 mi.)***	***H64***	***250***
FULLERTON FIRE STATI	***2555 YORBA LINDA BLV***	***NNW 0 - 1/8 (0.049 mi.)***	***I70***	***288***
CHEVRON 98976	***2961 YORBA LINDA BOU***	***NE 1/8 - 1/4 (0.234 mi.)***	***R114***	***476***

Lower Elevation	Address	Direction / Distance	Map ID	Page
H&S #26	***2950 NUTWOOD AVE***	***SE 1/8 - 1/4 (0.158 mi.)***	***M85***	***312***
EXXON #7-3650	***901 N PLACENTIA AVE***	***SE 1/8 - 1/4 (0.167 mi.)***	***M93***	***351***
ARCO FAC #97	***401 N PLACENTIA AVE***	***SSE 1/8 - 1/4 (0.216 mi.)***	***O99***	***395***
MOBIL #18-FHE	***506 N STATE COLLEGE***	***SSW 1/8 - 1/4 (0.225 mi.)***	***P105***	***426***
FULLERTON 76	***351 N PLACENTIA AVE***	***SSE 1/8 - 1/4 (0.237 mi.)***	***O128***	***535***

CA FID UST: The Facility Inventory Database contains active and inactive underground storage tank locations. The source is the State Water Resource Control Board.

A review of the CA FID UST list, as provided by EDR, and dated 10/31/1994 has revealed that there are 9 CA FID UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
RONALD DAVIS MOBIL (	***2601 YORBA LINDA BLV***	***N 0 - 1/8 (0.032 mi.)***	***H66***	***279***
Facility Id: 30017778				
Status: A				
FULLERTON FIRE STATI	***2555 YORBA LINDA BLV***	***NNW 0 - 1/8 (0.049 mi.)***	***I70***	***288***
Facility Id: 30017785				
Status: A				
CHEVRON STATION #989	***2961 E YORBA LINDA B***	***NE 1/8 - 1/4 (0.234 mi.)***	***R111***	***471***
Facility Id: 30016888				
Status: A				

Lower Elevation	Address	Direction / Distance	Map ID	Page
COLLEGE PARK PLANT	***2501 E COLLEGE PL***	***S 0 - 1/8 (0.112 mi.)***	***K78***	***305***
Facility Id: 30016293				
Status: A				
CHEVRON STATION #960	2950 NUTWOOD AVE	SE 1/8 - 1/4 (0.158 mi.)	M83	310

Facility Id: 30011566 Status: A				
EXXON #7-3650 Facility Id: 30001277 Status: A	***901 N PLACENTIA AVE***	***SE 1/8 - 1/4 (0.167 mi.)***	***M93***	***351***
ARCO FAC #97 Facility Id: 30000593 Status: A	***401 N PLACENTIA AVE***	***SSE 1/8 - 1/4 (0.216 mi.)***	***O99***	***395***
MOBIL #18-FHE Facility Id: 30017279 Status: A	***506 N STATE COLLEGE***	***SSW 1/8 - 1/4 (0.225 mi.)***	***P105***	***426***
SHELL SERVICE STATIO Facility Id: 30000978 Status: A	***351 N PLACENTIA AVE***	***SSE 1/8 - 1/4 (0.237 mi.)***	***O121***	***520***

Records of Emergency Release Reports

CA CHMIRS: The California Hazardous Material Incident Report System contains information on reported hazardous material incidents, i.e., accidental releases or spills. The source is the California Office of Emergency Services.

A review of the CA CHMIRS list, as provided by EDR, and dated 10/24/2018 has revealed that there are 2 CA CHMIRS sites within approximately 0.001 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
Not reported OES Incident Number: 1-3473	MCCARTHY HALL/800 N.	0 - 1/8 (0.000 mi.)	E44	225

Lower Elevation	Address	Direction / Distance	Map ID	Page
Not reported OES Incident Number: 0-6199	NUTWOOD AVE. & LANGS	0 - 1/8 (0.000 mi.)	F52	230

Other Ascertainable Records

RCRA NonGen / NLR: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 03/25/2019 has revealed that there are 10 RCRA NonGen / NLR sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MARSHALL B. KETCHUM EPA ID:: CAC002991773	2575 YORBA LINDA BLV	N 0 - 1/8 (0.017 mi.)	56	245
COLLEGE PARK SERVICE	2601 YORBA LINDA BLV	N 0 - 1/8 (0.032 mi.)	H62	248

EPA ID:: CAL000407178				
KMF FULLERTON LLC EPA ID:: CAC002987024	2800 MADISON AVE UNI	E 1/8 - 1/4 (0.129 mi.)	81	308
DORISLEE RAFFERTY EPA ID:: CAC002984406	2252 VISTA DEL SOL	NNW 1/8 - 1/4 (0.225 mi.)	102	422

Lower Elevation	Address	Direction / Distance	Map ID	Page
FULLERTON JUHSD-TROY EPA ID:: CAL000027443	2200 E DOROTHY LN	WSW 0 - 1/8 (0.002 mi.)	G55	243
MOONRAKER APARTMENTS EPA ID:: CAC002975510	2901 NUTWOOD AVE	SE 0 - 1/8 (0.111 mi.)	L77	304
CHEVRON STATION NO 9 EPA ID:: CAR000121319	***2950 NUTWOOD AVENUE***	***SE 1/8 - 1/4 (0.158 mi.)***	***M89***	***339***
DALE & LYNDA MARTIN EPA ID:: CAC002995490	535 SYCAMORE AVE	SSW 1/8 - 1/4 (0.191 mi.)	94	374
OFFICE DEPOT 2215 EPA ID:: CAL000420834	2429 E CHAPMAN AVENU	SSW 1/8 - 1/4 (0.245 mi.)	P133	571
99 CENTS ONLY STORES EPA ID:: CAL000369855	2450 E CHAPMAN AVE	SSW 1/8 - 1/4 (0.246 mi.)	N134	572

FUDS: The Listing includes locations of Formerly Used Defense Sites Properties where the US Army Corps Of Engineers is actively working or will take necessary cleanup actions.

A review of the FUDS list, as provided by EDR, and dated 03/07/2019 has revealed that there is 1 FUDS site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
FULLERTON DAM-E FULL		N 1/2 - 1 (0.576 mi.)	Z162	667

FINDS: The Facility Index System contains both facility information and "pointers" to other sources of information that contain more detail. These include: RCRIS; Permit Compliance System (PCS); Aerometric Information Retrieval System (AIRS); FATES (FIFRA [Federal Insecticide Fungicide Rodenticide Act] and TSCA Enforcement System, FTTS [FIFRA/TSCA Tracking System]; CERCLIS; DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes); Federal Underground Injection Control (FURS); Federal Reporting Data System (FRDS); Surface Impoundments (SIA); TSCA Chemicals in Commerce Information System (CICS); PADS; RCRA-J (medical waste transporters/disposers); TRIS; and TSCA. The source of this database is the U.S. EPA/NTIS.

A review of the FINDS list, as provided by EDR, and dated 02/15/2019 has revealed that there are 2 FINDS sites within approximately 0.001 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
CALIF STATE UNIVERSI Registry ID:: 110065990814	800 STATE COLLEGE	0 - 1/8 (0.000 mi.)	D42	224
CAL STATE FULLERTON Registry ID:: 110066221984	800 STATE COLLEGE	0 - 1/8 (0.000 mi.)	D43	225

EXECUTIVE SUMMARY

CA Cortese: The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

A review of the CA Cortese list, as provided by EDR, and dated 03/25/2019 has revealed that there is 1 CA Cortese site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SHELL #2960	***2960 E YORBA LINDA B***	***ENE 1/4 - 1/2 (0.357 mi.)***	***W146***	***629***
Cleanup Status: OPEN - SITE ASSESSMENT				

CA DRYCLEANERS: A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaners' agents; linen supply; coin-operated laundries and cleaning; drycleaning plants except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

A review of the CA DRYCLEANERS list, as provided by EDR, has revealed that there are 2 CA DRYCLEANERS sites within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
ACE CLEANERS	***2453 E CHAPMAN AVE***	***SSW 1/8 - 1/4 (0.247 mi.)***	***T137***	***583***
Database: DRYCLEAN SOUTH COAST, Date of Government Version: 03/19/2019				
BERKELEY CLEANERS NO	2453 E CHAPMAN	SSW 1/8 - 1/4 (0.247 mi.)	T138	585
Database: DRYCLEAN SOUTH COAST, Date of Government Version: 03/19/2019				

CA EMI: Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies

A review of the CA EMI list, as provided by EDR, and dated 12/31/2017 has revealed that there is 1 CA EMI site within approximately 0.001 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
MARRIOTT HOTEL	***2701 E NUTWOOD AVE***	***0 - 1/8 (0.000 mi.)***	***B39***	***220***
Facility Id: 74293				

CA HAZNET: The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000-1,000,000 annually, representing approximately 350,000-500,000 shipments. Data from non-California manifests & continuation sheets are not included at the present time. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, & disposal method. The source is the Department of Toxic Substance Control is the agency. This database begins with calendar year 1993.

A review of the CA HAZNET list, as provided by EDR, and dated 12/31/2017 has revealed that there are 6 CA HAZNET sites within approximately 0.001 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
THE MARRIOTT HOTEL A	2701 NUTWOOD AVE	0 - 1/8 (0.000 mi.)	B36	215
GEPAID: CAC002685967				
FULLERVALE ASSOCIATE	2600 EAST NUTWOOD AV	0 - 1/8 (0.000 mi.)	F46	227

GEPAID: CAC001247496				
RHODES GROUP & FULLE GEPAID: CAC001109792	2600 NUTWOOD AVENUE	0 - 1/8 (0.000 mi.)	F47	227
SHELDON STEVENS INC GEPAID: CAC001139016	2600 NUTWOOD AVENUE	0 - 1/8 (0.000 mi.)	F49	229
CAL STATE FULLERTON GEPAID: CAC002600087	2600 NUTWOOD AVE	0 - 1/8 (0.000 mi.)	F50	229
COLLEGE PARK GEPAID: CAC001486848	2600 NUTWOOD AVE	0 - 1/8 (0.000 mi.)	F51	229

CA HIST CORTESE: The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

A review of the CA HIST CORTESE list, as provided by EDR, and dated 04/01/2001 has revealed that there are 16 CA HIST CORTESE sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CALIF STATE UNIVERSI Reg Id: 083001992T	***800 STATE COLLEGE***	***0 - 1/8 (0.000 mi.)***	***38***	***216***
RONALD DAVIS MOBIL (Reg Id: 083003521T Reg Id: 083001312T	***2601 YORBA LINDA BLV***	***N 0 - 1/8 (0.032 mi.)***	***H66***	***279***
FULLERTON FIRE STATI Reg Id: 083003607T	***2555 YORBA LINDA BLV***	***NNW 0 - 1/8 (0.049 mi.)***	***I70***	***288***
CHEVRON #9-8976 Reg Id: 083001690T	***2961 YORBA LINDA BLV***	***NE 1/8 - 1/4 (0.234 mi.)***	***R110***	***469***
UNIVERSITY SHELL Reg Id: 083002808T	***2960 YORBA LINDA BLV***	***ENE 1/4 - 1/2 (0.357 mi.)***	***W145***	***597***
SELF SERVE Reg Id: 083002146T	***2978 YORBA LINDA BLV***	***ENE 1/4 - 1/2 (0.373 mi.)***	***W149***	***644***
UNOCAL #5722 Reg Id: 083001689T	3001 YORBA LINDA	ENE 1/4 - 1/2 (0.420 mi.)	X154	658

Lower Elevation	Address	Direction / Distance	Map ID	Page
CAL STATE UNIV FULLE Reg Id: 083000167T	880 STATE COLLEGE	0 - 1/8 (0.000 mi.)	C37	216
ARCO #0097 Reg Id: 083000044T	***401 PLACENTIA AVE***	***SSE 1/8 - 1/4 (0.216 mi.)***	***O100***	***419***
M & J EQUIPMENT Reg Id: 083000226T	***450 PLACENTIA***	***SE 1/8 - 1/4 (0.230 mi.)***	***Q107***	***458***
BRISTOL FIBERLITE IN Reg Id: 083003528T Reg Id: 083002960T Reg Id: 083000072T Reg Id: 083002831T	401	SE 1/8 - 1/4 (0.231 mi.)	Q108	461
SHELL	***351 PLACENTIA AVE***	***SSE 1/8 - 1/4 (0.237 mi.)***	***O125***	***525***

Reg Id: 083001404T				
MOBIL #18-FHE	***506***	***SSW 1/8 - 1/4 (0.241 mi.)***	***P131***	***562***
Reg Id: 083000847T				
SHELL SERVICE STATIO	***2450***	***SSW 1/4 - 1/2 (0.256 mi.)***	***T139***	***586***
Reg Id: 083000364T				
SHELL SERVICE STATIO	***2340 CHAPMAN***	***SSW 1/4 - 1/2 (0.257 mi.)***	***U140***	***587***
Reg Id: 083000918T				
UNOCAL #4629	***820***	***SSE 1/4 - 1/2 (0.313 mi.)***	***V144***	***593***
Reg Id: 083002244T				

CA HWP: Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

A review of the CA HWP list, as provided by EDR, and dated 02/19/2019 has revealed that there is 1 CA HWP site within approximately 1 mile of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
MICRODOT DIV - KAYNA	***190 W CROWTHER AVE***	***SSE 1/2 - 1 (0.798 mi.)***	***AB168***	***682***
EPA Id: CAT080011000				
Cleanup Status: PROTECTIVE FILER				

CA PEST LIC: A listing of licenses and certificates issued by the Department of Pesticide Regulation. The DPR issues licenses and/or certificates to: Persons and businesses that apply or sell pesticides; Pest control dealers and brokers; Persons who advise on agricultural pesticide applications.

A review of the CA PEST LIC list, as provided by EDR, and dated 03/04/2019 has revealed that there is 1 CA PEST LIC site within approximately 0.001 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
DEREK J DOBBS	1900 ASSOCIATED RD	0 - 1/8 (0.000 mi.)	E45	226

CA Notify 65: Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

A review of the CA Notify 65 list, as provided by EDR, and dated 03/18/2019 has revealed that there is 1 CA Notify 65 site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ECONO LUBE N TUNE	***101 S BRADFORD AVE***	***SE 1/2 - 1 (0.735 mi.)***	***AA166***	***680***

MO RRC: Certified Hazardous Waste Resource Recovery Facilities.

A review of the MO RRC list, as provided by EDR, and dated 01/22/2019 has revealed that there is 1 MO RRC site within approximately 1 mile of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
CYCLAMATION, INC.	2548 FENDER AVENUE,	S 1/2 - 1 (0.540 mi.)	159	665

EXECUTIVE SUMMARY

Facility Id: 560
EPA Id: MOCYCLA_NOID

CA CIWQS: The California Integrated Water Quality System (CIWQS) is a computer system used by the State and Regional Water Quality Control Boards to track information about places of environmental interest, manage permits and other orders, track inspections, and manage violations and enforcement activities.

A review of the CA CIWQS list, as provided by EDR, and dated 03/05/2019 has revealed that there is 1 CA CIWQS site within approximately 0.001 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
CSU FULLERTON COLLEG	2555 E NUTWOOD AVE	0 - 1/8 (0.000 mi.)	F48	228

CA CERS: The CalEPA Regulated Site Portal database combines data about environmentally regulated sites and facilities in California into a single database. It combines data from a variety of state and federal databases, and provides an overview of regulated activities across the spectrum of environmental programs for any given location in California. These activities include hazardous materials and waste, state and federal cleanups, impacted ground and surface waters, and toxic materials

A review of the CA CERS list, as provided by EDR, and dated 04/09/2019 has revealed that there are 3 CA CERS sites within approximately 0.001 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CALIF STATE UNIVERSI	***800 STATE COLLEGE***	***0 - 1/8 (0.000 mi.)***	***38***	***216***

Lower Elevation	Address	Direction / Distance	Map ID	Page
MARRIOTT HOTEL	***2701 E NUTWOOD AVE***	***0 - 1/8 (0.000 mi.)***	***B39***	***220***
WINONICS	***1257 STATE COLLEGE B***	***0 - 1/8 (0.000 mi.)***	***41***	***224***

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR Hist Auto: EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

A review of the EDR Hist Auto list, as provided by EDR, has revealed that there is 1 EDR Hist Auto site within approximately 0.125 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
COLLEGE PARK SERVICE	2601 YORBA LINDA BLV	N 0 - 1/8 (0.032 mi.)	H58	246

EXECUTIVE SUMMARY

EDR Hist Cleaner: EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

A review of the EDR Hist Cleaner list, as provided by EDR, has revealed that there are 2 EDR Hist Cleaner sites within approximately 0.125 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
HOLIDAY ONE HOUR CLE	2601 E CHAPMAN AVE	S 0 - 1/8 (0.084 mi.)	J73	297
TOP GUN RETAIL SERVI	2701 E CHAPMAN AVE	SSE 0 - 1/8 (0.094 mi.)	74	297

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

CA RGA LUST: The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the State Water Resources Control Board in California.

A review of the CA RGA LUST list, as provided by EDR, has revealed that there is 1 CA RGA LUST site within approximately 0.001 miles of the target property.

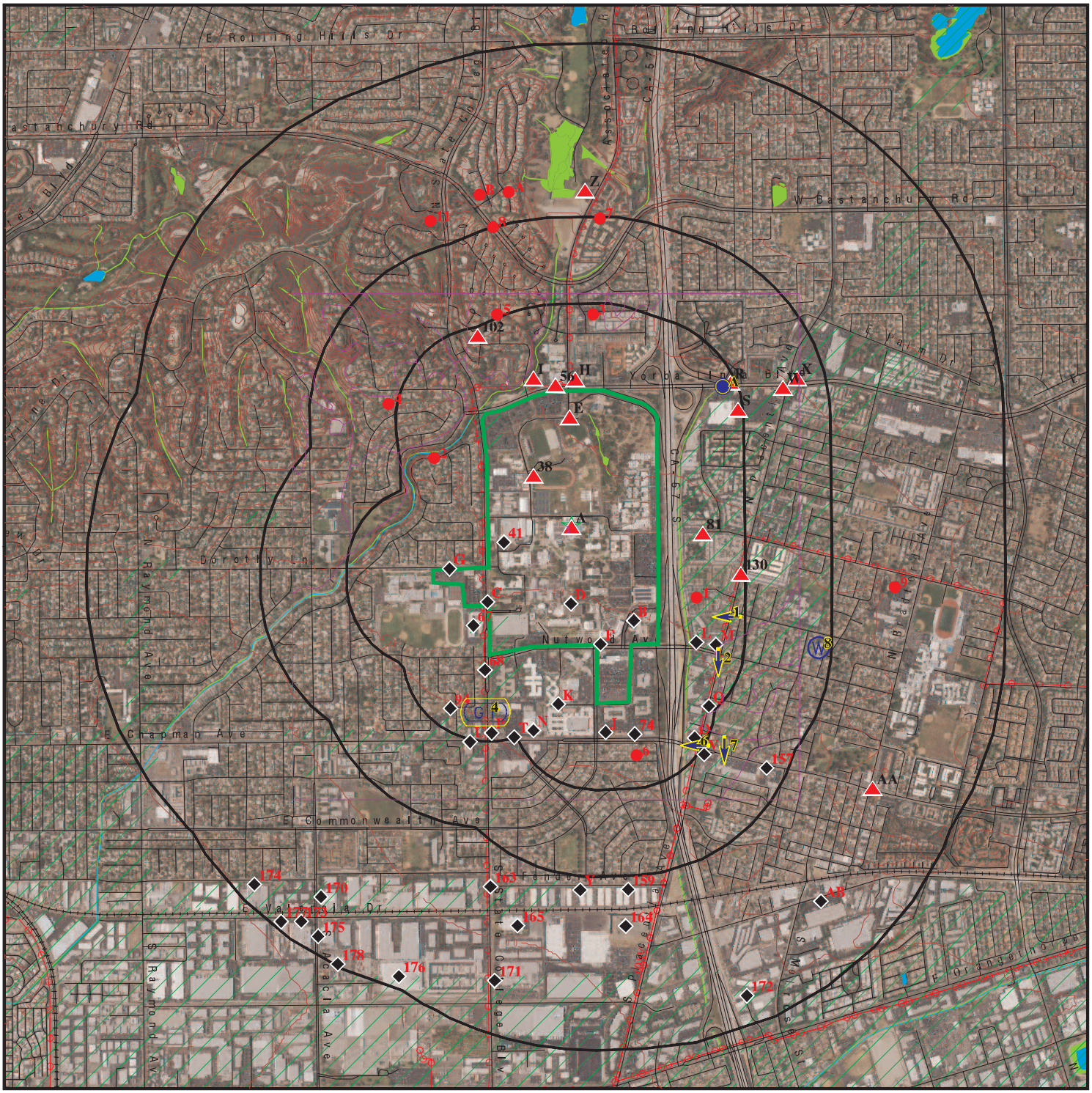
Lower Elevation	Address	Direction / Distance	Map ID	Page
CAL STATE UNIV FULLE	880 NORTH STATE COLL	0 - 1/8 (0.000 mi.)	C40	224

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 10 records.

Site Name	Database(s)
CALIF STATE UNIVERSITY, FULLERTON	CA RGA LUST
CALIF STATE UNIVERSITY, FULLERTON	CA RGA LUST
CALIF STATE UNIVERSITY FULLERTON	CA RGA LUST
CAL STATE UNIV FULLERTON	CA RGA LUST
CAL STATE UNIV FULLERTON	CA RGA LUST
CAL STATE UNIV FULLERTON	CA RGA LUST
CAL STATE FULLERTON	CA RGA LUST
CAL STATE FULLERTON	CA RGA LUST
U S RENTALS	CA LUST, CA HIST CORTESE
TITLE INC DBA FULLERTON UNIVERSITY	RCRA NonGen / NLR

OVERVIEW MAP - 05685060.2R



0 1/4 1/2 1 Miles

- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Power transmission lines
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- State Wetlands
- Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME:	Cal State University Fullerton	CLIENT:	Rincon
ADDRESS:	800 N State College Boulevard Fullerton CA 92831	CONTACT:	Lauren Kodama Roenicke
LAT/LONG:	33.883149 / 117.885404	INQUIRY #:	05685060.2r
		DATE:	June 15, 2019 7:20 am

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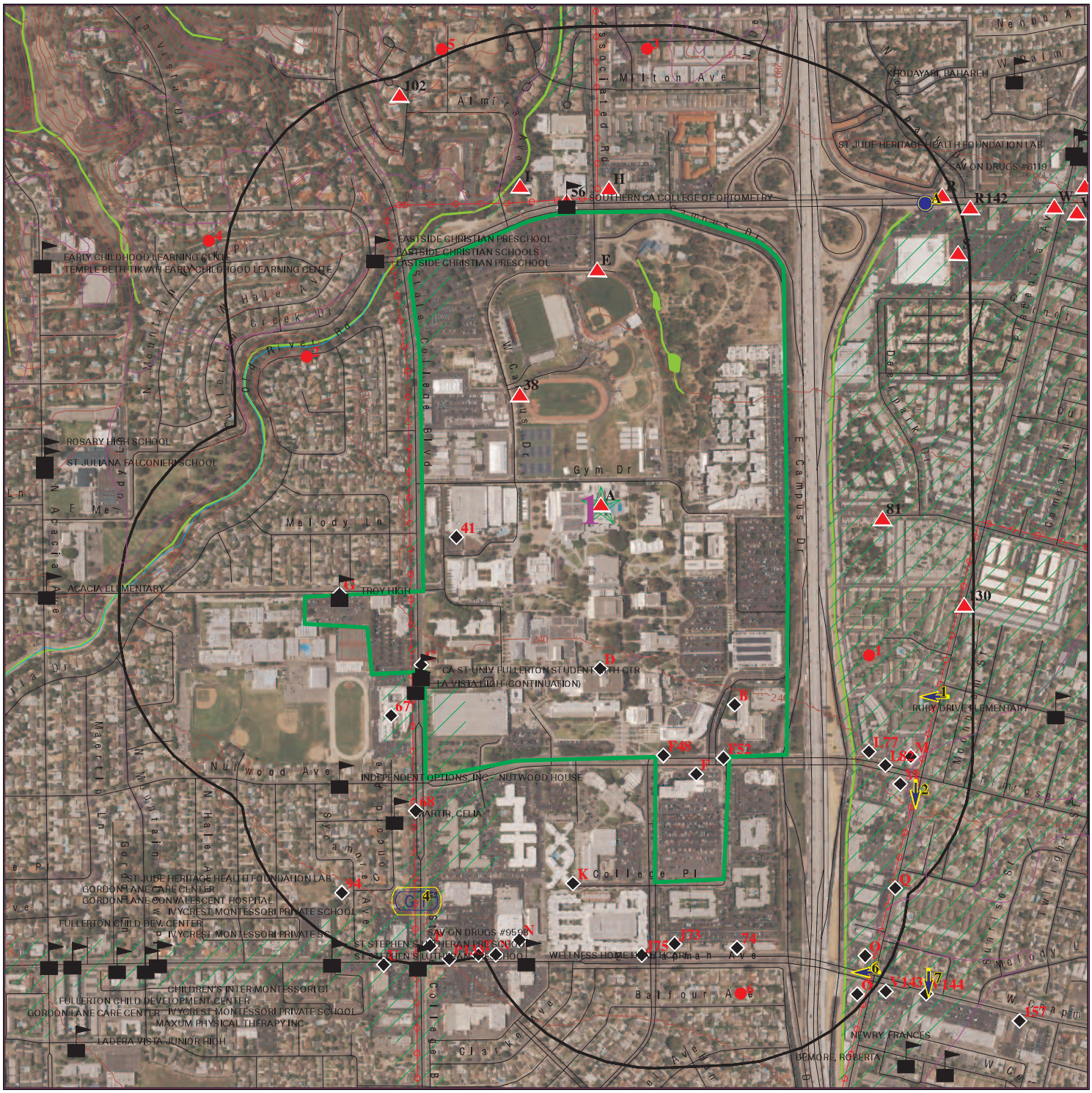
DETAIL MAP - 05685060.2R



Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

Sensitive Receptors

National Priority List Sites

Dept. Defense Sites

Indian Reservations BIA

Power transmission lines

100-year flood zone

500-year flood zone

National Wetland Inventory

State Wetlands

Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME:	Cal State University Fullerton	CLIENT:	Rincon
ADDRESS:	800 N State College Boulevard Fullerton CA 92831	CONTACT:	Lauren Kodama Roenicke
LAT/LONG:	33.883149 / 117.885404	INQUIRY #:	05685060.2r
		DATE:	June 15, 2019 7:22 am

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MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Federal NPL site list								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	0.001		0	NR	NR	NR	NR	0
Federal Delisted NPL site list								
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
Federal CERCLIS NFRAP site list								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
Federal RCRA CORRACTS facilities list								
CORRACTS	1.000		0	0	0	0	NR	0
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Federal RCRA generators list								
RCRA-LQG	0.250	1	0	3	NR	NR	NR	4
RCRA-SQG	0.250		3	4	NR	NR	NR	7
RCRA-CESQG	0.250		0	0	NR	NR	NR	0
Federal institutional controls / engineering controls registries								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	0.001	13	0	NR	NR	NR	NR	13
State- and tribal - equivalent NPL								
CA RESPONSE	1.000		0	0	0	0	NR	0
State- and tribal - equivalent CERCLIS								
CA ENVIROSTOR	1.000		2	0	1	17	NR	20
State and tribal landfill and/or solid waste disposal site lists								
CA SWF/LF	0.500		0	0	0	NR	NR	0
State and tribal leaking storage tank lists								
CA LUST	0.500	2	5	14	14	NR	NR	35

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
INDIAN LUST	0.500		0	0	0	NR	NR	0
CA CPS-SLIC	0.500		1	0	0	NR	NR	1
State and tribal registered storage tank lists								
FEMA UST	0.250		0	0	NR	NR	NR	0
CA UST	0.250	1	5	9	NR	NR	NR	15
CA AST	0.250	1	1	0	NR	NR	NR	2
INDIAN UST	0.250		0	0	NR	NR	NR	0
State and tribal voluntary cleanup sites								
CA VCP	0.500		0	0	0	NR	NR	0
INDIAN VCP	0.500		0	0	0	NR	NR	0
State and tribal Brownfields sites								
CA BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
CA WMUDS/SWAT	0.500		0	0	0	NR	NR	0
CA SWRCY	0.500		0	1	1	NR	NR	2
CA HAULERS	0.001		0	NR	NR	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US HIST CDL	0.001		0	NR	NR	NR	NR	0
CA HIST Cal-Sites	1.000		0	0	0	0	NR	0
CA SCH	0.250		2	0	NR	NR	NR	2
CA CDL	0.001		0	NR	NR	NR	NR	0
CA CERS HAZ WASTE	0.250	1	3	12	NR	NR	NR	16
CA Toxic Pits	1.000		0	0	0	0	NR	0
US CDL	0.001		0	NR	NR	NR	NR	0
CA PFAS	0.001		0	NR	NR	NR	NR	0
Local Lists of Registered Storage Tanks								
CA SWEEPS UST	0.250	1	3	6	NR	NR	NR	10
CA HIST UST	0.250	1	4	10	NR	NR	NR	15
CA CERS TANKS	0.250	1	2	6	NR	NR	NR	9
CA FID UST	0.250		3	6	NR	NR	NR	9
Local Land Records								
CA LIENS	0.001		0	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
LIENS 2	0.001		0	NR	NR	NR	NR	0
CA DEED	0.500		0	0	0	NR	NR	0
Records of Emergency Release Reports								
HMIRS	0.001		0	NR	NR	NR	NR	0
CA CHMIRS	0.001	5	2	NR	NR	NR	NR	7
CA LDS	0.001		0	NR	NR	NR	NR	0
CA MCS	0.001		0	NR	NR	NR	NR	0
CA Orange Co. Industrial Site	0.001		0	NR	NR	NR	NR	0
CA SPILLS 90	0.001		0	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		4	6	NR	NR	NR	10
FUDS	1.000		0	0	0	1	NR	1
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	0.001		0	NR	NR	NR	NR	0
EPA WATCH LIST	0.001		0	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	0.001		0	NR	NR	NR	NR	0
TRIS	0.001		0	NR	NR	NR	NR	0
SSTS	0.001		0	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	0.001		0	NR	NR	NR	NR	0
RAATS	0.001		0	NR	NR	NR	NR	0
PRP	0.001		0	NR	NR	NR	NR	0
PADS	0.001		0	NR	NR	NR	NR	0
ICIS	0.001		0	NR	NR	NR	NR	0
FTTS	0.001		0	NR	NR	NR	NR	0
MLTS	0.001	1	0	NR	NR	NR	NR	1
COAL ASH DOE	0.001		0	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	0.001		0	NR	NR	NR	NR	0
RADINFO	0.001		0	NR	NR	NR	NR	0
HIST FTTS	0.001		0	NR	NR	NR	NR	0
DOT OPS	0.001		0	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	0.001		0	NR	NR	NR	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	0.001		0	NR	NR	NR	NR	0
US AIRS	0.001		0	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.001		0	NR	NR	NR	NR	0
FINDS	0.001	2	2	NR	NR	NR	NR	4
DOCKET HWC	0.001		0	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
ECHO	0.001	1	0	NR	NR	NR	NR	1
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
CA BOND EXP. PLAN	1.000		0	0	0	0	NR	0
CA Cortese	0.500		0	0	1	NR	NR	1

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
CA CUPA Listings	0.250		0	0	NR	NR	NR	0
CA DRYCLEANERS	0.250		0	2	NR	NR	NR	2
CA EMI	0.001	1	1	NR	NR	NR	NR	2
CA ENF	0.001		0	NR	NR	NR	NR	0
CA Financial Assurance	0.001		0	NR	NR	NR	NR	0
CA HAZNET	0.001	1	6	NR	NR	NR	NR	7
CA ICE	0.001		0	NR	NR	NR	NR	0
CA HIST CORTESE	0.500		4	6	6	NR	NR	16
CA HWP	1.000		0	0	0	1	NR	1
CA HWT	0.250		0	0	NR	NR	NR	0
NY MANIFEST	0.250	1	0	0	NR	NR	NR	1
CA MINES	0.001		0	NR	NR	NR	NR	0
CA MWMP	0.250		0	0	NR	NR	NR	0
CA NPDES	0.001	3	0	NR	NR	NR	NR	3
CA PEST LIC	0.001		1	NR	NR	NR	NR	1
CA PROC	0.500		0	0	0	NR	NR	0
CA Notify 65	1.000		0	0	0	1	NR	1
MO RRC	1.000		0	0	0	1	NR	1
CA UIC	0.001		0	NR	NR	NR	NR	0
CA UIC GEO	0.001		0	NR	NR	NR	NR	0
CA WASTEWATER PITS	0.500		0	0	0	NR	NR	0
CA WDS	0.001		0	NR	NR	NR	NR	0
CA MILITARY PRIV SITES	0.001		0	NR	NR	NR	NR	0
CA PROJECT	0.001		0	NR	NR	NR	NR	0
CA WDR	0.001		0	NR	NR	NR	NR	0
CA CIWQS	0.001	9	1	NR	NR	NR	NR	10
CA CERS	0.001	4	3	NR	NR	NR	NR	7
CA WIP	0.250		0	0	NR	NR	NR	0
CA NON-CASE INFO	0.001		0	NR	NR	NR	NR	0
CA OTHER OIL GAS	0.001		0	NR	NR	NR	NR	0
CA PROD WATER PONDS	0.001		0	NR	NR	NR	NR	0
CA SAMPLING POINT	0.001		0	NR	NR	NR	NR	0
CA WELL STIM PROJ	0.001		0	NR	NR	NR	NR	0
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		1	NR	NR	NR	NR	1
EDR Hist Cleaner	0.125		2	NR	NR	NR	NR	2
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
CA RGA LF	0.001		0	NR	NR	NR	NR	0
CA RGA LUST	0.001	1	1	NR	NR	NR	NR	2
- Totals --		51	62	85	23	21	0	242

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

A1 **ERNS** **95278355**
Target Property **800 NORTH STATE COLLEGE** **N/A**
FULLERTON, CA 92634

Site 1 of 35 in cluster A

Actual: 250 ft.

Incident Commons:

NRC Report #:	278355
Description of Incident:	TRACTOR/HYDRAULIC LINE BROKE
Type of Incident:	MOBILE
Incident Cause:	EQUIPMENT FAILURE
Incident Date Time:	1995-02-01 09:00:00
Incident DTG:	DISCOVERED
Incident Location:	Not reported
Loaction Address:	800 NORTH STATE COLLEGE
Location Street 1:	BLVD
Location Street 2:	Not reported
Location Nearest City:	FULLERTON
Location State:	CA
Location County:	ORANGE
Location Zip:	92634
Distance From City:	Not reported
Distance Units:	Not reported
Direction From City:	Not reported
Lat Deg:	Not reported
Lat Min:	Not reported
Lat Sec:	Not reported
Lat Quad:	Not reported
Long Deg:	Not reported
Long Min:	Not reported
Long Sec:	Not reported
Long Quad:	Not reported
Location Section:	Not reported
Location Township:	Not reported
Location range:	Not reported
Potential Range:	Not reported

Incidents:

NRC Report #:	278355
Aircraft Type:	UNKNOWN
Aircraft Model:	Not reported
Aircraft ID:	Not reported
Aircraft Fuel Capacity:	Not reported
Aircraft Fuel Capacity Units:	Not reported
Aircraft Fuel on Board:	Not reported
Aircraft Fuel on Board Units:	Not reported
Aircraft Spot Number:	Not reported
Aircraft Hanger:	Not reported
Aircraft Runway Number:	Not reported
Road Mile Marker:	Not reported
Building ID:	Not reported
Type of Fixed Object:	UNKNOWN
Power Generating Facility:	U
Generating Capacity:	Not reported
Type of Fuel:	Not reported
NPDES:	Not reported
NPDES Compliance:	U
Pipeline Type:	UNKNOWN
DOT Regulated:	U
Pipeline Above Ground:	ABOVE

(Continued) **95278355**

Exposed Underwater:	U
Pipeline Covered:	U
Railroad Hotline:	N
Grade Crossing:	N
Location Subdivision:	Not reported
Railroad Milepost:	UNKNOWN
Type Vehicle Involved:	UNKNOWN
Crossing Device Type:	Not reported
Device Operational:	Y
DOT Crossing Number:	Not reported
Brake Failure:	N
Description of Tank:	Not reported
Tank Above Ground:	ABOVE
Transportable Container:	U
Tank Regulated:	U
Tank Regulated By:	Not reported
Tank ID:	Not reported
Capacity of Tank:	Not reported
Capacity of Tank Units:	Not reported
Actual Amount:	Not reported
Actual Amount Units:	Not reported
Platform Rig Name:	Not reported
Platform Letter:	Not reported
Location Area ID:	Not reported
Location Block ID:	Not reported
OCSG Number:	Not reported
OCSP Number:	Not reported
State Lease Number:	Not reported
Pier Dock Number:	Not reported
Berth Slip Number:	Not reported
Continuous Release Type:	Not reported
Initial Continuous Release No:	Not reported
Continuous Release Permit:	Not reported
Allision:	N
Type of Structure:	Not reported
Structure Name:	Not reported
Structure Operational:	Y
Airbag Deployed:	Not reported
Date Tiem Normal Service:	Not reported
Service Disruption Time:	Not reported
Service Disruption Units:	Not reported
Transit Bus Flag:	Not reported
CR Begin Date:	Not reported
CR End Date:	Not reported
CR Change Date:	Not reported
FBI Contact:	Not reported
FBI Contact Date Time:	Not reported
Sub Part C Testing Req:	XXX
Conductor Testing:	Not reported
Engineer Testing:	Not reported
Trainman Testing:	Not reported
Yard Foreman Testing:	Not reported
RCL Operator Testing:	Not reported
Brakeman Testing:	Not reported
Train Dispatcher Testing:	Not reported
Signalman Testing:	Not reported
Other Employee Testing:	Not reported

(Continued) **95278355**

Unknown Testing:	Not reported
Passenger Handling:	Not reported
Passenger Route:	XXX
Passenger Delay:	XXX

Incident Details:

NRC Report #:	278355
Fire Involved:	N
Fire Extinguished:	U
Any Evacuations:	N
Number Evacuated:	Not reported
Who Evacuated:	Not reported
Radius of Evacuation:	Not reported
Any Injuries:	U
Number Injured:	Not reported
Number Hospitalized:	Not reported
Any Fatalities:	U
Number Fatalities:	Not reported
Any Damages:	N
Damage Amount:	Not reported
Air Corridor Closed:	N
Air Corridor Desc:	Not reported
Air Closure Time:	Not reported
Waterway Closed:	N
Waterway Desc:	Not reported
Waterway Closure Time:	Not reported
Road Closed:	N
Road Desc:	Not reported
Road Closure Time:	Not reported
Closure Direction:	Not reported
Major Artery:	N
Track Closed:	N
Track Desc:	Not reported
Track Closure Time:	Not reported
Media Interest:	Not reported
Medium Desc:	LAND
Additional Medium Info:	SOIL
Body of Water:	Not reported
Tributary of:	Not reported
Release Secured:	U
Estimated Duration of Release:	Not reported
Release rate:	Not reported
Desc Remedial Action:	CLEANUP COMPLETE//WILL TEST SOIL FOR CONTAMINATION
State Agency on Scene:	Not reported
State Agency Report Number:	Not reported
Other Agency Notified:	Not reported
Weather Conditions:	Not reported
Air Temperature:	Not reported
Wind Speed:	Not reported
Wind Direction:	Not reported
Water Supply Contaminated:	U
Sheen Size:	Not reported
Sheen Color:	Not reported
Direction of Sheen Travel:	Not reported
Sheen Odor Description:	Not reported
Wave Condition:	Not reported
Current Speed:	Not reported

(Continued) **95278355**

Current Direction:	Not reported
Water Temperature:	Not reported
Track Close Dir:	Not reported
Empl Fatality:	Not reported
Pass Fatality:	Not reported
Community Impact:	N
Wind Speed Unit:	Not reported
Employee Injuries:	Not reported
Passenger Injuries:	Not reported
Occupant Fatality:	Not reported
Current Speed Unit:	Not reported
Road Closure Units:	Not reported
Track CLosure Units:	Not reported
Sheen Size Units:	Not reported
Additional Info:	WILL NOTIFY: OES//CAL HAZMAT REPORTING SYSTEM
State Agency Notified:	Not reported
Federal Agency Notified:	Not reported
nearest River Mile Marker:	Not reported
Sheen Size Length:	Not reported
Sheen Size Length Units:	Not reported
Sheen Size Width:	Not reported
Sheen Size Width Units:	Not reported
Offshore:	N
Duration Unit:	Not reported
Release Rate Unit:	Not reported
Release Rate Rate:	Not reported
Passengers Transferred:	UNK

Mobile Detail:

NRC Report #:	278355
Vehicle Number:	UNKNOWN1
Trailer Number:	Not reported
Vehicle Own Fuel Capacity:	Not reported
Cargo Capacity:	Not reported
Amount of Cargo on Board:	Not reported
Hazmat Carrier:	U
Carrier Licensed:	U
Noncompliance With Hazmat:	U
Mobile Type:	UNKNOWN
Cargo Capacity Units:	Not reported
Amount of Cargo on Board Units:	Not reported
Vehicle Year:	Not reported
Vehicle Make:	Not reported
Vehicle Model:	Not reported

Calls:

NRC Report #:	278355
Site ID:	95278355
Date Time Received:	1995-02-01 16:20:41
Date Time Complete:	1995-02-01 16:26:32
Call Type:	INC
Responsible Company:	CSU FULLERTON
Responsible Org Type:	STATE GOVERNMENT
Responsible City:	FULLERTON
Responsible State:	CA
Responsible Zip:	92634

(Continued) **95278355**

On Behalf: Not reported
Source: UNAVAILABLE

A2 Target Property | **CALIFORNIA STATE UNIVERSITY, FULLERTON** | **CA LUST** | **U001577075**
800 N STATE COLLEGE BLVD | **CA HIST UST** | **N/A**
FULLERTON, CA 92831 | **CA CHMIRS**
CA EMI
Site 2 of 35 in cluster A | **CA NPDES**
CA CERS

Actual: 250 ft.

LUST:

Lead Agency:	FULLERTON, CITY OF
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0605901490
Global Id:	T0605901490
Latitude:	33.881924
Longitude:	-117.887807
Status:	Completed - Case Closed
Status Date:	08/29/1994
Case Worker:	SRL
RB Case Number:	083001992T
Local Agency:	FULLERTON, CITY OF
File Location:	Not reported
Local Case Number:	Not reported
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

LUST:

Global Id:	T0605901490
Contact Type:	Regional Board Caseworker
Contact Name:	ROSE SCOTT
Organization Name:	SANTA ANA RWQCB (REGION 8)
Address:	3737 MAIN STREET, SUITE 500
City:	RIVERSIDE
Email:	rose.scott@waterboards.ca.gov
Phone Number:	9513206375

Global Id:	T0605901490
Contact Type:	Local Agency Caseworker
Contact Name:	STEPHEN LONG
Organization Name:	FULLERTON, CITY OF
Address:	312 E. COMMONWEALTH AVE.
City:	FULLERTON
Email:	stevel@fullertonfire.org
Phone Number:	7147383160

LUST:

Global Id:	T0605901490
Action Type:	ENFORCEMENT
Date:	08/29/1994
Action:	Closure/No Further Action Letter

Global Id:	T0605901490
Action Type:	Other
Date:	12/02/1991
Action:	Leak Reported

CALIFORNIA STATE UNIVERSITY, FULLERTON (Continued) **U001577075**

Global Id: T0605901490
Action Type: Other
Date: 11/27/1991
Action: Leak Discovery

Global Id: T0605901490
Action Type: Other
Date: 11/27/1991
Action: Leak Stopped

LUST:
Global Id: T0605901490
Status: Completed - Case Closed
Status Date: 08/29/1994

Global Id: T0605901490
Status: Open - Case Begin Date
Status Date: 11/27/1991

Global Id: T0605901490
Status: Open - Site Assessment
Status Date: 12/19/1991

ORANGE CO. LUST:
Region: ORANGE
Facility Id: 87UT128
Released Substance: Gasoline-Automotive (motor gasoline and additives), leaded & unleaded
Date Closed: 07/20/1988
Record ID: RO0001671

Region: ORANGE
Facility Id: 89UT192
Released Substance: Regular gasoline
Date Closed: 05/08/1990
Record ID: RO0001209

HIST UST:
File Number: 0002E68A
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002E68A.pdf
Region: STATE
Facility ID: 00000015797
Facility Type: Other
Other Type: HEATING FUEL OIL
Contact Name: WALTE L. NOWACKI
Telephone: 7147732517
Owner Name: CALIFORNIA STATE UNIVERSITY, F
Owner Address: 800 N. STATE COLLEGE BLVD.
Owner City,St,Zip: FULLERTON, CA 92634
Total Tanks: 0007

Tank Num: 001
Container Num: 1
Year Installed: Not reported
Tank Capacity: 00012000
Tank Used for: PRODUCT

CALIFORNIA STATE UNIVERSITY, FULLERTON (Continued) **U001577075**

Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor

Tank Num:	002
Container Num:	2
Year Installed:	Not reported
Tank Capacity:	00012000
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor

Tank Num:	003
Container Num:	3
Year Installed:	1974
Tank Capacity:	00001000
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Container Construction Thickness:	12"
Leak Detection:	Stock Inventor

Tank Num:	004
Container Num:	4
Year Installed:	1981
Tank Capacity:	00002000
Tank Used for:	PRODUCT
Type of Fuel:	REGULAR
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor

Tank Num:	005
Container Num:	5
Year Installed:	1981
Tank Capacity:	00002000
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor

Tank Num:	006
Container Num:	6
Year Installed:	Not reported
Tank Capacity:	00002000
Tank Used for:	PRODUCT
Type of Fuel:	DIESEL
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor

Tank Num:	007
Container Num:	7
Year Installed:	Not reported
Tank Capacity:	00000100
Tank Used for:	PRODUCT
Type of Fuel:	REGULAR
Container Construction Thickness:	Not reported
Leak Detection:	None

CALIFORNIA STATE UNIVERSITY, FULLERTON (Continued) **U001577075**

Click here for Geo Tracker PDF:

CHMIRS:

OES Incident Number:	2-4696
OES notification:	08/30/2002
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	No
Waterway:	Not reported
Spill Site:	Not reported
Cleanup By:	Reporting Party
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	2002
Agency:	Cal State/Fullerton
Incident Date:	8/30/200212:00:00 AM
Admin Agency:	Fullerton Fire Department
Amount:	Not reported
Contained:	Yes
Site Type:	School
E Date:	Not reported
Substance:	gasoline
Gallons:	0.000000
Unknown:	0
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	0
Number of Injuries:	0

CALIFORNIA STATE UNIVERSITY, FULLERTON (Continued) **U001577075**

Number of Fatalities:	0
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	Soil contaminated with gasoline. Testing will be done.
OES Incident Number:	16-3668
OES notification:	06/17/2016
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	No
Waterway:	Not reported
Spill Site:	School
Cleanup By:	Contractor
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Type:	PETROLEUM
Measure:	Gal(s)
Other:	Not reported
Date/Time:	1552
Year:	2016

CALIFORNIA STATE UNIVERSITY, FULLERTON (Continued) **U001577075**

Agency:	Cal State Fullerton
Incident Date:	05/21/2016
Admin Agency:	Fullerton Fire Department
Amount:	Not reported
Contained:	Yes
Site Type:	Not reported
E Date:	Not reported
Substance:	Hydraulic Fluid
Quantity Released:	80-150
Unknown:	Not reported
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	Not reported
Number of Injuries:	Not reported
Number of Fatalities:	Not reported
#1 Pipeline:	No
#2 Pipeline:	No
#3 Pipeline:	No
#1 Vessel >= 300 Tons:	No
#2 Vessel >= 300 Tons:	No
#3 Vessel >= 300 Tons:	No
Evacs:	No
Injuries:	No
Fatals:	No
Comments:	Not reported
Description:	**POTENTIAL RELEASE** Caller stated that they have a potential release of 80-150 Gal(s) of Hydraulic Fluid due to equipment failure on an elevator's hydraulic line which the caller believes is underground which has the potential to impact soil, caller st

EMI:

Year:	1987
County Code:	30
Air Basin:	SC
Facility ID:	15507
Air District Name:	SC
SIC Code:	8221
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	10
Reactive Organic Gases Tons/Yr:	8
Carbon Monoxide Emissions Tons/Yr:	40
NOX - Oxides of Nitrogen Tons/Yr:	10
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	1
Part. Matter 10 Micrometers and Smllr Tons/Yr:	1

Year:	1990
County Code:	30
Air Basin:	SC
Facility ID:	15507
Air District Name:	SC
SIC Code:	8221
Air District Name:	SOUTH COAST AQMD

CALIFORNIA STATE UNIVERSITY, FULLERTON (Continued) **U001577075**

Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	7
Reactive Organic Gases Tons/Yr:	5
Carbon Monoxide Emissions Tons/Yr:	48
NOX - Oxides of Nitrogen Tons/Yr:	9
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	1
Part. Matter 10 Micrometers and Smllr Tons/Yr:	1

Year:	1993
County Code:	30
Air Basin:	SC
Facility ID:	15507
Air District Name:	SC
SIC Code:	8221
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	13
Reactive Organic Gases Tons/Yr:	10
Carbon Monoxide Emissions Tons/Yr:	33
NOX - Oxides of Nitrogen Tons/Yr:	6
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	1995
County Code:	30
Air Basin:	SC
Facility ID:	15507
Air District Name:	SC
SIC Code:	8221
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	13
Reactive Organic Gases Tons/Yr:	10
Carbon Monoxide Emissions Tons/Yr:	33
NOX - Oxides of Nitrogen Tons/Yr:	6
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	1996
County Code:	30
Air Basin:	SC
Facility ID:	15507
Air District Name:	SC
SIC Code:	8221
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	5
Reactive Organic Gases Tons/Yr:	4
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	1

CALIFORNIA STATE UNIVERSITY, FULLERTON (Continued) **U001577075**

SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2002
County Code:	30
Air Basin:	SC
Facility ID:	15507
Air District Name:	SC
SIC Code:	8221
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	5
Reactive Organic Gases Tons/Yr:	3
Carbon Monoxide Emissions Tons/Yr:	1
NOX - Oxides of Nitrogen Tons/Yr:	2
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2003
County Code:	30
Air Basin:	SC
Facility ID:	15507
Air District Name:	SC
SIC Code:	8221
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	5
Reactive Organic Gases Tons/Yr:	3
Carbon Monoxide Emissions Tons/Yr:	1
NOX - Oxides of Nitrogen Tons/Yr:	2
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2004
County Code:	30
Air Basin:	SC
Facility ID:	15507
Air District Name:	SC
SIC Code:	8221
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	4.8857378
Reactive Organic Gases Tons/Yr:	3.12
Carbon Monoxide Emissions Tons/Yr:	0.50059
NOX - Oxides of Nitrogen Tons/Yr:	1.56573
SOX - Oxides of Sulphur Tons/Yr:	0.0103345
Particulate Matter Tons/Yr:	0.08839164
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0.08

Year:	2005
County Code:	30

CALIFORNIA STATE UNIVERSITY, FULLERTON (Continued) **U001577075**

Air Basin:	SC
Facility ID:	15507
Air District Name:	SC
SIC Code:	8221
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	3.048215
Reactive Organic Gases Tons/Yr:	2.0616626305
Carbon Monoxide Emissions Tons/Yr:	.38221
NOX - Oxides of Nitrogen Tons/Yr:	1.20679
SOX - Oxides of Sulphur Tons/Yr:	.005536
Particulate Matter Tons/Yr:	.06642
Part. Matter 10 Micrometers and Smllr Tons/Yr:	.066316533

Year:	2006
County Code:	30
Air Basin:	SC
Facility ID:	15507
Air District Name:	SC
SIC Code:	8221
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	7.103750870875695401
Reactive Organic Gases Tons/Yr:	4.661
Carbon Monoxide Emissions Tons/Yr:	.441
NOX - Oxides of Nitrogen Tons/Yr:	1.395
SOX - Oxides of Sulphur Tons/Yr:	.006
Particulate Matter Tons/Yr:	.079
Part. Matter 10 Micrometers and Smllr Tons/Yr:	.07862

Year:	2007
County Code:	30
Air Basin:	SC
Facility ID:	15507
Air District Name:	SC
SIC Code:	8221
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	7.096646579672523733
Reactive Organic Gases Tons/Yr:	4.661
Carbon Monoxide Emissions Tons/Yr:	.441
NOX - Oxides of Nitrogen Tons/Yr:	1.395
SOX - Oxides of Sulphur Tons/Yr:	.006
Particulate Matter Tons/Yr:	.079
Part. Matter 10 Micrometers and Smllr Tons/Yr:	.07862

Year:	2008
County Code:	30
Air Basin:	SC
Facility ID:	15507
Air District Name:	SC
SIC Code:	8221
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported

CALIFORNIA STATE UNIVERSITY, FULLERTON (Continued) **U001577075**

Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	5.537870851339841432
Reactive Organic Gases Tons/Yr:	3.012785466029469942
Carbon Monoxide Emissions Tons/Yr:	5.42
NOX - Oxides of Nitrogen Tons/Yr:	8.29
SOX - Oxides of Sulphur Tons/Yr:	.052521
Particulate Matter Tons/Yr:	.288072475
Part. Matter 10 Micrometers and Smllr Tons/Yr:	.2875017325

Year:	2009
County Code:	30
Air Basin:	SC
Facility ID:	15507
Air District Name:	SC
SIC Code:	8221
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1.3134779113711399
Reactive Organic Gases Tons/Yr:	0.50950257099999996
Carbon Monoxide Emissions Tons/Yr:	3.0522399999999998
NOX - Oxides of Nitrogen Tons/Yr:	4.0145900000000001
SOX - Oxides of Sulphur Tons/Yr:	0.019351
Particulate Matter Tons/Yr:	0.11512699999999999
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0.113762162

Year:	2010
County Code:	30
Air Basin:	SC
Facility ID:	15507
Air District Name:	SC
SIC Code:	8221
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	5.2772580676910597
Reactive Organic Gases Tons/Yr:	3.3708827195
Carbon Monoxide Emissions Tons/Yr:	1.6854827194999999
NOX - Oxides of Nitrogen Tons/Yr:	4.3263927195000003
SOX - Oxides of Sulphur Tons/Yr:	0.0186927195
Particulate Matter Tons/Yr:	0.17081271949999999
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0.16893575072

Year:	2011
County Code:	30
Air Basin:	SC
Facility ID:	15507
Air District Name:	SC
SIC Code:	8221
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	8.0064688674
Reactive Organic Gases Tons/Yr:	4.11672
Carbon Monoxide Emissions Tons/Yr:	5.943
NOX - Oxides of Nitrogen Tons/Yr:	8.88093
SOX - Oxides of Sulphur Tons/Yr:	0.05207

CALIFORNIA STATE UNIVERSITY, FULLERTON (Continued) **U001577075**

Particulate Matter Tons/Yr:	0.7334526875
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0.73001392

Year:	2012
County Code:	30
Air Basin:	SC
Facility ID:	15507
Air District Name:	SC
SIC Code:	8221
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	9.0502895563
Reactive Organic Gases Tons/Yr:	4.02196
Carbon Monoxide Emissions Tons/Yr:	4.66441
NOX - Oxides of Nitrogen Tons/Yr:	7.38026
SOX - Oxides of Sulphur Tons/Yr:	0.0337989
Particulate Matter Tons/Yr:	0.676722685
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0.6727084576

Year:	2013
County Code:	30
Air Basin:	SC
Facility ID:	15507
Air District Name:	SC
SIC Code:	8221
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	7.7222100083
Reactive Organic Gases Tons/Yr:	2.889670526
Carbon Monoxide Emissions Tons/Yr:	4.7952
NOX - Oxides of Nitrogen Tons/Yr:	7.87501
SOX - Oxides of Sulphur Tons/Yr:	0.0344989
Particulate Matter Tons/Yr:	0.670763126
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0.6669270134

Year:	2014
County Code:	30
Air Basin:	SC
Facility ID:	15507
Air District Name:	SC
SIC Code:	8221
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	9.0639035215
Reactive Organic Gases Tons/Yr:	4.720575
Carbon Monoxide Emissions Tons/Yr:	4.48009
NOX - Oxides of Nitrogen Tons/Yr:	7.09078
SOX - Oxides of Sulphur Tons/Yr:	0.031995
Particulate Matter Tons/Yr:	1.74061
Part. Matter 10 Micrometers and Smllr Tons/Yr:	1.66546628

Year:	2015
County Code:	30
Air Basin:	SC

CALIFORNIA STATE UNIVERSITY, FULLERTON (Continued) **U001577075**

Facility ID:	15507
Air District Name:	SC
SIC Code:	8221
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	19.125966207
Reactive Organic Gases Tons/Yr:	14.464309395
Carbon Monoxide Emissions Tons/Yr:	4.723747555
NOX - Oxides of Nitrogen Tons/Yr:	7.222469195
SOX - Oxides of Sulphur Tons/Yr:	0.034934203
Particulate Matter Tons/Yr:	3.497738065
Part. Matter 10 Micrometers and Smllr Tons/Yr:	3.4549972312

Year:	2016
County Code:	30
Air Basin:	SC
Facility ID:	15507
Air District Name:	SC
SIC Code:	8221
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	9.1538337601
Reactive Organic Gases Tons/Yr:	2.624011
Carbon Monoxide Emissions Tons/Yr:	5.392823
NOX - Oxides of Nitrogen Tons/Yr:	14.994441
SOX - Oxides of Sulphur Tons/Yr:	0.031933384
Particulate Matter Tons/Yr:	1.8211178
Part. Matter 10 Micrometers and Smllr Tons/Yr:	1.7464491782

NPDES:

Facility Status:	Not reported
NPDES Number:	Not reported
Region:	Not reported
Agency Number:	Not reported
Regulatory Measure ID:	Not reported
Place ID:	Not reported
Order Number:	Not reported
WDID:	8 30W001425
Regulatory Measure Type:	Construction
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	Not reported
Discharge Name:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Status:	Expired
Status Date:	10/27/2013
Operator Name:	California State University Fullerton
Operator Address:	800 North State College Blvd
Operator City:	Fullerton
Operator State:	California

CALIFORNIA STATE UNIVERSITY, FULLERTON (Continued) **U001577075**

Operator Zip: 92831

CERS TANKS:
Site ID: 251554
CERS ID: T0605901490
Site Name: CSUF PHYSICAL PLANT
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:
Affiliation Type Desc: Local Agency Caseworker
Entity Name: STEPHEN LONG - FULLERTON, CITY OF
Entity Title: Not reported
Affiliation Address: 312 E. COMMONWEALTH AVE.
Affiliation City: FULLERTON
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: 7147383160

Affiliation Type Desc: Regional Board Caseworker
Entity Name: ROSE SCOTT - SANTA ANA RWQCB (REGION 8)
Entity Title: Not reported
Affiliation Address: 3737 MAIN STREET, SUITE 500
Affiliation City: RIVERSIDE
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: 9513206375

A3 **ERNS** **94261195**
Target Property **800 NORTH STATE COLLEGE** **N/A**
FULLERTON, CA 92634

Site 3 of 35 in cluster A

Actual: 250 ft.

Incident Commons:
NRC Report #: 261195
Description of Incident: GENERATOR//ACCIDENTAL SPILL
Type of Incident: FIXED
Incident Cause: OPERATOR ERROR
Incident Date Time: 1994-09-16 17:00:00
Incident DTG: OCCURRED
Incident Location: Not reported
Loaction Address: 800 NORTH STATE COLLEGE
Location Street 1: BLVD
Location Street 2: LIBRARY CONSTRUCTION SITE
Location Nearest City: FULLERTON
Location State: CA
Location County: ORANGE
Location Zip: 92634
Distance From City: Not reported
Distance Units: Not reported
Direction From City: Not reported
Lat Deg: Not reported
Lat Min: Not reported
Lat Sec: Not reported
Lat Quad: Not reported

(Continued) **94261195**

Long Deg:	Not reported
Long Min:	Not reported
Long Sec:	Not reported
Long Quad:	Not reported
Location Section:	Not reported
Location Township:	Not reported
Location range:	Not reported
Potential Range:	Not reported

Incidents:

NRC Report #:	261195
Aircraft Type:	UNKNOWN
Aircraft Model:	Not reported
Aircraft ID:	Not reported
Aircraft Fuel Capacity:	Not reported
Aircraft Fuel Capacity Units:	Not reported
Aircraft Fuel on Board:	Not reported
Aircraft Fuel on Board Units:	Not reported
Aircraft Spot Number:	Not reported
Aircraft Hanger:	Not reported
Aircraft Runway Number:	Not reported
Road Mile Marker:	Not reported
Building ID:	Not reported
Type of Fixed Object:	UNKNOWN
Power Generating Facility:	U
Generating Capacity:	Not reported
Type of Fuel:	Not reported
NPDES:	Not reported
NPDES Compliance:	U
Pipeline Type:	UNKNOWN
DOT Regulated:	U
Pipeline Above Ground:	ABOVE
Exposed Underwater:	U
Pipeline Covered:	U
Railroad Hotline:	N
Grade Crossing:	N
Location Subdivision:	Not reported
Railroad Milepost:	UNKNOWN
Type Vehicle Involved:	UNKNOWN
Crossing Device Type:	Not reported
Device Operational:	Y
DOT Crossing Number:	Not reported
Brake Failure:	N
Description of Tank:	Not reported
Tank Above Ground:	ABOVE
Transportable Container:	U
Tank Regulated:	U
Tank Regulated By:	Not reported
Tank ID:	Not reported
Capacity of Tank:	Not reported
Capacity of Tank Units:	Not reported
Actual Amount:	Not reported
Actual Amount Units:	Not reported
Platform Rig Name:	Not reported
Platform Letter:	Not reported
Location Area ID:	Not reported
Location Block ID:	Not reported
OCSG Number:	Not reported

(Continued) **94261195**

OCSP Number:	Not reported
State Lease Number:	Not reported
Pier Dock Number:	Not reported
Berth Slip Number:	Not reported
Continuous Release Type:	Not reported
Initial Continuous Release No:	Not reported
Continuous Release Permit:	Not reported
Allision:	N
Type of Structure:	Not reported
Structure Name:	Not reported
Structure Operational:	Y
Airbag Deployed:	Not reported
Date Tiem Normal Service:	Not reported
Service Disruption Time:	Not reported
Service Disruption Units:	Not reported
Transit Bus Flag:	Not reported
CR Begin Date:	Not reported
CR End Date:	Not reported
CR Change Date:	Not reported
FBI Contact:	Not reported
FBI Contact Date Time:	Not reported
Sub Part C Testing Req:	XXX
Conductor Testing:	Not reported
Engineer Testing:	Not reported
Trainman Testing:	Not reported
Yard Foreman Testing:	Not reported
RCL Operator Testing:	Not reported
Brakeman Testing:	Not reported
Train Dispatcher Testing:	Not reported
Signalman Testing:	Not reported
Other Employee Testing:	Not reported
Unknown Testing:	Not reported
Passenger Handling:	Not reported
Passenger Route:	XXX
Passenger Delay:	XXX

Incident Details:

NRC Report #:	261195
Fire Involved:	N
Fire Extinguished:	U
Any Evacuations:	N
Number Evacuated:	Not reported
Who Evacuated:	Not reported
Radius of Evacuation:	Not reported
Any Injuries:	U
Number Injured:	Not reported
Number Hospitalized:	Not reported
Any Fatalities:	U
Number Fatalities:	Not reported
Any Damages:	N
Damage Amount:	Not reported
Air Corridor Closed:	N
Air Corridor Desc:	Not reported
Air Closure Time:	Not reported
Waterway Closed:	N
Waterway Desc:	Not reported
Waterway Closure Time:	Not reported

(Continued) **94261195**

Road Closed:	N
Road Desc:	Not reported
Road Closure Time:	Not reported
Closure Direction:	Not reported
Major Artery:	N
Track Closed:	N
Track Desc:	Not reported
Track Closure Time:	Not reported
Media Interest:	Not reported
Medium Desc:	LAND
Additional Medium Info:	SOIL
Body of Water:	Not reported
Tributary of:	Not reported
Release Secured:	U
Estimated Duration of Release:	Not reported
Release rate:	Not reported
Desc Remedial Action:	SPILL CONTAINED AND AREA ISOLATED//REMEDIATING SOIL//AND CORE TESTING
State Agency on Scene:	Not reported
State Agency Report Number:	Not reported
Other Agency Notified:	Not reported
Weather Conditions:	Not reported
Air Temperature:	Not reported
Wind Speed:	Not reported
Wind Direction:	Not reported
Water Supply Contaminated:	U
Sheen Size:	Not reported
Sheen Color:	Not reported
Direction of Sheen Travel:	Not reported
Sheen Odor Description:	Not reported
Wave Condition:	Not reported
Current Speed:	Not reported
Current Direction:	Not reported
Water Temperature:	Not reported
Track Close Dir:	Not reported
Empl Fatality:	Not reported
Pass Fatality:	Not reported
Community Impact:	N
Wind Speed Unit:	Not reported
Employee Injuries:	Not reported
Passenger Injuries:	Not reported
Occupant Fatality:	Not reported
Current Speed Unit:	Not reported
Road Closure Units:	Not reported
Track CLosure Units:	Not reported
Sheen Size Units:	Not reported
Additional Info:	WILL NOTIFY:OES
State Agency Notified:	Not reported
Federal Agency Notified:	Not reported
nearest River Mile Marker:	Not reported
Sheen Size Length:	Not reported
Sheen Size Length Units:	Not reported
Sheen Size Width:	Not reported
Sheen Size Width Units:	Not reported
Offshore:	N
Duration Unit:	Not reported
Release Rate Unit:	Not reported
Release Rate Rate:	Not reported

(Continued) **94261195**

Passengers Transferred: UNK

Calls:

NRC Report #:	261195
Site ID:	94261195
Date Time Received:	1994-09-19 12:03:12
Date Time Complete:	1994-09-19 12:06:25
Call Type:	INC
Responsible Company:	CSU FULLERTON
Responsible Org Type:	STATE GOVERNMENT
Responsible City:	FULLERTON
Responsible State:	CA
Responsible Zip:	92634
On Behalf:	Not reported
Source:	UNAVAILABLE

Material Involved:

NRC Report #:	261195
Chris Code:	ODS
Case Number:	Not reported
UN Number:	Not reported
Amount of Material:	40
Unit of Measure:	GALLON(S)
Name of Material:	OIL: DIESEL
If Reached Water:	YES
Amount in Water:	0
Unit of Measure Reach Water:	NONE

A4
Target Property
Actual: 250 ft.

800 NORTH STATE COLLEGE
FULLERTON, CA 92634

ERNS **95300465**
N/A

Site 4 of 35 in cluster A

Incident Commons:

NRC Report #:	300465
Description of Incident:	4 LITER BOTTLE/PRESSURE BUILD UP
Type of Incident:	FIXED
Incident Cause:	OTHER
Incident Date Time:	1995-07-18 15:15:00
Incident DTG:	DISCOVERED
Incident Location:	Not reported
Loaction Address:	800 NORTH STATE COLLEGE
Location Street 1:	BLVD
Location Street 2:	Not reported
Location Nearest City:	FULLERTON
Location State:	CA
Location County:	ORANGE
Location Zip:	92634
Distance From City:	Not reported
Distance Units:	Not reported
Direction From City:	Not reported
Lat Deg:	Not reported
Lat Min:	Not reported
Lat Sec:	Not reported
Lat Quad:	Not reported

(Continued) **95300465**

Long Deg:	Not reported
Long Min:	Not reported
Long Sec:	Not reported
Long Quad:	Not reported
Location Section:	Not reported
Location Township:	Not reported
Location range:	Not reported
Potential Range:	Not reported

Incidents:

NRC Report #:	300465
Aircraft Type:	UNKNOWN
Aircraft Model:	Not reported
Aircraft ID:	Not reported
Aircraft Fuel Capacity:	Not reported
Aircraft Fuel Capacity Units:	Not reported
Aircraft Fuel on Board:	Not reported
Aircraft Fuel on Board Units:	Not reported
Aircraft Spot Number:	Not reported
Aircraft Hanger:	Not reported
Aircraft Runway Number:	Not reported
Road Mile Marker:	Not reported
Building ID:	Not reported
Type of Fixed Object:	UNKNOWN
Power Generating Facility:	U
Generating Capacity:	Not reported
Type of Fuel:	Not reported
NPDES:	Not reported
NPDES Compliance:	U
Pipeline Type:	UNKNOWN
DOT Regulated:	U
Pipeline Above Ground:	ABOVE
Exposed Underwater:	U
Pipeline Covered:	U
Railroad Hotline:	N
Grade Crossing:	N
Location Subdivision:	Not reported
Railroad Milepost:	UNKNOWN
Type Vehicle Involved:	UNKNOWN
Crossing Device Type:	Not reported
Device Operational:	Y
DOT Crossing Number:	Not reported
Brake Failure:	N
Description of Tank:	Not reported
Tank Above Ground:	ABOVE
Transportable Container:	U
Tank Regulated:	U
Tank Regulated By:	Not reported
Tank ID:	Not reported
Capacity of Tank:	Not reported
Capacity of Tank Units:	Not reported
Actual Amount:	Not reported
Actual Amount Units:	Not reported
Platform Rig Name:	Not reported
Platform Letter:	Not reported
Location Area ID:	Not reported
Location Block ID:	Not reported
OCSG Number:	Not reported

(Continued) **95300465**

OCSP Number:	Not reported
State Lease Number:	Not reported
Pier Dock Number:	Not reported
Berth Slip Number:	Not reported
Continuous Release Type:	Not reported
Initial Continuous Release No:	Not reported
Continuous Release Permit:	Not reported
Allision:	N
Type of Structure:	Not reported
Structure Name:	Not reported
Structure Operational:	Y
Airbag Deployed:	Not reported
Date Tiem Normal Service:	Not reported
Service Disruption Time:	Not reported
Service Disruption Units:	Not reported
Transit Bus Flag:	Not reported
CR Begin Date:	Not reported
CR End Date:	Not reported
CR Change Date:	Not reported
FBI Contact:	Not reported
FBI Contact Date Time:	Not reported
Sub Part C Testing Req:	XXX
Conductor Testing:	Not reported
Engineer Testing:	Not reported
Trainman Testing:	Not reported
Yard Foreman Testing:	Not reported
RCL Operator Testing:	Not reported
Brakeman Testing:	Not reported
Train Dispatcher Testing:	Not reported
Signalman Testing:	Not reported
Other Employee Testing:	Not reported
Unknown Testing:	Not reported
Passenger Handling:	Not reported
Passenger Route:	XXX
Passenger Delay:	XXX

Incident Details:

NRC Report #:	300465
Fire Involved:	N
Fire Extinguished:	U
Any Evacuations:	Y
Number Evacuated:	20
Who Evacuated:	Not reported
Radius of Evacuation:	Not reported
Any Injuries:	U
Number Injured:	Not reported
Number Hospitalized:	Not reported
Any Fatalities:	U
Number Fatalities:	Not reported
Any Damages:	N
Damage Amount:	Not reported
Air Corridor Closed:	N
Air Corridor Desc:	Not reported
Air Closure Time:	Not reported
Waterway Closed:	N
Waterway Desc:	Not reported
Waterway Closure Time:	Not reported

(Continued) **95300465**

Road Closed:	N
Road Desc:	Not reported
Road Closure Time:	Not reported
Closure Direction:	Not reported
Major Artery:	N
Track Closed:	N
Track Desc:	Not reported
Track Closure Time:	Not reported
Media Interest:	Not reported
Medium Desc:	UNKNOWN
Additional Medium Info:	FUME HOOD/FLOOR
Body of Water:	Not reported
Tributary of:	Not reported
Release Secured:	U
Estimated Duration of Release:	Not reported
Release rate:	Not reported
Desc Remedial Action:	FIRE DEPT NOTIFIED/CLEANED UP SPILL
State Agency on Scene:	Not reported
State Agency Report Number:	Not reported
Other Agency Notified:	Not reported
Weather Conditions:	Not reported
Air Temperature:	Not reported
Wind Speed:	Not reported
Wind Direction:	Not reported
Water Supply Contaminated:	U
Sheen Size:	Not reported
Sheen Color:	Not reported
Direction of Sheen Travel:	Not reported
Sheen Odor Description:	Not reported
Wave Condition:	Not reported
Current Speed:	Not reported
Current Direction:	Not reported
Water Temperature:	Not reported
Track Close Dir:	Not reported
Empl Fatality:	Not reported
Pass Fatality:	Not reported
Community Impact:	N
Wind Speed Unit:	Not reported
Employee Injuries:	Not reported
Passenger Injuries:	Not reported
Occupant Fatality:	Not reported
Current Speed Unit:	Not reported
Road Closure Units:	Not reported
Track CLosure Units:	Not reported
Sheen Size Units:	Not reported
Additional Info:	EVACUATIONS TO STUDENTS AND FACULTY
State Agency Notified:	Not reported
Federal Agency Notified:	Not reported
nearest River Mile Marker:	Not reported
Sheen Size Length:	Not reported
Sheen Size Length Units:	Not reported
Sheen Size Width:	Not reported
Sheen Size Width Units:	Not reported
Offshore:	N
Duration Unit:	Not reported
Release Rate Unit:	Not reported
Release Rate Rate:	Not reported

(Continued) **95300465**

Passengers Transferred: UNK

Calls:

NRC Report #:	300465
Site ID:	95300465
Date Time Received:	1995-07-18 22:46:17
Date Time Complete:	1995-07-18 22:50:12
Call Type:	INC
Responsible Company:	CSU FULLERTON
Responsible Org Type:	STATE GOVERNMENT
Responsible City:	FULLERTON
Responsible State:	CA
Responsible Zip:	92634
On Behalf:	Not reported
Source:	UNAVAILABLE

Material Involved:

NRC Report #:	300465
Chris Code:	NCC
Case Number:	Not reported
UN Number:	Not reported
Amount of Material:	4
Unit of Measure:	LITER(S)
Name of Material:	SULFURIC ACID AND HYDROGEN PEROXIDE
If Reached Water:	YES
Amount in Water:	0
Unit of Measure Reach Water:	NONE

A5 Target Property | **CSUF PHYSICAL PLANT**
800 N STATE COLLEGE BLVD
FULLERTON, CA 92634 | **FINDS** | **1023325638**
N/A

Site 5 of 35 in cluster A

Actual: 250 ft.

FINDS:

Registry ID: 110066198000

Environmental Interest/Information System
STATE MASTER

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

A6 Target Property — **CALIFORNIA STATE UNIVERSITY FULLERTON HOUSING PHAS**, **800 N STATE COLLEGE BLVD**, **FULLERTON, CA 92831** — **CA CIWQS** — **S121626194** / **N/A**

Site 6 of 35 in cluster A

Actual: 250 ft.

CIWQS:

Agency:	CSU Fullerton
Agency Address:	800 N State College Blvd, Fullerton, CA 92834
Place/Project Type:	Construction
SIC/NAICS:	Not reported
Region:	8
Program:	CONSTW
Regulatory Measure Status:	Terminated
Regulatory Measure Type:	Storm water construction
Order Number:	2009-0009-DWQ
WDID:	8 30C354859
NPDES Number:	CAS000002
Adoption Date:	Not reported
Effective Date:	03/24/2009
Termination Date:	08/19/2011
Expiration/Review Date:	Not reported
Design Flow:	Not reported
Major/Minor:	Not reported
Complexity:	Not reported
TTWQ:	Not reported
Enforcement Actions within 5 years:	0
Violations within 5 years:	0
Latitude:	Not reported
Longitude:	Not reported

A7 Target Property — **CSUF PHYSICAL PLANT**, **800 N STATE COLLEGE BLVD**, **FULLERTON, CA** — **CA RGA LUST** — **S114608230** / **N/A**

Site 7 of 35 in cluster A

Actual: 250 ft.

RGA LUST:

2012	CSUF PHYSICAL PLANT	800 N STATE COLLEGE BLVD
2011	CSUF PHYSICAL PLANT	800 N STATE COLLEGE BLVD
2010	CSUF PHYSICAL PLANT	800 N STATE COLLEGE BLVD
2009	CSUF PHYSICAL PLANT	800 N STATE COLLEGE BLVD
2008	CSUF PHYSICAL PLANT	800 N STATE COLLEGE BLVD

A8 Target Property — **TITAN STUDENT UNION EXPANSION**, **800 NORTH STATE COLLEGE BOULEVARD**, **FULLERTON, CA 92831** — **CA LUST**, **CA CHMIRS**, **CA NPDES**, **CA CIWQS**, **CA CERS** — **S105637610** / **N/A**

Site 8 of 35 in cluster A

Actual: 250 ft.

LUST:

Lead Agency:	ORANGE COUNTY LOP
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0605938267
Global Id:	T0605938267
Latitude:	33.878718
Longitude:	-117.8883
Status:	Completed - Case Closed

TITAN STUDENT UNION EXPANSION (Continued) **S105637610**

Status Date:	05/08/1990
Case Worker:	AM
RB Case Number:	Not reported
Local Agency:	ORANGE COUNTY LOP
File Location:	Local Agency
Local Case Number:	89UT192
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

LUST:

Global Id:	T0605938267
Contact Type:	Local Agency Caseworker
Contact Name:	ANTHONY MARTINEZ
Organization Name:	ORANGE COUNTY LOP
Address:	1241 E. DYER ROAD SUITE 120
City:	SANTA ANA
Email:	amartinez@ochca.com
Phone Number:	7144336011

Global Id:	T0605938267
Contact Type:	Regional Board Caseworker
Contact Name:	ROSE SCOTT
Organization Name:	SANTA ANA RWQCB (REGION 8)
Address:	3737 MAIN STREET, SUITE 500
City:	RIVERSIDE
Email:	rose.scott@waterboards.ca.gov
Phone Number:	9513206375

LUST:

Global Id:	T0605938267
Action Type:	Other
Date:	10/30/1989
Action:	Leak Reported

Global Id:	T0605938267
Action Type:	Other
Date:	10/30/1989
Action:	Leak Discovery

LUST:

Global Id:	T0605938267
Status:	Completed - Case Closed
Status Date:	05/08/1990

Global Id:	T0605938267
Status:	Open - Case Begin Date
Status Date:	10/30/1989

Lead Agency:	ORANGE COUNTY LOP
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0605900127
Global Id:	T0605900127
Latitude:	33.881924
Longitude:	-117.887807
Status:	Completed - Case Closed

TITAN STUDENT UNION EXPANSION (Continued) **S105637610**

Status Date:	07/20/1988
Case Worker:	AM
RB Case Number:	083000167T
Local Agency:	ORANGE COUNTY LOP
File Location:	Local Agency
Local Case Number:	87UT128
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

LUST:

Global Id:	T0605900127
Contact Type:	Local Agency Caseworker
Contact Name:	ANTHONY MARTINEZ
Organization Name:	ORANGE COUNTY LOP
Address:	1241 E. DYER ROAD SUITE 120
City:	SANTA ANA
Email:	amartinez@ochca.com
Phone Number:	7144336011

Global Id:	T0605900127
Contact Type:	Regional Board Caseworker
Contact Name:	PATRICIA HANNON
Organization Name:	SANTA ANA RWQCB (REGION 8)
Address:	3737 MAIN STREET, SUITE 500
City:	RIVERSIDE
Email:	patricia.hannon@waterboards.ca.gov
Phone Number:	Not reported

LUST:

Global Id:	T0605900127
Action Type:	Other
Date:	08/29/1987
Action:	Leak Reported

Global Id:	T0605900127
Action Type:	Other
Date:	08/29/1987
Action:	Leak Discovery

LUST:

Global Id:	T0605900127
Status:	Completed - Case Closed
Status Date:	07/20/1988

Global Id:	T0605900127
Status:	Open - Case Begin Date
Status Date:	08/29/1987

CHMIRS:

OES Incident Number:	1-6160
OES notification:	10/25/2001
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	**Not reported**

TITAN STUDENT UNION EXPANSION (Continued) **S105637610**

Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	No
Waterway:	Not reported
Spill Site:	Not reported
Cleanup By:	Reporting Party
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	2001
Agency:	Cal State University Fullerton
Incident Date:	10/25/200112:00:00 AM
Admin Agency:	Fullerton Fire Department
Amount:	Not reported
Contained:	Yes
Site Type:	School
E Date:	Not reported
Substance:	Gasoline
Gallons:	13
Unknown:	0.000000
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	0
Number of Injuries:	0
Number of Fatalities:	0
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported

TITAN STUDENT UNION EXPANSION (Continued) **S105637610**

Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	Volkswagon gas tank ruptured.
OES Incident Number:	2-5470
OES notification:	10/09/2002
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	No
Waterway:	Not reported
Spill Site:	Not reported
Cleanup By:	Contractor
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	2002
Agency:	Cal State Fullerton
Incident Date:	10/9/200212:00:00 AM
Admin Agency:	Fullerton Fire Department
Amount:	Not reported
Contained:	Yes
Site Type:	School
E Date:	Not reported
Substance:	gasoline
Gallons:	10
Unknown:	0
Substance #2:	Not reported
Substance #3:	Not reported

TITAN STUDENT UNION EXPANSION (Continued) **S105637610**

Evacuations:	0
Number of Injuries:	0
Number of Fatalities:	0
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	Filling above ground storage tank, valve failed and caused a spill.
OES Incident Number:	9-2101
OES notification:	05/17/1999
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	No
Waterway:	Not reported
Spill Site:	Not reported
Cleanup By:	Reporting Party
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	1999
Agency:	UC Fullerton

TITAN STUDENT UNION EXPANSION (Continued) **S105637610**

Incident Date:	5/17/199912:00:00 AM
Admin Agency:	Fullerton Fire Department
Amount:	Not reported
Contained:	Yes
Site Type:	School
E Date:	Not reported
Substance:	Sulfuric acid (93%)
Gallons:	300
Unknown:	0
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	0
Number of Injuries:	0
Number of Fatalities:	0
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	Shutoff valve failure on a 50 gallon day tank. All substance to containment area. Cleanup in process
OES Incident Number:	50
OES notification:	Not reported
OES Date:	1/10/1994
OES Time:	12:57:04 PM
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported

TITAN STUDENT UNION EXPANSION (Continued) **S105637610**

Waterway Involved:	YES
Waterway:	Not reported
Spill Site:	Not reported
Cleanup By:	Not reported
Containment:	Not reported
What Happened:	Not reported
Type:	CHEMICAL
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	1994
Agency:	cal state fullerton
Incident Date:	Not reported
Admin Agency:	Not reported
Amount:	1 gal 2 gal
Contained:	NO
Site Type:	OTHER
E Date:	Not reported
Substance:	crude
Unknown:	Not reported
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	NO
Number of Injuries:	NO
Number of Fatalities:	NO
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	containers fell off transport cart and broke on concrete slab

NPDES:

Facility Status:	Not reported
NPDES Number:	Not reported
Region:	Not reported
Agency Number:	Not reported
Regulatory Measure ID:	Not reported
Place ID:	Not reported
Order Number:	Not reported
WDID:	8 30C373467
Regulatory Measure Type:	Construction
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	Not reported
Discharge Name:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported

TITAN STUDENT UNION EXPANSION (Continued) **S105637610**

Discharge Zip:	Not reported
Status:	Terminated
Status Date:	12/05/2016
Operator Name:	California State University Fullerton
Operator Address:	800 N State College Blvd
Operator City:	Fullerton
Operator State:	California
Operator Zip:	92834

NPDES as of 03/2018:

NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported
Region:	8
Regulatory Measure ID:	457395
Order Number:	Not reported
Regulatory Measure Type:	Construction
Place ID:	Not reported
WDID:	8 30C373467
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	11/22/2016
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Received Date:	07/07/2015
Processed Date:	07/20/2015
Status:	Terminated
Status Date:	12/05/2016
Place Size:	1.46
Place Size Unit:	Acres
Contact:	Stephen Chamberlain
Contact Title:	Not reported
Contact Phone:	657-278-5997
Contact Phone Ext:	Not reported
Contact Email:	schamberlain@fullerton.edu
Operator Name:	California State University Fullerton
Operator Address:	800 N State College Blvd
Operator City:	Fullerton
Operator State:	California
Operator Zip:	92834
Operator Contact:	Stephen Chamberlain
Operator Contact Title:	Not reported
Operator Contact Phone:	657-278-5997
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	schamberlain@fullerton.edu
Operator Type:	State Agency
Developer:	California State University Fullerton
Developer Address:	800 N State College Blvd
Developer City:	Fullerton
Developer State:	California
Developer Zip:	92834
Developer Contact:	Stephen Chamberlain
Developer Contact Title:	Not reported

TITAN STUDENT UNION EXPANSION (Continued) **S105637610**

Constype Linear Utility Ind:	N
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	N
Constype Below Ground Ind:	N
Constype Cable Line Ind:	N
Constype Comm Line Ind:	N
Constype Commertial Ind:	Y
Constype Electrical Line Ind:	N
Constype Gas Line Ind:	N
Constype Industrial Ind:	N
Constype Other Description:	Not reported
Constype Other Ind:	N
Constype Recons Ind:	N
Constype Residential Ind:	N
Constype Transport Ind:	N
Constype Utility Description:	Not reported
Constype Utility Ind:	N
Constype Water Sewer Ind:	N
Dir Discharge Uswater Ind:	N
Receiving Water Name:	Not reported
Certifier:	Stephen Chamberlain
Certifier Title:	Senior Project Manager
Certification Date:	07-JUL-15
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported
NPDES Number:	CAS000002
Status:	Terminated
Agency Number:	0
Region:	8
Regulatory Measure ID:	457395
Order Number:	2009-0009-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	8 30C373467
Program Type:	Construction
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	07/20/2015
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	11/22/2016
Discharge Name:	California State University Fullerton
Discharge Address:	800 N State College Blvd
Discharge City:	Fullerton
Discharge State:	California
Discharge Zip:	92834
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported

TITAN STUDENT UNION EXPANSION (Continued) **S105637610**

Contact Email:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

Facility Status:	Terminated
NPDES Number:	CAS000002
Region:	8
Agency Number:	0
Regulatory Measure ID:	457395
Place ID:	Not reported
Order Number:	2009-0009-DWQ
WDID:	8 30C373467
Regulatory Measure Type:	Enrollee

TITAN STUDENT UNION EXPANSION (Continued) **S105637610**

Program Type:	Construction
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	07/20/2015
Termination Date Of Regulatory Measure:	11/22/2016
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	800 N State College Blvd
Discharge Name:	California State University Fullerton
Discharge City:	Fullerton
Discharge State:	California
Discharge Zip:	92834
Status:	Not reported
Status Date:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported

NPDES as of 03/2018:

NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported
Region:	8
Regulatory Measure ID:	457395
Order Number:	Not reported
Regulatory Measure Type:	Construction
Place ID:	Not reported
WDID:	8 30C373467
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	11/22/2016
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Received Date:	07/07/2015
Processed Date:	07/20/2015
Status:	Terminated
Status Date:	12/05/2016
Place Size:	1.46
Place Size Unit:	Acres
Contact:	Stephen Chamberlain
Contact Title:	Not reported
Contact Phone:	657-278-5997
Contact Phone Ext:	Not reported
Contact Email:	schamberlain@fullerton.edu
Operator Name:	California State University Fullerton
Operator Address:	800 N State College Blvd
Operator City:	Fullerton
Operator State:	California
Operator Zip:	92834
Operator Contact:	Stephen Chamberlain
Operator Contact Title:	Not reported
Operator Contact Phone:	657-278-5997
Operator Contact Phone Ext:	Not reported

TITAN STUDENT UNION EXPANSION (Continued) **S105637610**

Operator Contact Email:	schamberlain@fullerton.edu
Operator Type:	State Agency
Developer:	California State University Fullerton
Developer Address:	800 N State College Blvd
Developer City:	Fullerton
Developer State:	California
Developer Zip:	92834
Developer Contact:	Stephen Chamberlain
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	N
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	N
Constype Below Ground Ind:	N
Constype Cable Line Ind:	N
Constype Comm Line Ind:	N
Constype Commertial Ind:	Y
Constype Electrical Line Ind:	N
Constype Gas Line Ind:	N
Constype Industrial Ind:	N
Constype Other Description:	Not reported
Constype Other Ind:	N
Constype Recons Ind:	N
Constype Residential Ind:	N
Constype Transport Ind:	N
Constype Utility Description:	Not reported
Constype Utility Ind:	N
Constype Water Sewer Ind:	N
Dir Discharge Uswater Ind:	N
Receiving Water Name:	Not reported
Certifier:	Stephen Chamberlain
Certifier Title:	Senior Project Manager
Certification Date:	07-JUL-15
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported
NPDES Number:	CAS000002
Status:	Terminated
Agency Number:	0
Region:	8
Regulatory Measure ID:	457395
Order Number:	2009-0009-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	8 30C373467
Program Type:	Construction
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	07/20/2015
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	11/22/2016
Discharge Name:	California State University Fullerton
Discharge Address:	800 N State College Blvd
Discharge City:	Fullerton
Discharge State:	California
Discharge Zip:	92834
Received Date:	Not reported

TITAN STUDENT UNION EXPANSION (Continued) **S105637610**

Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

TITAN STUDENT UNION EXPANSION (Continued) **S105637610**

CIWQS:

Agency:	California State University Fullerton
Agency Address:	800 N State College Blvd Building T300, Fullerton, CA 92834
Place/Project Type:	Construction - Commercial
SIC/NAICS:	Not reported
Region:	8
Program:	CONSTW
Regulatory Measure Status:	Terminated
Regulatory Measure Type:	Storm water construction
Order Number:	2009-0009-DWQ
WDID:	8 30C373467
NPDES Number:	CAS000002
Adoption Date:	Not reported
Effective Date:	07/20/2015
Termination Date:	11/22/2016
Expiration/Review Date:	Not reported
Design Flow:	Not reported
Major/Minor:	Not reported
Complexity:	Not reported
TTWQ:	Not reported
Enforcement Actions within 5 years:	2
Violations within 5 years:	1
Latitude:	33.87908
Longitude:	-117.88346

CERS TANKS:

Site ID:	250852
CERS ID:	T0605900127
Site Name:	CAL STATE FULLERTON
CERS Description:	Leaking Underground Storage Tank Cleanup Site

Affiliation:

Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	PATRICIA HANNON - SANTA ANA RWQCB (REGION 8)
Entity Title:	Not reported
Affiliation Address:	3737 MAIN STREET, SUITE 500
Affiliation City:	RIVERSIDE
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Local Agency Caseworker
Entity Name:	ANTHONY MARTINEZ - ORANGE COUNTY LOP
Entity Title:	Not reported
Affiliation Address:	1241 E. DYER ROAD SUITE 120
Affiliation City:	SANTA ANA
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	7144336011

A9 **ERNS** **94269325**
Target Property **800 NORTH STATE COLLEGE** **N/A**
FULLERTON, CA 92634

Site 9 of 35 in cluster A

Actual: 250 ft.

Incident Commons:

NRC Report #:	269325
Description of Incident:	CRANK CASE ON TRACTOR / CASING BROKE EN ROUTE
Type of Incident:	MOBILE
Incident Cause:	OTHER
Incident Date Time:	1994-11-11 09:00:00
Incident DTG:	OCCURRED
Incident Location:	Not reported
Loaction Address:	800 NORTH STATE COLLEGE
Location Street 1:	BLVD
Location Street 2:	Not reported
Location Nearest City:	FULLERTON
Location State:	CA
Location County:	ORANGE
Location Zip:	92634
Distance From City:	Not reported
Distance Units:	Not reported
Direction From City:	Not reported
Lat Deg:	Not reported
Lat Min:	Not reported
Lat Sec:	Not reported
Lat Quad:	Not reported
Long Deg:	Not reported
Long Min:	Not reported
Long Sec:	Not reported
Long Quad:	Not reported
Location Section:	Not reported
Location Township:	Not reported
Location range:	Not reported
Potential Range:	Not reported

Incidents:

NRC Report #:	269325
Aircraft Type:	UNKNOWN
Aircraft Model:	Not reported
Aircraft ID:	Not reported
Aircraft Fuel Capacity:	Not reported
Aircraft Fuel Capacity Units:	Not reported
Aircraft Fuel on Board:	Not reported
Aircraft Fuel on Board Units:	Not reported
Aircraft Spot Number:	Not reported
Aircraft Hanger:	Not reported
Aircraft Runway Number:	Not reported
Road Mile Marker:	Not reported
Building ID:	Not reported
Type of Fixed Object:	UNKNOWN
Power Generating Facility:	U
Generating Capacity:	Not reported
Type of Fuel:	Not reported
NPDES:	Not reported
NPDES Compliance:	U
Pipeline Type:	UNKNOWN
DOT Regulated:	U
Pipeline Above Ground:	ABOVE

(Continued) **94269325**

Exposed Underwater:	U
Pipeline Covered:	U
Railroad Hotline:	N
Grade Crossing:	N
Location Subdivision:	Not reported
Railroad Milepost:	UNKNOWN
Type Vehicle Involved:	UNKNOWN
Crossing Device Type:	Not reported
Device Operational:	Y
DOT Crossing Number:	Not reported
Brake Failure:	N
Description of Tank:	Not reported
Tank Above Ground:	ABOVE
Transportable Container:	U
Tank Regulated:	U
Tank Regulated By:	Not reported
Tank ID:	Not reported
Capacity of Tank:	Not reported
Capacity of Tank Units:	Not reported
Actual Amount:	Not reported
Actual Amount Units:	Not reported
Platform Rig Name:	Not reported
Platform Letter:	Not reported
Location Area ID:	Not reported
Location Block ID:	Not reported
OCSG Number:	Not reported
OCSP Number:	Not reported
State Lease Number:	Not reported
Pier Dock Number:	Not reported
Berth Slip Number:	Not reported
Continuous Release Type:	Not reported
Initial Continuous Release No:	Not reported
Continuous Release Permit:	Not reported
Allision:	N
Type of Structure:	Not reported
Structure Name:	Not reported
Structure Operational:	Y
Airbag Deployed:	Not reported
Date Tiem Normal Service:	Not reported
Service Disruption Time:	Not reported
Service Disruption Units:	Not reported
Transit Bus Flag:	Not reported
CR Begin Date:	Not reported
CR End Date:	Not reported
CR Change Date:	Not reported
FBI Contact:	Not reported
FBI Contact Date Time:	Not reported
Sub Part C Testing Req:	XXX
Conductor Testing:	Not reported
Engineer Testing:	Not reported
Trainman Testing:	Not reported
Yard Foreman Testing:	Not reported
RCL Operator Testing:	Not reported
Brakeman Testing:	Not reported
Train Dispatcher Testing:	Not reported
Signalman Testing:	Not reported
Other Employee Testing:	Not reported

(Continued) **94269325**

Unknown Testing:	Not reported
Passenger Handling:	Not reported
Passenger Route:	XXX
Passenger Delay:	XXX

Incident Details:

NRC Report #:	269325
Fire Involved:	N
Fire Extinguished:	U
Any Evacuations:	N
Number Evacuated:	Not reported
Who Evacuated:	Not reported
Radius of Evacuation:	Not reported
Any Injuries:	U
Number Injured:	Not reported
Number Hospitalized:	Not reported
Any Fatalities:	U
Number Fatalities:	Not reported
Any Damages:	N
Damage Amount:	Not reported
Air Corridor Closed:	N
Air Corridor Desc:	Not reported
Air Closure Time:	Not reported
Waterway Closed:	N
Waterway Desc:	Not reported
Waterway Closure Time:	Not reported
Road Closed:	N
Road Desc:	Not reported
Road Closure Time:	Not reported
Closure Direction:	Not reported
Major Artery:	N
Track Closed:	N
Track Desc:	Not reported
Track Closure Time:	Not reported
Media Interest:	Not reported
Medium Desc:	LAND
Additional Medium Info:	ASPHALT
Body of Water:	Not reported
Tributary of:	Not reported
Release Secured:	U
Estimated Duration of Release:	Not reported
Release rate:	Not reported
Desc Remedial Action:	SORBENTS USED
State Agency on Scene:	Not reported
State Agency Report Number:	Not reported
Other Agency Notified:	Not reported
Weather Conditions:	Not reported
Air Temperature:	Not reported
Wind Speed:	Not reported
Wind Direction:	Not reported
Water Supply Contaminated:	U
Sheen Size:	Not reported
Sheen Color:	Not reported
Direction of Sheen Travel:	Not reported
Sheen Odor Description:	Not reported
Wave Condition:	Not reported
Current Speed:	Not reported

(Continued) **94269325**

Current Direction:	Not reported
Water Temperature:	Not reported
Track Close Dir:	Not reported
Empl Fatality:	Not reported
Pass Fatality:	Not reported
Community Impact:	N
Wind Speed Unit:	Not reported
Employee Injuries:	Not reported
Passenger Injuries:	Not reported
Occupant Fatality:	Not reported
Current Speed Unit:	Not reported
Road Closure Units:	Not reported
Track CLosure Units:	Not reported
Sheen Size Units:	Not reported
Additional Info:	WILL NOTIFY: STATE
State Agency Notified:	Not reported
Federal Agency Notified:	Not reported
nearest River Mile Marker:	Not reported
Sheen Size Length:	Not reported
Sheen Size Length Units:	Not reported
Sheen Size Width:	Not reported
Sheen Size Width Units:	Not reported
Offshore:	N
Duration Unit:	Not reported
Release Rate Unit:	Not reported
Release Rate Rate:	Not reported
Passengers Transferred:	UNK

Mobile Detail:

NRC Report #:	269325
Vehicle Number:	UNKNOWN1
Trailer Number:	Not reported
Vehicle Own Fuel Capacity:	Not reported
Cargo Capacity:	Not reported
Amount of Cargo on Board:	Not reported
Hazmat Carrier:	U
Carrier Licensed:	U
Noncompliance With Hazmat:	U
Mobile Type:	UNKNOWN
Cargo Capacity Units:	Not reported
Amount of Cargo on Board Units:	Not reported
Vehicle Year:	Not reported
Vehicle Make:	Not reported
Vehicle Model:	Not reported

Calls:

NRC Report #:	269325
Site ID:	94269325
Date Time Received:	1994-11-11 12:32:42
Date Time Complete:	1994-11-11 12:34:53
Call Type:	INC
Responsible Company:	CSU FULLERTON
Responsible Org Type:	STATE GOVERNMENT
Responsible City:	FULLERTON
Responsible State:	CA
Responsible Zip:	92634

(Continued) **94269325**

On Behalf: Not reported
Source: UNAVAILABLE

Material Involved:
NRC Report #: 269325
Chris Code: OMT
Case Number: Not reported
UN Number: Not reported
Amount of Material: 2
Unit of Measure: GALLON(S)
Name of Material: OIL, MISC: MOTOR
If Reached Water: YES
Amount in Water: 0
Unit of Measure Reach Water: NONE

A10 **ERNS** **9029236**
Target Property **800 NORTH STATE COLLEGE** **N/A**
FULLERTON, CA 92634

Site 10 of 35 in cluster A

Actual: 250 ft.

Incident Commons:
NRC Report #: 29236
Description of Incident: 3" NATURAL GAS LINE / CATERPILLER RUPTURED LINE
Type of Incident: PIPELINE
Incident Cause: EQUIPMENT FAILURE
Incident Date Time: 1990-07-02 14:45:00
Incident DTG: OCCURRED
Incident Location: Not reported
Loaction Address: 800 NORTH STATE COLLEGE
Location Street 1: Not reported
Location Street 2: Not reported
Location Nearest City: FULLERTON
Location State: CA
Location County: ORANGE
Location Zip: 92634
Distance From City: Not reported
Distance Units: Not reported
Direction From City: Not reported
Lat Deg: Not reported
Lat Min: Not reported
Lat Sec: Not reported
Lat Quad: Not reported
Long Deg: Not reported
Long Min: Not reported
Long Sec: Not reported
Long Quad: Not reported
Location Section: Not reported
Location Township: Not reported
Location range: Not reported
Potential Range: Not reported

Incidents:
NRC Report #: 29236
Aircraft Type: UNKNOWN
Aircraft Model: Not reported
Aircraft ID: Not reported

(Continued) **9029236**

Aircraft Fuel Capacity:	Not reported
Aircraft Fuel Capacity Units:	Not reported
Aircraft Fuel on Board:	Not reported
Aircraft Fuel on Board Units:	Not reported
Aircraft Spot Number:	Not reported
Aircraft Hanger:	Not reported
Aircraft Runway Number:	Not reported
Road Mile Marker:	Not reported
Building ID:	Not reported
Type of Fixed Object:	UNKNOWN
Power Generating Facility:	U
Generating Capacity:	Not reported
Type of Fuel:	Not reported
NPDES:	Not reported
NPDES Compliance:	U
Pipeline Type:	UNKNOWN
DOT Regulated:	U
Pipeline Above Ground:	ABOVE
Exposed Underwater:	U
Pipeline Covered:	U
Railroad Hotline:	N
Grade Crossing:	N
Location Subdivision:	Not reported
Railroad Milepost:	UNKNOWN
Type Vehicle Involved:	UNKNOWN
Crossing Device Type:	Not reported
Device Operational:	Y
DOT Crossing Number:	Not reported
Brake Failure:	N
Description of Tank:	Not reported
Tank Above Ground:	ABOVE
Transportable Container:	U
Tank Regulated:	U
Tank Regulated By:	Not reported
Tank ID:	Not reported
Capacity of Tank:	Not reported
Capacity of Tank Units:	Not reported
Actual Amount:	Not reported
Actual Amount Units:	Not reported
Platform Rig Name:	Not reported
Platform Letter:	Not reported
Location Area ID:	Not reported
Location Block ID:	Not reported
OCSG Number:	Not reported
OCSP Number:	Not reported
State Lease Number:	Not reported
Pier Dock Number:	Not reported
Berth Slip Number:	Not reported
Continuous Release Type:	Not reported
Initial Continuous Release No:	Not reported
Continuous Release Permit:	Not reported
Allision:	N
Type of Structure:	Not reported
Structure Name:	Not reported
Structure Operational:	Y
Airbag Deployed:	Not reported
Date Tiem Normal Service:	Not reported

(Continued) **9029236**

Service Disruption Time:	Not reported
Service Disruption Units:	Not reported
Transit Bus Flag:	Not reported
CR Begin Date:	Not reported
CR End Date:	Not reported
CR Change Date:	Not reported
FBI Contact:	Not reported
FBI Contact Date Time:	Not reported
Sub Part C Testing Req:	XXX
Conductor Testing:	Not reported
Engineer Testing:	Not reported
Trainman Testing:	Not reported
Yard Foreman Testing:	Not reported
RCL Operator Testing:	Not reported
Brakeman Testing:	Not reported
Train Dispatcher Testing:	Not reported
Signalman Testing:	Not reported
Other Employee Testing:	Not reported
Unknown Testing:	Not reported
Passenger Handling:	Not reported
Passenger Route:	XXX
Passenger Delay:	XXX

Incident Details:

NRC Report #:	29236
Fire Involved:	N
Fire Extinguished:	U
Any Evacuations:	N
Number Evacuated:	Not reported
Who Evacuated:	Not reported
Radius of Evacuation:	Not reported
Any Injuries:	U
Number Injured:	Not reported
Number Hospitalized:	Not reported
Any Fatalities:	U
Number Fatalities:	Not reported
Any Damages:	N
Damage Amount:	Not reported
Air Corridor Closed:	N
Air Corridor Desc:	Not reported
Air Closure Time:	Not reported
Waterway Closed:	N
Waterway Desc:	Not reported
Waterway Closure Time:	Not reported
Road Closed:	N
Road Desc:	Not reported
Road Closure Time:	Not reported
Closure Direction:	Not reported
Major Artery:	N
Track Closed:	N
Track Desc:	Not reported
Track Closure Time:	Not reported
Media Interest:	Not reported
Medium Desc:	AIR
Additional Medium Info:	Not reported
Body of Water:	Not reported
Tributary of:	Not reported

(Continued) **9029236**

Release Secured:	U
Estimated Duration of Release:	Not reported
Release rate:	Not reported
Desc Remedial Action:	PIPE HAS BEEN SECURED. COLLEGE AND UTILITY COMPANY PERSONNEL RESPONDED.
State Agency on Scene:	Not reported
State Agency Report Number:	Not reported
Other Agency Notified:	Not reported
Weather Conditions:	Not reported
Air Temperature:	Not reported
Wind Speed:	Not reported
Wind Direction:	Not reported
Water Supply Contaminated:	U
Sheen Size:	Not reported
Sheen Color:	Not reported
Direction of Sheen Travel:	Not reported
Sheen Odor Description:	Not reported
Wave Condition:	Not reported
Current Speed:	Not reported
Current Direction:	Not reported
Water Temperature:	Not reported
Track Close Dir:	Not reported
Empl Fatality:	Not reported
Pass Fatality:	Not reported
Community Impact:	N
Wind Speed Unit:	Not reported
Employee Injuries:	Not reported
Passenger Injuries:	Not reported
Occupant Fatality:	Not reported
Current Speed Unit:	Not reported
Road Closure Units:	Not reported
Track CLosure Units:	Not reported
Sheen Size Units:	Not reported
Additional Info:	PIPE LEAKED FOR 35-40 MINUTES
State Agency Notified:	Not reported
Federal Agency Notified:	Not reported
nearest River Mile Marker:	Not reported
Sheen Size Length:	Not reported
Sheen Size Length Units:	Not reported
Sheen Size Width:	Not reported
Sheen Size Width Units:	Not reported
Offshore:	N
Duration Unit:	Not reported
Release Rate Unit:	Not reported
Release Rate Rate:	Not reported
Passengers Transferred:	UNK

Calls:

NRC Report #:	29236
Site ID:	9029236
Date Time Received:	1990-07-02 18:54:25
Date Time Complete:	1990-07-02 18:57:35
Call Type:	INC
Responsible Company:	CALIFORNIA STATE UNIV.
Responsible Org Type:	STATE GOVERNMENT
Responsible City:	FULLERTON
Responsible State:	CA

(Continued) **9029236**

Responsible Zip: 92634
On Behalf: Not reported
Source: UNAVAILABLE

Material Involved:
NRC Report #: 29236
Chris Code: ONG
Case Number: Not reported
UN Number: Not reported
Amount of Material: 0
Unit of Measure: UNKNOWN AMOUNT
Name of Material: NATURAL GAS
If Reached Water: YES
Amount in Water: 0
Unit of Measure Reach Water: NONE

A11 **ERNS** **92130692**
Target Property **800 NORTH STATE COLLEGE** **N/A**
FULLERTON, CA 92364

Site 11 of 35 in cluster A

Actual: 250 ft.

Incident Commons:
NRC Report #: 130692
Description of Incident: TRUCK/FUEL TANK RUPTURED
Type of Incident: MOBILE
Incident Cause: OPERATOR ERROR
Incident Date Time: 1992-08-06 16:30:00
Incident DTG: OCCURRED
Incident Location: Not reported
Loaction Address: 800 NORTH STATE COLLEGE
Location Street 1: BLVD
Location Street 2: Not reported
Location Nearest City: FULLERTON
Location State: CA
Location County: ORANGE
Location Zip: 92364
Distance From City: Not reported
Distance Units: Not reported
Direction From City: Not reported
Lat Deg: Not reported
Lat Min: Not reported
Lat Sec: Not reported
Lat Quad: Not reported
Long Deg: Not reported
Long Min: Not reported
Long Sec: Not reported
Long Quad: Not reported
Location Section: Not reported
Location Township: Not reported
Location range: Not reported
Potential Range: Not reported

Incidents:
NRC Report #: 130692
Aircraft Type: UNKNOWN
Aircraft Model: Not reported

(Continued) **92130692**

Aircraft ID:	Not reported
Aircraft Fuel Capacity:	Not reported
Aircraft Fuel Capacity Units:	Not reported
Aircraft Fuel on Board:	Not reported
Aircraft Fuel on Board Units:	Not reported
Aircraft Spot Number:	Not reported
Aircraft Hanger:	Not reported
Aircraft Runway Number:	Not reported
Road Mile Marker:	Not reported
Building ID:	Not reported
Type of Fixed Object:	UNKNOWN
Power Generating Facility:	U
Generating Capacity:	Not reported
Type of Fuel:	Not reported
NPDES:	Not reported
NPDES Compliance:	U
Pipeline Type:	UNKNOWN
DOT Regulated:	U
Pipeline Above Ground:	ABOVE
Exposed Underwater:	U
Pipeline Covered:	U
Railroad Hotline:	N
Grade Crossing:	N
Location Subdivision:	Not reported
Railroad Milepost:	UNKNOWN
Type Vehicle Involved:	UNKNOWN
Crossing Device Type:	Not reported
Device Operational:	Y
DOT Crossing Number:	Not reported
Brake Failure:	N
Description of Tank:	Not reported
Tank Above Ground:	ABOVE
Transportable Container:	U
Tank Regulated:	U
Tank Regulated By:	Not reported
Tank ID:	Not reported
Capacity of Tank:	Not reported
Capacity of Tank Units:	Not reported
Actual Amount:	Not reported
Actual Amount Units:	Not reported
Platform Rig Name:	Not reported
Platform Letter:	Not reported
Location Area ID:	Not reported
Location Block ID:	Not reported
OCSG Number:	Not reported
OCSP Number:	Not reported
State Lease Number:	Not reported
Pier Dock Number:	Not reported
Berth Slip Number:	Not reported
Continuous Release Type:	Not reported
Initial Continuous Release No:	Not reported
Continuous Release Permit:	Not reported
Allision:	N
Type of Structure:	Not reported
Structure Name:	Not reported
Structure Operational:	Y
Airbag Deployed:	Not reported

(Continued) **92130692**

Date Tiem Normal Service:	Not reported
Service Disruption Time:	Not reported
Service Disruption Units:	Not reported
Transit Bus Flag:	Not reported
CR Begin Date:	Not reported
CR End Date:	Not reported
CR Change Date:	Not reported
FBI Contact:	Not reported
FBI Contact Date Time:	Not reported
Sub Part C Testing Req:	XXX
Conductor Testing:	Not reported
Engineer Testing:	Not reported
Trainman Testing:	Not reported
Yard Foreman Testing:	Not reported
RCL Operator Testing:	Not reported
Brakeman Testing:	Not reported
Train Dispatcher Testing:	Not reported
Signalman Testing:	Not reported
Other Employee Testing:	Not reported
Unknown Testing:	Not reported
Passenger Handling:	Not reported
Passenger Route:	XXX
Passenger Delay:	XXX

Incident Details:

NRC Report #:	130692
Fire Involved:	N
Fire Extinguished:	Not reported
Any Evacuations:	N
Number Evacuated:	Not reported
Who Evacuated:	Not reported
Radius of Evacuation:	Not reported
Any Injuries:	U
Number Injured:	Not reported
Number Hospitalized:	Not reported
Any Fatalities:	U
Number Fatalities:	Not reported
Any Damages:	N
Damage Amount:	Not reported
Air Corridor Closed:	Not reported
Air Corridor Desc:	Not reported
Air Closure Time:	Not reported
Waterway Closed:	Not reported
Waterway Desc:	Not reported
Waterway Closure Time:	Not reported
Road Closed:	Not reported
Road Desc:	Not reported
Road Closure Time:	Not reported
Closure Direction:	Not reported
Major Artery:	Not reported
Track Closed:	Not reported
Track Desc:	Not reported
Track Closure Time:	Not reported
Media Interest:	Not reported
Medium Desc:	LAND
Additional Medium Info:	ASPHALT
Body of Water:	Not reported

(Continued) **92130692**

Tributary of:	Not reported
Release Secured:	Not reported
Estimated Duration of Release:	Not reported
Release rate:	Not reported
Desc Remedial Action:	STOPPED OPERATIONS AND USED ABSORBENTS
State Agency on Scene:	Not reported
State Agency Report Number:	Not reported
Other Agency Notified:	Not reported
Weather Conditions:	Not reported
Air Temperature:	Not reported
Wind Speed:	Not reported
Wind Direction:	Not reported
Water Supply Contaminated:	Not reported
Sheen Size:	Not reported
Sheen Color:	Not reported
Direction of Sheen Travel:	Not reported
Sheen Odor Description:	Not reported
Wave Condition:	Not reported
Current Speed:	Not reported
Current Direction:	Not reported
Water Temperature:	Not reported
Track Close Dir:	Not reported
Empl Fatality:	Not reported
Pass Fatality:	Not reported
Community Impact:	Not reported
Wind Speed Unit:	Not reported
Employee Injuries:	Not reported
Passenger Injuries:	Not reported
Occupant Fatality:	Not reported
Current Speed Unit:	Not reported
Road Closure Units:	Not reported
Track CLosure Units:	Not reported
Sheen Size Units:	Not reported
Additional Info:	Not reported
State Agency Notified:	Not reported
Federal Agency Notified:	Not reported
nearest River Mile Marker:	Not reported
Sheen Size Length:	Not reported
Sheen Size Length Units:	Not reported
Sheen Size Width:	Not reported
Sheen Size Width Units:	Not reported
Offshore:	Not reported
Duration Unit:	Not reported
Release Rate Unit:	Not reported
Release Rate Rate:	Not reported
Passengers Transferred:	UNK

Mobile Detail:

NRC Report #:	130692
Vehicle Number:	1HTAA18E6DHA15958A
Trailer Number:	Not reported
Vehicle Own Fuel Capacity:	Not reported
Cargo Capacity:	Not reported
Amount of Cargo on Board:	Not reported
Hazmat Carrier:	U
Carrier Licensed:	U
Noncompliance With Hazmat:	U

(Continued) **92130692**

Mobile Type:	UNKNOWN
Cargo Capacity Units:	Not reported
Amount of Cargo on Board Units:	Not reported
Vehicle Year:	Not reported
Vehicle Make:	Not reported
Vehicle Model:	Not reported

Calls:

NRC Report #:	130692
Site ID:	92130692
Date Time Received:	1992-08-06 20:50:03
Date Time Complete:	1992-08-06 20:59:02
Call Type:	INC
Responsible Company:	CAL ST. FULLERTON ENV DEPT
Responsible Org Type:	PRIVATE ENTERPRISE
Responsible City:	FULLERTON
Responsible State:	CA
Responsible Zip:	92364
On Behalf:	Not reported
Source:	UNAVAILABLE

Material Involved:

NRC Report #:	130692
Chris Code:	ODS
Case Number:	Not reported
UN Number:	Not reported
Amount of Material:	2
Unit of Measure:	GALLON(S)
Name of Material:	OIL: DIESEL
If Reached Water:	YES
Amount in Water:	2
Unit of Measure Reach Water:	GALLON(S)

A12 Target Property **CALIFORNIA STATE UNIVERSITY FULLERTON** **RCRA-LQG** **1000388202**
800 N. STATE COLLEGE BLVD., T-1475 **CA UST** **CAT080031461**
FULLERTON, CA 92634

Site 12 of 35 in cluster A

Actual: 250 ft.

RCRA-LQG:

Date form received by agency:	10/26/2018
Facility name:	CALIFORNIA STATE UNIVERSITY FULLERTON
Facility address:	800 N. STATE COLLEGE BLVD., T-1475 FULLERTON, CA 92634-0000
EPA ID:	CAT080031461
Mailing address:	N. STATE COLLEGE BLVD., T-1475 FULLERTON, CA 92634-0000
Contact:	ROBERT DENMAN
Contact address:	N. STATE COLLEGE BLVD., T-1475 FULLERTON, CA 92634-0000
Contact country:	US
Contact telephone:	657-278-8118
Contact email:	RDENMAN@FULLERTON.EDU
EPA Region:	09
Land type:	State
Classification:	Large Quantity Generator

CALIFORNIA STATE UNIVERSITY FULLERTON (Continued) **1000388202**

Description: Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Owner/Operator Summary:

Owner/operator name:	CALIFORNIA STATE UNIVERSITY
Owner/operator address:	GOLDEN SHORE LONG BEACH, CA 90802
Owner/operator country:	US
Owner/operator telephone:	562-951-4000
Owner/operator email:	SAFETY@FULLERTON.EDU
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	State
Owner/Operator Type:	Owner
Owner/Op start date:	01/01/1857
Owner/Op end date:	Not reported

Owner/operator name:	CALIFORNIA STATE UNIVERSITY, FULLERTON
Owner/operator address:	N. STATE COLLEGE BLVD., T-1475 FULLERTON, CA 92634
Owner/operator country:	US
Owner/operator telephone:	657-278-7233
Owner/operator email:	SAFETY@FULLERTON.EDU
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	State
Owner/Operator Type:	Operator
Owner/Op start date:	01/01/1957
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	Yes
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

CALIFORNIA STATE UNIVERSITY FULLERTON (Continued) **1000388202**

Universal Waste Summary:

Waste type: Thermostats
Accumulated waste on-site: Yes
Generated waste on-site: Yes

Waste type: Batteries
Accumulated waste on-site: Yes
Generated waste on-site: Yes

Waste type: Lamps
Accumulated waste on-site: Yes
Generated waste on-site: Yes

Waste type: Pesticides
Accumulated waste on-site: Yes
Generated waste on-site: Yes

Historical Generators:

Date form received by agency: 02/22/2016
Site name: CALIFORNIA STATE UNIVERSITY FULLERTON
Classification: Large Quantity Generator

Date form received by agency: 03/01/2014
Site name: CAL STATE UNIVERSITY FULLERTON
Classification: Large Quantity Generator

Date form received by agency: 05/16/2012
Site name: CALIFORNIA STATE UNIVERSITY FULLERTON
Classification: Large Quantity Generator

Date form received by agency: 03/01/2010
Site name: CALIFORNIA STATE UNIVERSITY FULLERTON
Classification: Large Quantity Generator

Date form received by agency: 01/24/2008
Site name: CALIFORNIA STATE UNIVERSITY, FULLERTON
Classification: Large Quantity Generator

Date form received by agency: 02/22/2006
Site name: CALIFORNIA STATE UNIVERSITY, FULLERTON
Classification: Large Quantity Generator

Date form received by agency: 02/09/2004
Site name: CALIFORNIA STATE UNIVERSITY FULLERTON
Classification: Large Quantity Generator

Date form received by agency: 02/28/2002
Site name: CALIFORNIA STATE UNIVERSITY FULLERTON
Classification: Large Quantity Generator

Date form received by agency: 10/12/2000
Site name: CALIFORNIA STATE UNIVERSITY FULLERTON
Classification: Large Quantity Generator

Date form received by agency: 04/15/1999
Site name: CALIFORNIA STATE UNIVERSITY FULLERTON

CALIFORNIA STATE UNIVERSITY FULLERTON (Continued) **1000388202**

Classification: Large Quantity Generator

Date form received by agency: 09/01/1996
Site name: CA STATE UNIV FULLERTON
Classification: Large Quantity Generator

Date form received by agency: 02/29/1996
Site name: CALIFORNIA STATE UNIVERSITY, FULLERTON
Classification: Large Quantity Generator

Date form received by agency: 03/28/1994
Site name: CSUF
Classification: Large Quantity Generator

Date form received by agency: 03/16/1981
Site name: CA STATE UNIV FULLERTON
Classification: Large Quantity Generator

Hazardous Waste Summary:

. Waste code: 121
. Waste name: Alkaline solution (pH >12.5) with metals (antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, mercury, molybdenum, nickel, selenium, silver, thallium, vanadium, and zinc)

. Waste code: 122
. Waste name: Alkaline solution without metals (pH > 12.5)

. Waste code: 131
. Waste name: Aqueous solution (2 < pH < 12.5) containing reactive anions (azide, bromate, chlorate, cyanide, fluoride, hypochlorite, nitrite, perchlorate, and sulfide anions)

. Waste code: 132
. Waste name: Aqueous solution w/metals (< restricted levels and see waste code 121 for a list of metals)

. Waste code: 133
. Waste name: Aqueous solution with 10% or more total organic residues

. Waste code: 134
. Waste name: Aqueous solution with <10% total organic residues

. Waste code: 135
. Waste name: Unspecified aqueous solution

. Waste code: 141
. Waste name: Off-specification, aged, or surplus inorganics

. Waste code: 151
. Waste name: Asbestos-containing waste

. Waste code: 181
. Waste name: Other inorganic solid waste

. Waste code: 212
. Waste name: Oxygenated solvents (acetone, butanol, ethyl acetate, etc.)

CALIFORNIA STATE UNIVERSITY FULLERTON (Continued) **1000388202**

. Waste code: 213
. Waste name: Hydrocarbon solvents (benzene, hexane, Stoddard, etc.)

. Waste code: 214
. Waste name: Unspecified solvent mixture

. Waste code: 221
. Waste name: Waste oil and mixed oil

. Waste code: 223
. Waste name: Unspecified oil-containing waste

. Waste code: 232
. Waste name: Pesticides and other waste associated with pesticide production

. Waste code: 281
. Waste name: Adhesives

. Waste code: 291
. Waste name: Latex waste

. Waste code: 322
. Waste name: Biological waste other than sewage sludge

. Waste code: 331
. Waste name: Off-specification, aged, or surplus organics

. Waste code: 342
. Waste name: Organic liquids with metals (see 121)

. Waste code: 352
. Waste name: Other organic solids

. Waste code: 512
. Waste name: Other empty containers 30 gallons or more

. Waste code: 541
. Waste name: Photochemicals / photo processing waste

. Waste code: 551
. Waste name: Laboratory waste chemicals

. Waste code: 723
. Waste name: Liquids with chromium (VI) > 500 mg/l

. Waste code: 725
. Waste name: Liquids with mercury > 20 mg/l

. Waste code: 731
. Waste name: Liquids with polychlorinated biphenyls > 50 mg/l

. Waste code: 741
. Waste name: Liquids with halogenated organic compounds > 1000 mg/l

. Waste code: 791
. Waste name: Liquids with pH < 2

CALIFORNIA STATE UNIVERSITY FULLERTON (Continued) **1000388202**

. Waste code: 792
. Waste name: Liquids with pH < 2 with metals

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D003
. Waste name: REACTIVE WASTE

. Waste code: D004
. Waste name: ARSENIC

. Waste code: D005
. Waste name: BARIUM

. Waste code: D006
. Waste name: CADMIUM

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D008
. Waste name: LEAD

. Waste code: D009
. Waste name: MERCURY

. Waste code: D010
. Waste name: SELENIUM

. Waste code: D011
. Waste name: SILVER

. Waste code: D018
. Waste name: BENZENE

. Waste code: D019
. Waste name: CARBON TETRACHLORIDE

. Waste code: D022
. Waste name: CHLOROFORM

. Waste code: D023
. Waste name: O-CRESOL

. Waste code: D024
. Waste name: M-CRESOL

. Waste code: D025
. Waste name: P-CRESOL

. Waste code: D027
. Waste name: 1,4-DICHLOROBENZENE

CALIFORNIA STATE UNIVERSITY FULLERTON (Continued) **1000388202**

. Waste code: D028
. Waste name: 1,2-DICHLOROETHANE

. Waste code: D035
. Waste name: METHYL ETHYL KETONE

. Waste code: D036
. Waste name: NITROBENZENE

. Waste code: D038
. Waste name: PYRIDINE

. Waste code: D040
. Waste name: TRICHLORETHYLENE

. Waste code: F001
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLORETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F002
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F004
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: CRESOLS, CRESYLIC ACID, AND NITROBENZENE; AND THE STILL BOTTOMS FROM THE RECOVERY OF THESE SOLVENTS; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

CALIFORNIA STATE UNIVERSITY FULLERTON (Continued) **1000388202**

. Waste code: F005
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: LABP
. Waste name: LAB PACK

. Waste code: P005
. Waste name: 2-PROPEN-1-OL (OR) ALLYL ALCOHOL

. Waste code: P012
. Waste name: ARSENIC OXIDE AS2O3 (OR) ARSENIC TRIOXIDE

. Waste code: P018
. Waste name: BRUCINE (OR) STRYCHNIDIN-10-ONE, 2,3-DIMETHOXY-

. Waste code: P028
. Waste name: BENZENE, (CHLOROMETHYL)- (OR) BENZYL CHLORIDE

. Waste code: P029
. Waste name: COPPER CYANIDE (OR) COPPER CYANIDE CU(CN)

. Waste code: P030
. Waste name: CYANIDES (SOLUBLE CYANIDE SALTS), NOT OTHERWISE SPECIFIED

. Waste code: P042
. Waste name: 1,2-BENZENEDIOL, 4-[1-HYDROXY-2-(METHYLAMINO)ETHYL]-, (R)- (OR) EPINEPHRINE

. Waste code: P075
. Waste name: NICOTINE, & SALTS (OR) PYRIDINE, 3-(1-METHYL-2-PYRROLIDINYL)-,(S)-, & SALTS

. Waste code: P077
. Waste name: BENZENAMINE, 4-NITRO- (OR) P-NITROANILINE

. Waste code: P095
. Waste name: CARBONIC DICHLORIDE (OR) PHOSGENE

. Waste code: P098
. Waste name: POTASSIUM CYANIDE (OR) POTASSIUM CYANIDE K(CN)

. Waste code: P104
. Waste name: SILVER CYANIDE (OR) SILVER CYANIDE AG(CN)

. Waste code: P105
. Waste name: SODIUM AZIDE

. Waste code: P106
. Waste name: SODIUM CYANIDE (OR) SODIUM CYANIDE NA(CN)

. Waste code: P112

CALIFORNIA STATE UNIVERSITY FULLERTON (Continued) **1000388202**

. Waste name: METHANE, TETRANITRO- (R) (OR) TETRANITROMETHANE (R)

. Waste code: U001
. Waste name: ACETALDEHYDE (I) (OR) ETHANAL (I)

. Waste code: U002
. Waste name: 2-PROPANONE (I) (OR) ACETONE (I)

. Waste code: U003
. Waste name: ACETONITRILE (I,T)

. Waste code: U007
. Waste name: 2-PROPENAMIDE (OR) ACRYLAMIDE

. Waste code: U009
. Waste name: 2-PROPENENITRILE (OR) ACRYLONITRILE

. Waste code: U012
. Waste name: ANILINE (I,T) (OR) BENZENAMINE (I,T)

. Waste code: U019
. Waste name: BENZENE (I,T)

. Waste code: U044
. Waste name: CHLOROFORM (OR) METHANE, TRICHLORO-

. Waste code: U046
. Waste name: CHLOROMETHYL METHYL ETHER (OR) METHANE, CHLOROMETHOXY-

. Waste code: U048
. Waste name: O-CHLOROPHENOL (OR) PHENOL, 2-CHLORO-

. Waste code: U052
. Waste name: CRESOL (CRESYLIC ACID) (OR) PHENOL, METHYL-

. Waste code: U053
. Waste name: 2-BUTENAL (OR) CROTONALDEHYDE

. Waste code: U057
. Waste name: CYCLOHEXANONE (I)

. Waste code: U069
. Waste name: 1,2-BENZENEDICARBOXYLIC ACID, DIBUTYL ESTER (OR) DIBUTYL PHTHALATE

. Waste code: U070
. Waste name: BENZENE, 1,2-DICHLORO- (OR) O-DICHLOROBENZENE

. Waste code: U072
. Waste name: BENZENE, 1,4-DICHLORO- (OR) P-DICHLOROBENZENE

. Waste code: U075
. Waste name: DICHLORODIFLUOROMETHANE (OR) METHANE, DICHLORODIFLUORO-

. Waste code: U077
. Waste name: ETHANE, 1,2-DICHLORO- (OR) ETHYLENE DICHLORIDE

. Waste code: U080

CALIFORNIA STATE UNIVERSITY FULLERTON (Continued) **1000388202**

. Waste name: METHANE, DICHLORO- (OR) METHYLENE CHLORIDE

. Waste code: U102
. Waste name: 1,2-BENZENEDICARBOXYLIC ACID, DIMETHYL ESTER (OR) DIMETHYL PHTHALATE

. Waste code: U107
. Waste name: 1,2-BENZENEDICARBOXYLIC ACID, DIOCTYL ESTER (OR) DI-N-OCTYL PHTHALATE

. Waste code: U108
. Waste name: 1,4-DIETHYLENEOXIDE (OR) 1,4-DIOXANE

. Waste code: U112
. Waste name: ACETIC ACID, ETHYL ESTER (I) (OR) ETHYL ACETATE (I)

. Waste code: U115
. Waste name: ETHYLENE OXIDE (I,T) (OR) OXIRANE (I,T)

. Waste code: U117
. Waste name: ETHANE, 1,1'-OXYBIS-(I) (OR) ETHYL ETHER (I)

. Waste code: U122
. Waste name: FORMALDEHYDE

. Waste code: U123
. Waste name: FORMIC ACID (C,T)

. Waste code: U133
. Waste name: HYDRAZINE (R,T)

. Waste code: U134
. Waste name: HYDROFLUORIC ACID (C,T) (OR) HYDROGEN FLUORIDE (C,T)

. Waste code: U135
. Waste name: HYDROGEN SULFIDE (OR) HYDROGEN SULFIDE H2S

. Waste code: U138
. Waste name: METHANE, IODO- (OR) METHYL IODIDE

. Waste code: U144
. Waste name: ACETIC ACID, LEAD(2+) SALT (OR) LEAD ACETATE

. Waste code: U146
. Waste name: LEAD SUBACETATE (OR) LEAD, BIS(ACETATO-O)TETRAHYDROXYTRI-

. Waste code: U151
. Waste name: MERCURY

. Waste code: U154
. Waste name: METHANOL (I) (OR) METHYL ALCOHOL (I)

. Waste code: U160
. Waste name: 2-BUTANONE, PEROXIDE (R,T) (OR) METHYL ETHYL KETONE PEROXIDE (R,T)

. Waste code: U165
. Waste name: NAPHTHALENE

. Waste code: U169

CALIFORNIA STATE UNIVERSITY FULLERTON (Continued) **1000388202**

. Waste name: BENZENE, NITRO- (OR) NITROBENZENE (I,T)

. Waste code: U170
. Waste name: P-NITROPHENOL (I,T) (OR) PHENOL, 4-NITRO-

. Waste code: U188
. Waste name: PHENOL

. Waste code: U196
. Waste name: PYRIDINE

. Waste code: U201
. Waste name: 1,3-BENZENEDIOL (OR) RESORCINOL

. Waste code: U211
. Waste name: CARBON TETRACHLORIDE (OR) METHANE, TETRACHLORO-

. Waste code: U213
. Waste name: FURAN, TETRAHYDRO-(I) (OR) TETRAHYDROFURAN (I)

. Waste code: U225
. Waste name: BROMOFORM (OR) METHANE, TRIBROMO-

. Waste code: U238
. Waste name: CARBAMIC ACID, ETHYL ESTER (OR) ETHYL CARBAMATE (URETHANE)

. Waste code: U239
. Waste name: BENZENE, DIMETHYL- (I,T) (OR) XYLENE (I)

. Waste code: U328
. Waste name: BENZENAMINE, 2-METHYL- (OR) O-TOLUIDINE

. Waste code: U353
. Waste name: BENZENAMINE, 4-METHYL- (OR) P-TOLUIDINE

. Waste code: U404
. Waste name: ETHANAMINE, N,N-DIETHYL- (OR) TRIETHYLAMINE

Biennial Reports:

Last Biennial Reporting Year: 2017

Annual Waste Handled:

Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.
Amount (Lbs): 23465

Waste code: D002
Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS

CALIFORNIA STATE UNIVERSITY FULLERTON (Continued) **1000388202**

USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.
Amount (Lbs): 16900

Waste code: D003
Waste name: A MATERIAL IS CONSIDERED TO BE A REACTIVE HAZARDOUS WASTE IF IT IS NORMALLY UNSTABLE, REACTS VIOLENTLY WITH WATER, GENERATES TOXIC GASES WHEN EXPOSED TO WATER OR CORROSIVE MATERIALS, OR IF IT IS CAPABLE OF DETONATION OR EXPLOSION WHEN EXPOSED TO HEAT OR A FLAME. ONE EXAMPLE OF SUCH WASTE WOULD BY WASTE GUNPOWDER.
Amount (Lbs): 116

Waste code: D004
Waste name: ARSENIC
Amount (Lbs): 558

Waste code: D005
Waste name: BARIUM
Amount (Lbs): 2040

Waste code: D007
Waste name: CHROMIUM
Amount (Lbs): 8900

Waste code: D008
Waste name: LEAD
Amount (Lbs): 2377

Waste code: D009
Waste name: MERCURY
Amount (Lbs): 8

Waste code: D011
Waste name: SILVER
Amount (Lbs): 40

Waste code: D018
Waste name: BENZENE
Amount (Lbs): 3350

Waste code: D019
Waste name: CARBON TETRACHLORIDE
Amount (Lbs): 1300

Waste code: D022
Waste name: CHLOROFORM
Amount (Lbs): 2308

Waste code: D027
Waste name: 1,4-DICHLOROBENZENE
Amount (Lbs): 950

Waste code: D035
Waste name: METHYL ETHYL KETONE
Amount (Lbs): 8390

CALIFORNIA STATE UNIVERSITY FULLERTON (Continued) **1000388202**

Waste code: D040
Waste name: TRICHLOROETHYLENE
Amount (Lbs): 950

Waste code: F002
Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2-TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE LISTED IN F001, F004, OR F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
Amount (Lbs): 5658

Waste code: F003
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
Amount (Lbs): 19167

Waste code: F005
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
Amount (Lbs): 15067

Waste code: U002
Waste name: ACETONE (I)
Amount (Lbs): 602

Waste code: U165
Waste name: NAPHTHALENE
Amount (Lbs): 2400

Waste code: U188
Waste name: PHENOL
Amount (Lbs): 558

Facility Has Received Notices of Violations:
Regulation violated: Not reported
Area of violation: Generators - Pre-transport
Date violation determined: 08/22/2018
Date achieved compliance: 08/22/2018

CALIFORNIA STATE UNIVERSITY FULLERTON (Continued) **1000388202**

Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 08/31/2018
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 08/22/2018
Date achieved compliance: 10/01/2018
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - Pre-transport
Date violation determined: 08/22/2018
Date achieved compliance: 09/14/2018
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 08/29/2017
Date achieved compliance: 10/02/2017
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - Pre-transport
Date violation determined: 08/29/2017
Date achieved compliance: 08/22/2018
Violation lead agency: State

CALIFORNIA STATE UNIVERSITY FULLERTON (Continued) **1000388202**

Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - Pre-transport
Date violation determined: 08/29/2017
Date achieved compliance: 09/28/2017
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 06/23/2016
Date achieved compliance: 07/28/2016
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - Pre-transport
Date violation determined: 06/23/2016
Date achieved compliance: 07/28/2016
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 05/07/2009
Date achieved compliance: 05/21/2009
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL

CALIFORNIA STATE UNIVERSITY FULLERTON (Continued) **1000388202**

Enforcement action date: 05/07/2009
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 04/07/2009
Date achieved compliance: 04/17/2009
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 04/07/2009
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 262.10-12.A
Area of violation: Generators - General
Date violation determined: 07/31/1992
Date achieved compliance: 06/20/1994
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:
Evaluation date: 08/22/2018
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 10/01/2018
Evaluation lead agency: State

Evaluation date: 08/22/2018
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - Pre-transport
Date achieved compliance: 08/22/2018
Evaluation lead agency: State

Evaluation date: 08/22/2018
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - Pre-transport
Date achieved compliance: 09/14/2018
Evaluation lead agency: State

Evaluation date: 08/29/2017
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

CALIFORNIA STATE UNIVERSITY FULLERTON (Continued) **1000388202**

Area of violation: Generators - Pre-transport
Date achieved compliance: 09/28/2017
Evaluation lead agency: State

Evaluation date: 08/29/2017
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 10/02/2017
Evaluation lead agency: State

Evaluation date: 08/29/2017
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - Pre-transport
Date achieved compliance: 08/22/2018
Evaluation lead agency: State

Evaluation date: 06/23/2016
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 07/28/2016
Evaluation lead agency: State

Evaluation date: 06/23/2016
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - Pre-transport
Date achieved compliance: 07/28/2016
Evaluation lead agency: State

Evaluation date: 08/18/2014
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 04/21/2014
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 04/17/2014
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 04/16/2014
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 03/27/2014
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

CALIFORNIA STATE UNIVERSITY FULLERTON (Continued) **1000388202**

Evaluation date: 01/30/2013
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 06/08/2012
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 05/07/2009
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 05/21/2009
Evaluation lead agency: State

Evaluation date: 04/07/2009
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 04/17/2009
Evaluation lead agency: State

Evaluation date: 05/31/2005
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State Contractor/Grantee

Evaluation date: 10/17/2003
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State Contractor/Grantee

Evaluation date: 06/20/1994
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State Contractor/Grantee

Evaluation date: 07/31/1992
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 06/20/1994
Evaluation lead agency: State Contractor/Grantee

UST:
Facility ID: 7648
Permitting Agency: FULLERTON, CITY OF
Latitude: 33.8792634
Longitude: -117.8881654

A13 Target Property | **PARKING STRUCTURE NO 2**
800 N STATE COLLEGE BLVD
FULLERTON, CA 92831 | **CA NPDES** **S117707443**
CA CIWQS **N/A**

Site 13 of 35 in cluster A

Actual: 250 ft.

NPDES:

Facility Status:	Not reported
NPDES Number:	Not reported
Region:	Not reported
Agency Number:	Not reported
Regulatory Measure ID:	Not reported
Place ID:	Not reported
Order Number:	Not reported
WDID:	8 30C334008
Regulatory Measure Type:	Construction
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	Not reported
Discharge Name:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Status:	Terminated
Status Date:	07/06/2006
Operator Name:	CSU Fullerton
Operator Address:	800 N State College Blvd
Operator City:	Fullerton
Operator State:	California
Operator Zip:	92834

NPDES as of 03/2018:

NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported
Region:	8
Regulatory Measure ID:	284379
Order Number:	Not reported
Regulatory Measure Type:	Construction
Place ID:	Not reported
WDID:	8 30C334008
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Received Date:	05/09/2008
Processed Date:	Not reported
Status:	Terminated
Status Date:	07/06/2006
Place Size:	4
Place Size Unit:	Acres

PARKING STRUCTURE NO 2 (Continued) **S117707443**

Contact:	Will Nighswonger
Contact Title:	Not reported
Contact Phone:	714-278-5997
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	CSU Fullerton
Operator Address:	800 N State College Blvd
Operator City:	Fullerton
Operator State:	California
Operator Zip:	92834
Operator Contact:	Will Nighswonger
Operator Contact Title:	Not reported
Operator Contact Phone:	714-278-5997
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	State Agency
Developer:	Bomel Construction Co Inc
Developer Address:	8195 E Kaiser Blvd
Developer City:	Anaheim
Developer State:	California
Developer Zip:	92808
Developer Contact:	Kasey Shay
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	714-278-2352
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Y
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Underground Drainage Pipes
Certifier:	Robert Gill
Certifier Title:	Environmental Compliance Manager
Certification Date:	18-APR-05
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

CIWQS:

Agency:	CSU Fullerton
Agency Address:	800 N State College Blvd, Fullerton, CA 92834
Place/Project Type:	Construction - Other
SIC/NAICS:	Not reported

PARKING STRUCTURE NO 2 (Continued) **S117707443**

Region:	8
Program:	CONSTW
Regulatory Measure Status:	Terminated
Regulatory Measure Type:	Storm water construction
Order Number:	2009-0009-DWQ
WDID:	8 30C334008
NPDES Number:	CAS000002
Adoption Date:	Not reported
Effective Date:	Not reported
Termination Date:	Not reported
Expiration/Review Date:	Not reported
Design Flow:	Not reported
Major/Minor:	Not reported
Complexity:	Not reported
TTWQ:	Not reported
Enforcement Actions within 5 years:	0
Violations within 5 years:	0
Latitude:	Not reported
Longitude:	Not reported

A14
Target Property
Actual: 250 ft.

PARKING STRUCTURE NO 1 **CA CIWQS** **S121662863**
800 NORTH STATE COLLEGE BLVD **N/A**
FULLERTON, CA 92834

Site 14 of 35 in cluster A

CIWQS:

Agency:	CSU Fullerton
Agency Address:	800 N State College Blvd, Fullerton, CA 92834
Place/Project Type:	Construction - Utility
SIC/NAICS:	Not reported
Region:	8
Program:	CONSTW
Regulatory Measure Status:	Terminated
Regulatory Measure Type:	Storm water construction
Order Number:	99-08DW
WDID:	8 30C321223
NPDES Number:	CAS000002
Adoption Date:	Not reported
Effective Date:	04/25/2003
Termination Date:	02/15/2005
Expiration/Review Date:	Not reported
Design Flow:	Not reported
Major/Minor:	Not reported
Complexity:	Not reported
TTWQ:	Not reported
Enforcement Actions within 5 years:	0
Violations within 5 years:	0
Latitude:	Not reported
Longitude:	Not reported

A15 **CA AST** **A100340841**
Target Property **800 N STATE COLLEGE BLVD** **N/A**
FULLERTON, CA

Site 15 of 35 in cluster A

Actual: 250 ft.

AST:

Certified Unified Program Agencies:	Orange
Owner:	CALIFORNIA STATE UNIVERSITY
Total Gallons:	1,320
CERSID:	Not reported
Facility ID:	Not reported
Business Name:	Not reported
Phone:	Not reported
Fax:	Not reported
Mailing Address:	Not reported
Mailing Address City:	Not reported
Mailing Address State:	Not reported
Mailing Address Zip Code:	Not reported
Operator Name:	Not reported
Operator Phone:	Not reported
Owner Phone:	Not reported
Owner Mail Address:	Not reported
Owner State:	Not reported
Owner Zip Code:	Not reported
Owner Country:	Not reported
Property Owner Name:	Not reported
Property Owner Phone:	Not reported
Property Owner Mailing Address:	Not reported
Property Owner City:	Not reported
Property Owner Stat :	Not reported
Property Owner Zip Code:	Not reported
Property Owner Country:	Not reported
EPAID:	Not reported

A16 **ERNS** **99483989**
Target Property **800 NORTH STATE COLLEGE** **N/A**
FULLERTON, CA

Site 16 of 35 in cluster A

Actual: 250 ft.

Incident Commons:

NRC Report #:	483989
Description of Incident:	WATER TREATMENT FACILITY MACHINERY / THE CAUSE IS UNDER INVESTIGATION /IT MAY HAVE BEEN DUE TO THE FAILURE OF AN AUTOMATIC SHUT OFF VALVE
Type of Incident:	FIXED
Incident Cause:	UNKNOWN
Incident Date Time:	1999-05-17 09:15:00
Incident DTG:	DISCOVERED
Incident Location:	Not reported
Loaction Address:	800 NORTH STATE COLLEGE
Location Street 1:	COOLING TOWER
Location Street 2:	Not reported
Location Nearest City:	FULLERTON
Location State:	CA
Location County:	ORANGE
Location Zip:	Not reported
Distance From City:	Not reported
Distance Units:	Not reported
Direction From City:	Not reported

(Continued) **99483989**

Lat Deg:	Not reported
Lat Min:	Not reported
Lat Sec:	Not reported
Lat Quad:	Not reported
Long Deg:	Not reported
Long Min:	Not reported
Long Sec:	Not reported
Long Quad:	Not reported
Location Section:	Not reported
Location Township:	Not reported
Location range:	Not reported
Potential Range:	Not reported

Incidents:

NRC Report #:	483989
Aircraft Type:	UNKNOWN
Aircraft Model:	Not reported
Aircraft ID:	Not reported
Aircraft Fuel Capacity:	Not reported
Aircraft Fuel Capacity Units:	Not reported
Aircraft Fuel on Board:	Not reported
Aircraft Fuel on Board Units:	Not reported
Aircraft Spot Number:	Not reported
Aircraft Hanger:	Not reported
Aircraft Runway Number:	Not reported
Road Mile Marker:	Not reported
Building ID:	Not reported
Type of Fixed Object:	UNKNOWN
Power Generating Facility:	U
Generating Capacity:	Not reported
Type of Fuel:	Not reported
NPDES:	Not reported
NPDES Compliance:	U
Pipeline Type:	UNKNOWN
DOT Regulated:	U
Pipeline Above Ground:	ABOVE
Exposed Underwater:	U
Pipeline Covered:	U
Railroad Hotline:	N
Grade Crossing:	N
Location Subdivision:	Not reported
Railroad Milepost:	UNKNOWN
Type Vehicle Involved:	UNKNOWN
Crossing Device Type:	Not reported
Device Operational:	Y
DOT Crossing Number:	Not reported
Brake Failure:	N
Description of Tank:	Not reported
Tank Above Ground:	ABOVE
Transportable Container:	U
Tank Regulated:	U
Tank Regulated By:	Not reported
Tank ID:	Not reported
Capacity of Tank:	Not reported
Capacity of Tank Units:	Not reported
Actual Amount:	Not reported
Actual Amount Units:	Not reported
Platform Rig Name:	Not reported

(Continued) **99483989**

Platform Letter:	Not reported
Location Area ID:	Not reported
Location Block ID:	Not reported
OCSG Number:	Not reported
OCSP Number:	Not reported
State Lease Number:	Not reported
Pier Dock Number:	Not reported
Berth Slip Number:	Not reported
Continuous Release Type:	Not reported
Initial Continuous Release No:	Not reported
Continuous Release Permit:	Not reported
Allision:	N
Type of Structure:	Not reported
Structure Name:	Not reported
Structure Operational:	Y
Airbag Deployed:	Not reported
Date Tiem Normal Service:	Not reported
Service Disruption Time:	Not reported
Service Disruption Units:	Not reported
Transit Bus Flag:	Not reported
CR Begin Date:	Not reported
CR End Date:	Not reported
CR Change Date:	Not reported
FBI Contact:	Not reported
FBI Contact Date Time:	Not reported
Sub Part C Testing Req:	XXX
Conductor Testing:	Not reported
Engineer Testing:	Not reported
Trainman Testing:	Not reported
Yard Foreman Testing:	Not reported
RCL Operator Testing:	Not reported
Brakeman Testing:	Not reported
Train Dispatcher Testing:	Not reported
Signalman Testing:	Not reported
Other Employee Testing:	Not reported
Unknown Testing:	Not reported
Passenger Handling:	Not reported
Passenger Route:	XXX
Passenger Delay:	XXX

Incident Details:

NRC Report #:	483989
Fire Involved:	N
Fire Extinguished:	U
Any Evacuations:	N
Number Evacuated:	Not reported
Who Evacuated:	Not reported
Radius of Evacuation:	Not reported
Any Injuries:	U
Number Injured:	Not reported
Number Hospitalized:	Not reported
Any Fatalities:	U
Number Fatalities:	Not reported
Any Damages:	N
Damage Amount:	Not reported
Air Corridor Closed:	N
Air Corridor Desc:	Not reported

(Continued) **99483989**

Air Closure Time:	Not reported
Waterway Closed:	N
Waterway Desc:	Not reported
Waterway Closure Time:	Not reported
Road Closed:	N
Road Desc:	Not reported
Road Closure Time:	Not reported
Closure Direction:	Not reported
Major Artery:	N
Track Closed:	N
Track Desc:	Not reported
Track Closure Time:	Not reported
Media Interest:	Not reported
Medium Desc:	UNKNOWN
Additional Medium Info:	CONCRETE CONTAINMENT
Body of Water:	Not reported
Tributary of:	Not reported
Release Secured:	U
Estimated Duration of Release:	Not reported
Release rate:	Not reported
Desc Remedial Action:	SOLUTION: 93 PERCENT / MATERIAL SPILLED INTO CONTAINMENT / VAC TRUCKDEPLOYED
State Agency on Scene:	Not reported
State Agency Report Number:	Not reported
Other Agency Notified:	Not reported
Weather Conditions:	Not reported
Air Temperature:	Not reported
Wind Speed:	Not reported
Wind Direction:	Not reported
Water Supply Contaminated:	U
Sheen Size:	Not reported
Sheen Color:	Not reported
Direction of Sheen Travel:	Not reported
Sheen Odor Description:	Not reported
Wave Condition:	Not reported
Current Speed:	Not reported
Current Direction:	Not reported
Water Temperature:	Not reported
Track Close Dir:	Not reported
Empl Fatality:	Not reported
Pass Fatality:	Not reported
Community Impact:	N
Wind Speed Unit:	Not reported
Employee Injuries:	Not reported
Passenger Injuries:	Not reported
Occupant Fatality:	Not reported
Current Speed Unit:	Not reported
Road Closure Units:	Not reported
Track CLosure Units:	Not reported
Sheen Size Units:	Not reported
Additional Info:	WILL MAKE NECESSARY NOTIFICATIONS
State Agency Notified:	Not reported
Federal Agency Notified:	Not reported
nearest River Mile Marker:	Not reported
Sheen Size Length:	Not reported
Sheen Size Length Units:	Not reported
Sheen Size Width:	Not reported

(Continued) **99483989**

Sheen Size Width Units: Not reported
Offshore: N
Duration Unit: Not reported
Release Rate Unit: Not reported
Release Rate Rate: Not reported
Passengers Transferred: UNK

Calls:
NRC Report #: 483989
Site ID: 99483989
Date Time Received: 1999-05-17 12:57:56
Date Time Complete: 1999-05-17 13:02:18
Call Type: INC
Responsible Company: CALIFORNIA STATE UNIVERSI
Responsible Org Type: PRIVATE ENTERPRISE
Responsible City: FULLERTON
Responsible State: CA
Responsible Zip: Not reported
On Behalf: Not reported
Source: UNAVAILABLE

Material Involved:
NRC Report #: 483989
Chris Code: SFA
Case Number: Not reported
UN Number: Not reported
Amount of Material: 300
Unit of Measure: GALLON(S)
Name of Material: SULFURIC ACID
If Reached Water: YES
Amount in Water: 0
Unit of Measure Reach Water: NONE

A17 **ERNS** **97406611**
Target Property **800 NORTH STATE COLLEGE** **N/A**
FULLERTON, CA

Site 17 of 35 in cluster A

Actual: 250 ft.

Incident Commons:
NRC Report #: 406611
Description of Incident: POLE MOUNTED TRANSFORMER / POLE WAS KNOCKED OVER CAUSING A RELEASE OFTRANSFORMER OIL TO THE GROUND
Type of Incident: FIXED
Incident Cause: OTHER
Incident Date Time: 1997-10-07 13:00:00
Incident DTG: DISCOVERED
Incident Location: Not reported
Loaction Address: 800 NORTH STATE COLLEGE
Location Street 1: Not reported
Location Street 2: Not reported
Location Nearest City: FULLERTON
Location State: CA
Location County: ORANGE
Location Zip: Not reported
Distance From City: Not reported

(Continued) **97406611**

Distance Units:	Not reported
Direction From City:	Not reported
Lat Deg:	Not reported
Lat Min:	Not reported
Lat Sec:	Not reported
Lat Quad:	Not reported
Long Deg:	Not reported
Long Min:	Not reported
Long Sec:	Not reported
Long Quad:	Not reported
Location Section:	Not reported
Location Township:	Not reported
Location range:	Not reported
Potential Range:	Not reported

Incidents:

NRC Report #:	406611
Aircraft Type:	UNKNOWN
Aircraft Model:	Not reported
Aircraft ID:	Not reported
Aircraft Fuel Capacity:	Not reported
Aircraft Fuel Capacity Units:	Not reported
Aircraft Fuel on Board:	Not reported
Aircraft Fuel on Board Units:	Not reported
Aircraft Spot Number:	Not reported
Aircraft Hanger:	Not reported
Aircraft Runway Number:	Not reported
Road Mile Marker:	Not reported
Building ID:	Not reported
Type of Fixed Object:	UNKNOWN
Power Generating Facility:	U
Generating Capacity:	Not reported
Type of Fuel:	Not reported
NPDES:	Not reported
NPDES Compliance:	U
Pipeline Type:	UNKNOWN
DOT Regulated:	U
Pipeline Above Ground:	ABOVE
Exposed Underwater:	U
Pipeline Covered:	U
Railroad Hotline:	N
Grade Crossing:	N
Location Subdivision:	Not reported
Railroad Milepost:	UNKNOWN
Type Vehicle Involved:	UNKNOWN
Crossing Device Type:	Not reported
Device Operational:	Y
DOT Crossing Number:	Not reported
Brake Failure:	N
Description of Tank:	Not reported
Tank Above Ground:	ABOVE
Transportable Container:	U
Tank Regulated:	U
Tank Regulated By:	Not reported
Tank ID:	Not reported
Capacity of Tank:	Not reported
Capacity of Tank Units:	Not reported
Actual Amount:	Not reported

(Continued) **97406611**

Actual Amount Units:	Not reported
Platform Rig Name:	Not reported
Platform Letter:	Not reported
Location Area ID:	Not reported
Location Block ID:	Not reported
OCSG Number:	Not reported
OCSP Number:	Not reported
State Lease Number:	Not reported
Pier Dock Number:	Not reported
Berth Slip Number:	Not reported
Continuous Release Type:	Not reported
Initial Continuous Release No:	Not reported
Continuous Release Permit:	Not reported
Allision:	N
Type of Structure:	Not reported
Structure Name:	Not reported
Structure Operational:	Y
Airbag Deployed:	Not reported
Date Tiem Normal Service:	Not reported
Service Disruption Time:	Not reported
Service Disruption Units:	Not reported
Transit Bus Flag:	Not reported
CR Begin Date:	Not reported
CR End Date:	Not reported
CR Change Date:	Not reported
FBI Contact:	Not reported
FBI Contact Date Time:	Not reported
Sub Part C Testing Req:	XXX
Conductor Testing:	Not reported
Engineer Testing:	Not reported
Trainman Testing:	Not reported
Yard Foreman Testing:	Not reported
RCL Operator Testing:	Not reported
Brakeman Testing:	Not reported
Train Dispatcher Testing:	Not reported
Signalman Testing:	Not reported
Other Employee Testing:	Not reported
Unknown Testing:	Not reported
Passenger Handling:	Not reported
Passenger Route:	XXX
Passenger Delay:	XXX

Incident Details:

NRC Report #:	406611
Fire Involved:	N
Fire Extinguished:	U
Any Evacuations:	N
Number Evacuated:	Not reported
Who Evacuated:	Not reported
Radius of Evacuation:	Not reported
Any Injuries:	U
Number Injured:	Not reported
Number Hospitalized:	Not reported
Any Fatalities:	U
Number Fatalities:	Not reported
Any Damages:	N
Damage Amount:	Not reported

(Continued) **97406611**

Air Corridor Closed:	N
Air Corridor Desc:	Not reported
Air Closure Time:	Not reported
Waterway Closed:	N
Waterway Desc:	Not reported
Waterway Closure Time:	Not reported
Road Closed:	N
Road Desc:	Not reported
Road Closure Time:	Not reported
Closure Direction:	Not reported
Major Artery:	N
Track Closed:	N
Track Desc:	Not reported
Track Closure Time:	Not reported
Media Interest:	Not reported
Medium Desc:	LAND
Additional Medium Info:	CONCRETE
Body of Water:	Not reported
Tributary of:	Not reported
Release Secured:	U
Estimated Duration of Release:	Not reported
Release rate:	Not reported
Desc Remedial Action:	RELEASE WAS SECURED / A CONTRACTOR WAS HIRED TO MITIGATE
State Agency on Scene:	Not reported
State Agency Report Number:	Not reported
Other Agency Notified:	Not reported
Weather Conditions:	Not reported
Air Temperature:	Not reported
Wind Speed:	Not reported
Wind Direction:	Not reported
Water Supply Contaminated:	U
Sheen Size:	Not reported
Sheen Color:	Not reported
Direction of Sheen Travel:	Not reported
Sheen Odor Description:	Not reported
Wave Condition:	Not reported
Current Speed:	Not reported
Current Direction:	Not reported
Water Temperature:	Not reported
Track Close Dir:	Not reported
Empl Fatality:	Not reported
Pass Fatality:	Not reported
Community Impact:	N
Wind Speed Unit:	Not reported
Employee Injuries:	Not reported
Passenger Injuries:	Not reported
Occupant Fatality:	Not reported
Current Speed Unit:	Not reported
Road Closure Units:	Not reported
Track CLosure Units:	Not reported
Sheen Size Units:	Not reported
Additional Info:	WILL NOTIFY:OES
State Agency Notified:	Not reported
Federal Agency Notified:	Not reported
nearest River Mile Marker:	Not reported
Sheen Size Length:	Not reported
Sheen Size Length Units:	Not reported

(Continued) **97406611**

Sheen Size Width:	Not reported
Sheen Size Width Units:	Not reported
Offshore:	N
Duration Unit:	Not reported
Release Rate Unit:	Not reported
Release Rate Rate:	Not reported
Passengers Transferred:	UNK

Calls:

NRC Report #:	406611
Site ID:	97406611
Date Time Received:	1997-10-07 20:07:56
Date Time Complete:	1997-10-07 20:11:07
Call Type:	INC
Responsible Company:	CALIFORNIA STATE UNIVERSI
Responsible Org Type:	PRIVATE ENTERPRISE
Responsible City:	FULLERTON
Responsible State:	CA
Responsible Zip:	Not reported
On Behalf:	Not reported
Source:	UNAVAILABLE

Material Involved:

NRC Report #:	406611
Chris Code:	OTF
Case Number:	Not reported
UN Number:	Not reported
Amount of Material:	100
Unit of Measure:	POUND(S)
Name of Material:	OIL, MISC: TRANSFORMER (5 PPM PCB)
If Reached Water:	YES
Amount in Water:	0
Unit of Measure Reach Water:	NONE

A18 **CA CHMIRS** **S123299223**
Target Property **800 NORTH STATE COLLEGE BOULEVARD** **N/A**
FULLERTON, CA

Site 18 of 35 in cluster A

Actual: 250 ft.

CHMIRS:

OES Incident Number:	18-6081
OES notification:	09/08/2018
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported

(Continued) **S123299223**

Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	No
Waterway:	None
Spill Site:	School
Cleanup By:	Unknown
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Type:	VAPOR
Measure:	N/A
Other:	Not reported
Date/Time:	1330
Year:	2018
Agency:	California State University Fullerton
Incident Date:	09/08/2018
Admin Agency:	Fullerton Fire Department
Amount:	Not reported
Contained:	Stopped,Not contained
Site Type:	None
E Date:	Not reported
Substance:	Gas, chlorine
Quantity Released:	Unknown
Unknown:	Not reported
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	30
Number of Injuries:	1
Number of Fatalities:	Not reported
#1 Pipeline:	No
#2 Pipeline:	No
#3 Pipeline:	No
#1 Vessel >= 300 Tons:	No
#2 Vessel >= 300 Tons:	No
#3 Vessel >= 300 Tons:	No
Evacs:	Yes
Injuries:	Yes
Fatals:	No
Comments:	Not reported
Description:	A chlorine emission(s) event occurred at the Dan Blackhall Building, room #143 (laboratory). The incident may have occurred when a bacteria mixture was placed inside of an autoclave which

(Continued) **S123299223**

contained a bleach residue. The bacteria and bleach mixture resulted in a chlorine emissions release. Upon smelling chlorine, students activated the facility's alarm. The university police department, local fire department, and the Huntington Beach Hazardous Materials Division responded to the scene. An estimated 30 personnel were evacuated from the building. The room was ventilated and the autoclave tagged as unserviceable. One student was evacuated to a nearby medical facility. The current status of the student was not known. After a safety inspection was completed, the staff and students were allowed to re-enter the building.

A19 Target Property | **CALIFORNIA STATE UNIVERSITY FULLERTON**
800 NORTH STATE COLLEGE BLVD
FULLERTON, CA 92834 | **NY MANIFEST** | **S117561473**
N/A

Site 19 of 35 in cluster A

Actual: 250 ft.

NY MANIFEST:

Country:	USA
EPA ID:	CAT080031461
Facility Status:	Not reported
Location Address 1:	ENVIRONMENTAL SAFETY & HEALTH
Code:	BP
Location Address 2:	Not reported
Total Tanks:	Not reported
Location City:	N STATE BLVD-FULLERTON
Location State:	CA
Location Zip:	92634
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	CAT080031461
Mailing Name:	CALIFORNIA STATE UNIVERSITY FULLERTON
Mailing Contact:	CALIFORNIA STATE UNIVERSITY FULLERTON
Mailing Address 1:	ENVIRON HEALTH & SAFETY-800 N
Mailing Address 2:	Not reported
Mailing City:	STATE BLVD-FULLERTON
Mailing State:	CA
Mailing Zip:	92634
Mailing Zip 4:	Not reported
Mailing Country:	USA
Mailing Phone:	7147732124

NY MANIFEST:

Document ID:	NYB1623672
Manifest Status:	K
seq:	Not reported
Year:	1990
Trans1 State ID:	CABDTECH1
Trans2 State ID:	10219PNY
Generator Ship Date:	09/12/1990
Trans1 Recv Date:	09/12/1990
Trans2 Recv Date:	09/21/1990
TSD Site Recv Date:	10/01/1990

CALIFORNIA STATE UNIVERSITY FULLERTON (Continued) **S117561473**

Part A Recv Date:	10/05/1990
Part B Recv Date:	10/26/1990
Generator EPA ID:	CAT080031461
Trans1 EPA ID:	NYD980769947
Trans2 EPA ID:	Not reported
TSDF ID 1:	NYD000632372
TSDF ID 2:	Not reported
Manifest Tracking Number:	Not reported
Import Indicator:	Not reported
Export Indicator:	Not reported
Discr Quantity Indicator:	Not reported
Discr Type Indicator:	Not reported
Discr Residue Indicator:	Not reported
Discr Partial Reject Indicator:	Not reported
Discr Full Reject Indicator:	Not reported
Manifest Ref Number:	Not reported
Alt Facility RCRA ID:	Not reported
Alt Facility Sign Date:	Not reported
MGMT Method Type Code:	Not reported
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	00040
Units:	P - Pounds
Number of Containers:	001
Container Type:	CM - Metal boxes, cases, roll-offs
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	100
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	00050
Units:	P - Pounds
Number of Containers:	002
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	100
Waste Code:	D003 - NON-LISTED REACTIVE WASTES
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Waste Code:	Not reported
Quantity:	00025
Units:	P - Pounds
Number of Containers:	001
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	100

CALIFORNIA STATE UNIVERSITY FULLERTON (Continued) **S117561473**

Click this hyperlink while viewing on your computer to access
-1 additional NY MANIFEST: record(s) in the EDR Site Report.

A20 Target Property **CALIFORNIA STATE UNIVERSITY FULLERTON PROMENADE PR**
800 NORTH STATE COLLEGE BLVD
FULLERTON, CA CA

CA CIWQS **S123404709**
CA CERS **N/A**

Site 20 of 35 in cluster A

Actual: 250 ft.

CIWQS:

Agency:	California State University Fullerton
Agency Address:	800 North State College Blvd, Fullerton, CA 92831
Place/Project Type:	Construction - Commercial
SIC/NAICS:	Not reported
Region:	4
Program:	CONSTW
Regulatory Measure Status:	Active
Regulatory Measure Type:	Storm water construction
Order Number:	2009-0009-DWQ
WDID:	4 19C385994
NPDES Number:	CAS000002
Adoption Date:	Not reported
Effective Date:	02/11/2019
Termination Date:	Not reported
Expiration/Review Date:	Not reported
Design Flow:	Not reported
Major/Minor:	Not reported
Complexity:	Not reported
TTWQ:	Not reported
Enforcement Actions within 5 years:	0
Violations within 5 years:	0
Latitude:	34.0087
Longitude:	-117.8999

CERS TANKS:

Site ID:	517479
CERS ID:	869226
Site Name:	CALIFORNIA STATE UNIVERSITY FULLERTON PROMENADE PROMENADE LANDSCAPE IMPROVEMENTS
CERS Description:	Construction Storm Water

Affiliation:

Affiliation Type Desc:	Owner/Operator
Entity Name:	California State University Fullerton
Entity Title:	Operator
Affiliation Address:	800 North State College Blvd
Affiliation City:	Fullerton
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92831
Affiliation Phone:	Not reported

A21 Target Property | **CSUF CHILDRENS CENTER**
800 N STATE COLLEGE BLVD
FULLERTON, CA 92834 | **CA CIWQS** | **S121632355**
N/A

Site 21 of 35 in cluster A

Actual: 250 ft.

CIWQS:

Agency:	California State University Fullerton
Agency Address:	800 N State College Blvd, Fullerton, CA 92834
Place/Project Type:	Construction - Other: Institutional, Utility
SIC/NAICS:	Not reported
Region:	8
Program:	CONSTW
Regulatory Measure Status:	Terminated
Regulatory Measure Type:	Storm water construction
Order Number:	2009-0009-DWQ
WDID:	8 30C356763
NPDES Number:	CAS000002
Adoption Date:	Not reported
Effective Date:	11/18/2009
Termination Date:	10/05/2011
Expiration/Review Date:	Not reported
Design Flow:	Not reported
Major/Minor:	Not reported
Complexity:	Not reported
TTWQ:	Not reported
Enforcement Actions within 5 years:	0
Violations within 5 years:	0
Latitude:	Not reported
Longitude:	Not reported

A22 Target Property | **800 NORTH STATE COLLEGE**
FULLERTON, CA | **ERNS** | **2001569688**
N/A

Site 22 of 35 in cluster A

Actual: 250 ft.

Incident Commons:

NRC Report #:	569688
Description of Incident:	THE CALLER REPORTS A SPILL OF MERCURY IN MCCARTHY HALL. EQUIPMENT (MONOMETER) WAS BEING TRANSPORTED ON THE BALCONY OF THE BUILDING WHEN IT WAS DROPPED AND MATERIAL WAS RELEASED.
Type of Incident:	FIXED
Incident Cause:	UNKNOWN
Incident Date Time:	2001-06-14 15:00:00
Incident DTG:	OCCURRED
Incident Location:	MCCARTHY HALL
Loaction Address:	800 NORTH STATE COLLEGE
Location Street 1:	Not reported
Location Street 2:	Not reported
Location Nearest City:	FULLERTON
Location State:	CA
Location County:	ORANGE
Location Zip:	Not reported
Distance From City:	Not reported
Distance Units:	Not reported
Direction From City:	Not reported
Lat Deg:	Not reported
Lat Min:	Not reported
Lat Sec:	Not reported

(Continued) **2001569688**

Lat Quad:	Not reported
Long Deg:	Not reported
Long Min:	Not reported
Long Sec:	Not reported
Long Quad:	Not reported
Location Section:	Not reported
Location Township:	Not reported
Location range:	Not reported
Potential Range:	Not reported

Incidents:

NRC Report #:	569688
Aircraft Type:	UNKNOWN
Aircraft Model:	Not reported
Aircraft ID:	Not reported
Aircraft Fuel Capacity:	Not reported
Aircraft Fuel Capacity Units:	Not reported
Aircraft Fuel on Board:	Not reported
Aircraft Fuel on Board Units:	Not reported
Aircraft Spot Number:	Not reported
Aircraft Hanger:	Not reported
Aircraft Runway Number:	Not reported
Road Mile Marker:	Not reported
Building ID:	Not reported
Type of Fixed Object:	OTHER
Power Generating Facility:	N
Generating Capacity:	Not reported
Type of Fuel:	Not reported
NPDES:	Not reported
NPDES Compliance:	U
Pipeline Type:	Not reported
DOT Regulated:	U
Pipeline Above Ground:	ABOVE
Exposed Underwater:	N
Pipeline Covered:	U
Railroad Hotline:	Not reported
Grade Crossing:	N
Location Subdivision:	Not reported
Railroad Milepost:	Not reported
Type Vehicle Involved:	Not reported
Crossing Device Type:	Not reported
Device Operational:	Y
DOT Crossing Number:	Not reported
Brake Failure:	N
Description of Tank:	Not reported
Tank Above Ground:	ABOVE
Transportable Container:	U
Tank Regulated:	U
Tank Regulated By:	Not reported
Tank ID:	Not reported
Capacity of Tank:	Not reported
Capacity of Tank Units:	Not reported
Actual Amount:	Not reported
Actual Amount Units:	Not reported
Platform Rig Name:	Not reported
Platform Letter:	Not reported
Location Area ID:	Not reported
Location Block ID:	Not reported

(Continued) **2001569688**

OCSG Number:	Not reported
OCSP Number:	Not reported
State Lease Number:	Not reported
Pier Dock Number:	Not reported
Berth Slip Number:	Not reported
Continuous Release Type:	Not reported
Initial Continuous Release No:	Not reported
Continuous Release Permit:	Not reported
Allision:	N
Type of Structure:	Not reported
Structure Name:	Not reported
Structure Operational:	U
Airbag Deployed:	Not reported
Date Tiem Normal Service:	Not reported
Service Disruption Time:	Not reported
Service Disruption Units:	Not reported
Transit Bus Flag:	Not reported
CR Begin Date:	Not reported
CR End Date:	Not reported
CR Change Date:	Not reported
FBI Contact:	Not reported
FBI Contact Date Time:	Not reported
Sub Part C Testing Req:	XXX
Conductor Testing:	Not reported
Engineer Testing:	Not reported
Trainman Testing:	Not reported
Yard Foreman Testing:	Not reported
RCL Operator Testing:	Not reported
Brakeman Testing:	Not reported
Train Dispatcher Testing:	Not reported
Signalman Testing:	Not reported
Other Employee Testing:	Not reported
Unknown Testing:	Not reported
Passenger Handling:	Not reported
Passenger Route:	XXX
Passenger Delay:	XXX

Incident Details:

NRC Report #:	569688
Fire Involved:	N
Fire Extinguished:	U
Any Evacuations:	N
Number Evacuated:	Not reported
Who Evacuated:	Not reported
Radius of Evacuation:	Not reported
Any Injuries:	N
Number Injured:	Not reported
Number Hospitalized:	Not reported
Any Fatalities:	N
Number Fatalities:	Not reported
Any Damages:	N
Damage Amount:	Not reported
Air Corridor Closed:	N
Air Corridor Desc:	Not reported
Air Closure Time:	Not reported
Waterway Closed:	N
Waterway Desc:	Not reported

(Continued) **2001569688**

Waterway Closure Time:	Not reported
Road Closed:	N
Road Desc:	Not reported
Road Closure Time:	Not reported
Closure Direction:	Not reported
Major Artery:	N
Track Closed:	N
Track Desc:	Not reported
Track Closure Time:	Not reported
Media Interest:	NONE
Medium Desc:	LAND
Additional Medium Info:	FLOOR > ATMOSPHERE
Body of Water:	Not reported
Tributary of:	Not reported
Release Secured:	Y
Estimated Duration of Release:	Not reported
Release rate:	Not reported
Desc Remedial Action:	A HAZARDOUS WASTE CONTRACTOR (NORTH STATE ENVIRONMENTAL, RIVERSIDE, CA (909) 875-9288)WAS CALLED OUT FOR CLEANUP. THE SPILL HAS BEEN CLEANED UP, EQUIPMENT HAS BEEN ISOLATED AND WILL BE DE-CONTAMINATED ON 16JUN2001.
State Agency on Scene:	Not reported
State Agency Report Number:	NO REPORT #
Other Agency Notified:	Not reported
Weather Conditions:	UNKNOWN
Air Temperature:	Not reported
Wind Speed:	Not reported
Wind Direction:	Not reported
Water Supply Contaminated:	U
Sheen Size:	Not reported
Sheen Color:	Not reported
Direction of Sheen Travel:	Not reported
Sheen Odor Description:	Not reported
Wave Condition:	Not reported
Current Speed:	Not reported
Current Direction:	Not reported
Water Temperature:	Not reported
Track Close Dir:	Not reported
Empl Fatality:	Not reported
Pass Fatality:	Not reported
Community Impact:	N
Wind Speed Unit:	Not reported
Employee Injuries:	Not reported
Passenger Injuries:	Not reported
Occupant Fatality:	Not reported
Current Speed Unit:	Not reported
Road Closure Units:	Not reported
Track CLosure Units:	Not reported
Sheen Size Units:	Not reported
Additional Info:	AS A PRECAUTION THE 4 PEOPLE INVOLVED IN THE INCIDENT WILL BE SENT FOR MEDICAL TESTING FOR EXPOSURE. THE CALLER WILL CONTACT OES.
State Agency Notified:	Not reported
Federal Agency Notified:	Not reported
nearest River Mile Marker:	Not reported
Sheen Size Length:	Not reported
Sheen Size Length Units:	Not reported
Sheen Size Width:	Not reported

(Continued) **2001569688**

Sheen Size Width Units:	Not reported
Offshore:	N
Duration Unit:	Not reported
Release Rate Unit:	Not reported
Release Rate Rate:	Not reported
Passengers Transferred:	UNK

Calls:

NRC Report #:	569688
Site ID:	2001569688
Date Time Received:	2001-06-15 16:55:23
Date Time Complete:	2001-06-15 17:07:22
Call Type:	INC
Responsible Company:	CALIFORNIA STATE UNIVERSI
Responsible Org Type:	PRIVATE ENTERPRISE
Responsible City:	FULLERTON
Responsible State:	CA
Responsible Zip:	Not reported
On Behalf:	Y
Source:	TELEPHONE

Material Involved:

NRC Report #:	569688
Chris Code:	MCR
Case Number:	007439-97-6
UN Number:	Not reported
Amount of Material:	0.29999999999999999
Unit of Measure:	LITER(S)
Name of Material:	MERCURY
If Reached Water:	NO
Amount in Water:	Not reported
Unit of Measure Reach Water:	Not reported

A23
Target Property
Actual: 250 ft.

CALIFORNIA STATE UNIVERSITY FULLERTON
800 N STATE COLLEGE BLVD
FULLERTON, CA 92831

CA CERS HAZ WASTE
CA CERS TANKS
CA HAZNET
CA CERS

S113180209
N/A

Site 23 of 35 in cluster A

CERS HAZ WASTE:

Site ID:	15492
CERS ID:	10153211
CERS Description:	Hazardous Waste Generator

Violations:

Site ID:	15492
Site Name:	CALIFORNIA STATE UNIVERSITY FULLERTON
Violation Date:	08-22-2018
Citation:	22 CCR 15 66265.173 - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.173
Violation Description:	Failure to meet the following container management requirements: (a) A container holding hazardous waste must always be closed during storage, except when it is necessary to add or remove waste. (b) A container holding hazardous waste must not be opened, handled, or stored in a manner which may rupture the container or cause it to leak.

CALIFORNIA STATE UNIVERSITY FULLERTON (Continued) **S113180209**

Violation Notes:	Returned to compliance on 08/22/2018. Observed one 55 gallon drum of oil with water to be open while not in use. Container was closed during course of inspection. Violation corrected on site.
Violation Division:	Orange County Environmental Health
Violation Program:	HWLQG
Violation Source:	CERS

Site ID:	15492
Site Name:	CALIFORNIA STATE UNIVERSITY FULLERTON
Violation Date:	08-29-2017
Citation:	22 CCR 15 66265.173 - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.173
Violation Description:	Failure to meet the following container management requirements: (a) A container holding hazardous waste must always be closed during storage, except when it is necessary to add or remove waste. (b) A container holding hazardous waste must not be opened, handled, or stored in a manner which may rupture the container or cause it to leak.
Violation Notes:	Returned to compliance on 08/22/2018. -Three paint waste containers has a funnel in the bung hole that did not seal completely while not in use. -Maintain waste paint containers to be closed and sealed to prevent a release while not actively adding or removing waste.
Violation Division:	Orange County Environmental Health
Violation Program:	HWLQG
Violation Source:	CERS

Site ID:	15492
Site Name:	CALIFORNIA STATE UNIVERSITY FULLERTON
Violation Date:	04-19-2017
Citation:	HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description:	"Failure to amend the SPCC Plan within 6 months: 1. When the facility has had a change in design, construction, operation, or maintenance which affects the facility?s discharge potential. AND/OR 2. To include more effective proven technology at the time of the 5-year SPCC Plan review and evaluation."
Violation Notes:	Returned to compliance on 05/09/2017. -The amount of oil stored on-site and where they are stored needs to be updated in the SPCC document. -Update the SPCC document and send to this agency with the transformers and mobile refuelers.
Violation Division:	Orange County Environmental Health
Violation Program:	APSA
Violation Source:	CERS

Site ID:	15492
Site Name:	CALIFORNIA STATE UNIVERSITY FULLERTON
Violation Date:	10-01-2015
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes:	Returned to compliance on 10/30/2015.
Violation Division:	Fullerton City Fire Department
Violation Program:	HMRRP
Violation Source:	CERS

CALIFORNIA STATE UNIVERSITY FULLERTON (Continued) **S113180209**

Site ID:	15492
Site Name:	CALIFORNIA STATE UNIVERSITY FULLERTON
Violation Date:	11-20-2018
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes:	Returned to compliance on 01/15/2019. Inventory required updating because of changes to waste oil container, water treatment chemicals, quantity and location of LPG and quantity of sodium hypochlorite.
Violation Division:	Fullerton City Fire Department
Violation Program:	HMRRP
Violation Source:	CERS

Site ID:	15492
Site Name:	CALIFORNIA STATE UNIVERSITY FULLERTON
Violation Date:	09-17-2013
Citation:	HSC 6.95 25504(a) - California Health and Safety Code, Chapter 6.95, Section(s) 25504(a)
Violation Description:	Failure to complete and/or submit hazardous material inventory forms for all reportable hazardous materials on site.
Violation Notes:	Not reported
Violation Division:	Orange County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS

Site ID:	15492
Site Name:	CALIFORNIA STATE UNIVERSITY FULLERTON
Violation Date:	08-29-2017
Citation:	22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description:	Failure to properly label hazardous waste accumulation containers with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes:	Returned to compliance on 08/22/2018. -Lithium bromide waste, nitric acid waste were not properly labeled, the containers did not have the word hazardous waste, generator information, content composition, physical state hazardous properties, and accumulation start date. There was a waste drum that the waste contents were labeled as "Dr Li's Drum" this is not an adequate description of the waste contents inside the drum. -Properly label waste containers within 30 days.
Violation Division:	Orange County Environmental Health
Violation Program:	HWLQG
Violation Source:	CERS

Site ID:	15492
Site Name:	CALIFORNIA STATE UNIVERSITY FULLERTON
Violation Date:	08-29-2017
Citation:	22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description:	Failure to properly label hazardous waste accumulation containers with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes:	Returned to compliance on 08/22/2018. -Dr. Li's Drum (waste water with

CALIFORNIA STATE UNIVERSITY FULLERTON (Continued) **S113180209**

hexanes), a satellite drum, is missing the dated filled. The latex paint waste is labeled as hazardous waste, but Pearl stated that she is going to manage the waste as an Excluded Recyclable Material (ERM). -Please properly label Dr. Li's drum and the latex paint, within 30 days.

Violation Division: Orange County Environmental Health
Violation Program: HWLQG
Violation Source: CERS

Site ID: 15492
Site Name: CALIFORNIA STATE UNIVERSITY FULLERTON
Violation Date: 11-09-2017
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes: Returned to compliance on 12/08/2017. Kerosene present in disposable quantities and needed to be added to disclosure.
Violation Division: Fullerton City Fire Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 15492
Site Name: CALIFORNIA STATE UNIVERSITY FULLERTON
Violation Date: 04-07-2009
Citation: HSC 6.67 Multiple Sections - California Health and Safety Code, Chapter 6.67, Section(s) Multiple Sections
Violation Description: RCRA Large Quantity Generator Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 04/17/2009.
Violation Division: Orange County Environmental Health
Violation Program: HWLQG
Violation Source: CERS

Site ID: 15492
Site Name: CALIFORNIA STATE UNIVERSITY FULLERTON
Violation Date: 08-22-2018
Citation: HSC 6.5 25201(a) - California Health and Safety Code, Chapter 6.5, Section(s) 25201(a)
Violation Description: Failure to obtain a permit or grant of interim status to accumulate hazardous waste longer than 90 days.
Violation Notes: Returned to compliance on 09/14/2018. The following hazardous waste containers were observed with accumulation start dates over the allowed accumulation time limits: -one 55 gallon drum of water with oil, container had been used for satellite storage, initial accumulation start date 08/17/2017 -one 55 gallon drum of contaminated sharps, accumulation start date 05/04/2018, container does not meet satellite storage requirements Have waste hauled by a licensed hazardous waste hauler immediately and provide a copy of the manifest to this agency within 30 days.
Violation Division: Orange County Environmental Health
Violation Program: HWLQG
Violation Source: CERS

Site ID: 15492
Site Name: CALIFORNIA STATE UNIVERSITY FULLERTON

CALIFORNIA STATE UNIVERSITY FULLERTON (Continued) **S113180209**

Violation Date: 08-29-2017
Citation: HSC 6.5 25201(a) - California Health and Safety Code, Chapter 6.5, Section(s) 25201(a)
Violation Description: Failure to obtain a permit or grant of interim status to accumulate hazardous waste longer than 90 days.
Violation Notes: Returned to compliance on 09/28/2017. -Oily water waste, filters with metals waste, and waste latex paint containers have been stored on-site longer than their accumulation time frame. latex paint waste was a satellite drum dated 03/04/2016. filters with metals were dated 04/21/2017 and oily water waste 01/26/2017, both were in the 90 day storage area. -Have hazardous waste hauled immediately. Formal enforcement may occur.
Violation Division: Orange County Environmental Health
Violation Program: HWLQG
Violation Source: CERS

Site ID: 15492
Site Name: CALIFORNIA STATE UNIVERSITY FULLERTON
Violation Date: 06-23-2016
Citation: 22 CCR 12 66262.11 - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.11
Violation Description: Failure to determine if the waste generated is a hazardous waste.
Violation Notes: Returned to compliance on 07/28/2016. During the on site inspection, I reviewed two municipal trash dumpsters located outside the science building. In one dumpster I found a (1) gallon, plastic bottle of "concrete release". The bottle had about 1/2 cup of thick, viscous liquid inside. CSUF staff felt it was from a contract company retained to do concrete repairs on site. I also found in the second dumpster, (1) cardboard box. In the box were numerous "lab samples" used by the geology lab. The samples appeared to be soil samples mixed with unknown liquid inside test tubes and plastic containers (similar to syringe holders). It was unknown if these samples contained just water or another liquid that may be hazardous (ie. solvents). Make sure to conduct a HW determination before any building supplies or lab samples are disposed ot the municipal trash. Please have this HW determination conducted on the two samples (concrete release and lab samples). If they are non hazardous, they may be thrown to the [Truncated]
Violation Division: Orange County Environmental Health
Violation Program: HWLQG
Violation Source: CERS

Site ID: 15492
Site Name: CALIFORNIA STATE UNIVERSITY FULLERTON
Violation Date: 05-07-2009
Citation: HSC 6.67 Multiple Sections - California Health and Safety Code, Chapter 6.67, Section(s) Multiple Sections
Violation Description: RCRA Large Quantity Generator Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 05/21/2009.
Violation Division: Orange County Environmental Health
Violation Program: HWLQG
Violation Source: CERS

Site ID: 15492
Site Name: CALIFORNIA STATE UNIVERSITY FULLERTON
Violation Date: 08-22-2018
Citation: 22 CCR 15 66265.16 - California Code of Regulations, Title 22, Chapter

CALIFORNIA STATE UNIVERSITY FULLERTON (Continued) **S113180209**

	15, Section(s) 66265.16
Violation Description:	Failure to provide employees with hazardous waste training program of class room instructions or on-the-job training within the first six months after the date of their employment or assignment to a facility, or to a new position at a facility and annually thereafter. Training records on current personnel shall be kept until closure of the facility and for former employees the record shall be kept for at least three years from the date the employee last worked at the facility. The records shall include the following: the job title for each position at the facility related to hazardous waste management, and the name of the employee filling each job; a written job description for each position, duties of facility personnel assigned to each position, and a written description of the type and amount of both introductory and continuing training that will be given to each person filling a position.
Violation Notes:	Returned to compliance on 10/01/2018. Employee safety training is being conducted on an annual basis. Training plan is missing the following: -Written job description for each position; description to include requisite skill, education and duties of facility personnel -Written description of the type and amount of both introductory and continuing education given to personnel Update training plan to include required information and provide a copy to this agency.
Violation Division:	Orange County Environmental Health
Violation Program:	HWLQG
Violation Source:	CERS
Site ID:	15492
Site Name:	CALIFORNIA STATE UNIVERSITY FULLERTON
Violation Date:	04-17-2014
Citation:	HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description:	Failure to comply with all of the following requirements: 1. Failure to conduct inspections and tests in accordance with written procedures that you or a certifying engineer have developed for the facility. 2. Failure to sign written procedures and/or a record of inspections and/or customary business records by the appropriate supervisor or inspector. 3. Failure to keep written procedures and/or a record of inspections and/or customary business records with the plan. AND 4. Failure to maintain written procedures and/or a record of inspections and/or customary business records for three years.
Violation Notes:	Returned to compliance on 05/19/2014. The tanks subject to this SPCC (fuel AST, waste oil tank, emergency generators, hydraulic elevators if they meet SPCC requirements) need to be inspected at least monthly for leaks. The facility currently inspects them annually. Amend your SPCC to make these inspections monthly and begin monthly inspections. Submit the latest logs to this Agency in order to abate this violation.
Violation Division:	Orange County Environmental Health
Violation Program:	APSA
Violation Source:	CERS
Site ID:	15492
Site Name:	CALIFORNIA STATE UNIVERSITY FULLERTON
Violation Date:	04-17-2014
Citation:	HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description:	Failure to provide training regarding: 1. The operation and

CALIFORNIA STATE UNIVERSITY FULLERTON (Continued) **S113180209**

	maintenance of equipment to prevent discharges. 2. Discharge procedure protocols. 3. Applicable pollution control laws, rules, and regulations. 4. General facility operations. AND 5. The contents of the SPCC Plan.
Violation Notes:	Returned to compliance on 05/19/2014. The facility currently trains the oil handling staff annually via the HAZWOPER training. However, the training does not have any SPCC specific training. Please amend your annual training to include SPCC specific topics.
Violation Division:	Orange County Environmental Health
Violation Program:	APSA
Violation Source:	CERS
Site ID:	15492
Site Name:	CALIFORNIA STATE UNIVERSITY FULLERTON
Violation Date:	06-23-2016
Citation:	22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description:	Failure to properly label hazardous waste accumulation containers with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes:	Returned to compliance on 07/28/2016. All the HW drums/containers are properly labeled. However, the "Universal Waste (UW)", light tubes and capacitors are being stored properly but have no UW labels. Please make sure that all your UW is properly labeled. UW labels were supplied with this report.
Violation Division:	Orange County Environmental Health
Violation Program:	HWLQG
Violation Source:	CERS
Site ID:	15492
Site Name:	CALIFORNIA STATE UNIVERSITY FULLERTON
Violation Date:	10-06-2016
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes:	Returned to compliance on 02/27/2017. Various changes/updates needed to chemical inventory. Specifics noted on inspection form. See general inspection notes regarding RTC date.
Violation Division:	Fullerton City Fire Department
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	15492
Site Name:	CALIFORNIA STATE UNIVERSITY FULLERTON
Violation Date:	04-17-2014
Citation:	HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description:	Failure to adequately discuss facility tank car and tank truck loading/unloading rack within the plan.
Violation Notes:	Returned to compliance on 05/19/2014. The SPCC lists "spill kits/absorbent" as the leak prevention method for the "general containment" at the "loading area" near the fuel AST. During the inspection, there were (4) 55 gallon drums of absorbent but they were not located near the AST nor were they accessible. They were covered

CALIFORNIA STATE UNIVERSITY FULLERTON (Continued) **S113180209**

	with wood and metal debris. Begin maintaining these spill kits near the AST and ready for use in order to meet spill prevention requirements.
Violation Division:	Orange County Environmental Health
Violation Program:	APSA
Violation Source:	CERS
Site ID:	15492
Site Name:	CALIFORNIA STATE UNIVERSITY FULLERTON
Violation Date:	04-17-2014
Citation:	HSC 6.67 Multiple - California Health and Safety Code, Chapter 6.67, Section(s) Multiple
Violation Description:	APSA Program - Administration/Documentation - General
Violation Notes:	Returned to compliance on 05/19/2014. The current SPCC lists 55 gallon drums in the auto shop and does not list the hydraulic elevators. Please amend the SPCC to properly reflect the facility.
Violation Division:	Orange County Environmental Health
Violation Program:	APSA
Violation Source:	CERS
Site ID:	15492
Site Name:	CALIFORNIA STATE UNIVERSITY FULLERTON
Violation Date:	08-29-2017
Citation:	22 CCR 15 66265.16 - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.16
Violation Description:	Failure to provide employees with hazardous waste training within the first six months after the date of their employment or assignment to a facility, or to a new position at a facility and annually thereafter. Training records on current personnel shall be kept until closure of the facility and for former employees the record shall be kept for at least three years from the date the employee last worked at the facility.
Violation Notes:	Returned to compliance on 10/02/2017. -Documented employee training documentation was not available for review. -Maintain documented employee training to contain job title, job description, and necessary training, and training completed. Please have this documentation available for review within 30 days.
Violation Division:	Orange County Environmental Health
Violation Program:	HWLQG
Violation Source:	CERS

Evaluation:

Eval General Type:	Other/Unknown
Eval Date:	03-27-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Called CSUF to set the SPCC inspection date. Set for 4-17-14/0900.
Eval Division:	Orange County Environmental Health
Eval Program:	APSA
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	04-17-2014
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	On site for the annual RCRA Large Quantity Generator (LQG) Hazardous Waste (HW) inspection. Permission to inspect granted by CSUF/Plotkin

CALIFORNIA STATE UNIVERSITY FULLERTON (Continued) **S113180209**

and Mc Quinn. Federal EPA ID # is correct and accurate. Facility is a RCRA LQG, manifesting about 20 tons of HW per year. Biennial report to USEPA is on site and current (2014). Formal, written employee training program was reviewed. OK. Plotkin is the designated trainer. Employee training records are on site (computer). Current and complete. All HW drums/totes/tanks were properly labeled with HW labels and accumulation dates. No spills or leaks. The trash cans were inspected and contained only municipal trash. HW storage areas were clean, no releases. All HW was within the 90 days storage time. All aerosol cans are stored on site and drained via puncturing on the same 90 days cycle. No TP required. There was only one (1) HW storage tank. A 100 gallon waste oil tank. This tank is non RCRA and does not need a [Truncated]

Eval Division: Orange County Environmental Health
Eval Program: HWLQG
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 04-21-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Verify new HW page is in EC.
Eval Division: Orange County Environmental Health
Eval Program: HWLQG
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-08-2012
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Orange County Environmental Health
Eval Program: HWLQG
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 06-16-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: E-mail CSUF/Boelter to schedule the LQG inspection. E-mailed back, Leo Lopez is the contact. He will call me ASAP.
Eval Division: Orange County Environmental Health
Eval Program: HWLQG
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-23-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: On site for the triennial Hazardous Waste (HW) inspection. Permission to inspect granted by CSUF/Lopez and Wilcox. The campus is a Large Quantity Generator (LQG) of university maintenance and lab wastes. Wastes are being hauled away on a 90 day cycle. Manifests were reviewed and OK. All HW drums/containers were properly labeled with beginning accumulation dates. Universal Wastes (UW) were stored properly but did not have UW labels. See violations. Labels supplied with this report. HW management/storage area is in a locked area.

CALIFORNIA STATE UNIVERSITY FULLERTON (Continued) **S113180209**

Individual labs use the satellite accumulation exemption. CSUF staff review all the teaching labs daily for HW pickup. Research labs call staff for pick ups. All HW is then taken to the HW management area for hazard categorizing, drum storage and disposal. SB14 OK. Biennial report OK. Aisle space in the HW area is OK. Daily/weekly HW storage area logs OK. HMBEP on file with the FFD. Emergency response plan [Truncated]

Eval Division: Orange County Environmental Health
Eval Program: HWLQG
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 07-28-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Received an E-mail from CSUF/Wilcox regarding the violations listed on the 6-23-16 inspection. Violation # I300 (Hazardous Waste/HW determination): CSUF did a literature review and determined that the concrete release was not hazardous and the samples were of salt water and soil = not hazardous. Abate this violation. Violation # I562 (improper label for Universal Waste/UW): CSUF has placed proper UW labels on the boxes. Abate this violation. No outstanding violations.
Eval Division: Orange County Environmental Health
Eval Program: HWLQG
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 08-18-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: CSUF/Mc Quinn had an oil/water HW question. Advised him to call OCSD regarding any sewer discharge issues and that the in line oil/water filter is not subject to TP.
Eval Division: Orange County Environmental Health
Eval Program: HWLQG
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-22-2018
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Accompanied on initial inspection by Allan Cabudol of Orange County Environmental Health (OCEH). Photographs were taken on this date of hazardous waste storage areas. Returned on 08/28/18 with Susan Berg of OCEH. Photographs were taken on this date of hazardous waste storage areas. Additional note regarding accumulation time compliance: The following containers of waste were observed during 08/28/2018 walk through: -one 55 gallon drum of acetone, ethyl acetate with an accumulation start date of 05/30/2018 -one 55 gallon drum of aqueous lead nitrate with an accumulation start date of 05/30/2018 Per Mike, facility has a hazardous waste pick-up scheduled for September 14th. On site re-inspection by this agency to occur in approximately 30 days.
Eval Division: Orange County Environmental Health
Eval Program: HWLQG
Eval Source: CERS

CALIFORNIA STATE UNIVERSITY FULLERTON (Continued) **S113180209**

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	01-30-2013
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Orange County Environmental Health
Eval Program:	HWLQG
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	04-07-2009
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Inspector Name: Orange CUPA
Eval Division:	Orange County Environmental Health
Eval Program:	HWLQG
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	04-16-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Review prior violations for inspection.
Eval Division:	Orange County Environmental Health
Eval Program:	HWLQG
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	04-21-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	HW page review.
Eval Division:	Orange County Environmental Health
Eval Program:	HWLQG
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	05-07-2009
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Inspector Name: Orange CUPA
Eval Division:	Orange County Environmental Health
Eval Program:	HWLQG
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	03-27-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Called CSUF to set the HW inspection date. Set for 4-17-14/0900.
Eval Division:	Orange County Environmental Health
Eval Program:	HWLQG
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	04-19-2017
Violations Found:	Yes

CALIFORNIA STATE UNIVERSITY FULLERTON (Continued) **S113180209**

Eval Type:	Routine done by local agency
Eval Notes:	On site for routine aboveground petroleum storage tank (APST) inspection. The inspection was conducted with Robert Denman, environmental compliance specialist. The facility has petroleum storage above 10,000 gallons, there are some petroleum storage that needs to be added to their plan. All of the tanks and containers have secondary containment. The spill prevention countermeasure and control (SPCC) plan is dated 06/29/2015 and has not been reviewed since then, but the contact information and the transformers need to be added and updated. Employee training records for employees that conduct oil handling activities were available for review. Monthly inspection log was available for review.
Eval Division:	Orange County Environmental Health
Eval Program:	APSA
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	05-09-2017
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	SPCC plan has been revised and reviewed. Violation I249 has been corrected.
Eval Division:	Orange County Environmental Health
Eval Program:	APSA
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	05-19-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Received via E-mail from CSUF the following information: 1) Updated SPCC to include all elevator hydraulic lifts. 2) Photo to verify that the spill kits are now located next to the fuel AST. 3) Updated training program to include annual training on SPCC requirements. 4) Monthly SPCC inspection logs. Abate violations # AT02, AT13, AT32 and AT36. No outstanding violations.
Eval Division:	Orange County Environmental Health
Eval Program:	APSA
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	08-13-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Called CSUF/McQuinn RE: heat exchanger questions. He was busy and will call back later.
Eval Division:	Orange County Environmental Health
Eval Program:	APSA
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	09-12-2017
Violations Found:	Yes
Eval Type:	Other, not routine, done by local agency
Eval Notes:	INSPECTOR COMMENTS Spoke with Pearl about the accumulation violations that she received for the filters with metals, Dr. Li?s drum, and the satellite accumulation waste paint. Pearl stated that the filters with

CALIFORNIA STATE UNIVERSITY FULLERTON (Continued) **S113180209**

metals have been tested and are not hazardous, the test results have been received and based upon the results, of the sample which was taken, the filters appear to be not hazardous waste. For the satellite accumulation waste latex paint, she said that this drum was miss labeled and they handle their waste latex paint as an excluded recyclable material. They have the paint recycled through a paint recycling program. For the Dr. Li?s drum, which was over the 90 day accumulation time, Pearl stated that this drum was once a satellite drum which had a one year start date of 01/26/2017 and they recently moved it into the hazardous waste storage area once it was full in August, they just did not put the full date on the drum. Based upon the information received [Truncated]

Eval Division: Orange County Environmental Health
Eval Program: HWLQG
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 10-02-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: This agency has received a copy of their documented employee training program. Violation I126 has been corrected.
Eval Division: Orange County Environmental Health
Eval Program: HWLQG
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-09-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Fullerton City Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-20-2018
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Fullerton City Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 12-10-2018
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: The following documentation has been received and reviewed by this agency: -Emergency Treatment of Hazardous Waste Notification Facility conducted emergency treatment of hazardous waste on 11/14/2018. Per email from Michael Cox/CSUF, facility obtained a conditional permit from the Department of Toxic Substances Control (DTSC) to perform treatment.
Eval Division: Orange County Environmental Health
Eval Program: HWLQG
Eval Source: CERS

CALIFORNIA STATE UNIVERSITY FULLERTON (Continued) **S113180209**

Eval General Type:	Other/Unknown
Eval Date:	06-10-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	File review of "outstanding violations" showed all 4 violations listed on the 4-17-14 inspection as "outstanding". File review showed that all violations were abated on 5-19-14 however, I failed to close them in the computer. Administratively closed all 4 violations with the 5-19-14 abatement date.
Eval Division:	Orange County Environmental Health
Eval Program:	APSA
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	06-17-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Set HW inspection with CSUF/Leo Lopez for 6-23-16/1300.
Eval Division:	Orange County Environmental Health
Eval Program:	HWLQG
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	08-11-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	CSUF/McGuinn E-mailed anSPCC question regarding an on site "heat exchanger". Called him back asking to call me to discuss.
Eval Division:	Orange County Environmental Health
Eval Program:	APSA
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	09-17-2013
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	CHEMICAL INVENTORY IS INCOMPLETE OR NEEDS TO BE UPDATED
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	10-06-2016
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Due to CUPA data transition from Esubmit to CERS, facility is unable to update disclosure at this time. All necessary revisions to the inventory and Business Emergency Plan shall be submitted by 3/1/17
Eval Division:	Fullerton City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	10-10-2018
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	INSPECTOR COMMENTS: On site for hazardous waste re-inspection, consent

CALIFORNIA STATE UNIVERSITY FULLERTON (Continued) **S113180209**

to enter and conduct inspection activities was provided by Michael Wilcox, Hazardous Materials Specialist. Accompanied on inspection by Susan Berg of Orange County Environmental Health and Leo Lopez of CSUF Environmental Health and Safety. Walked throughout the facility and observed the hazardous waste storage in the Visual Arts Building and the 90 Day Storage area. Observed the following: -multiple bags of lab waste to be missing "Hazardous Waste" and site address -multiple flammable cabinets to be missing the site address Photograph of completed label provided later in the day, violation I562 has been corrected. Employee training records and plan have been provided to this agency; violation I126 has been corrected. Manifest for the hauling of hazardous waste observed on site over the 90 day accumulation time limit have been provided to this agency. Violation I125 has been corrected. [Truncated]

Eval Division: Orange County Environmental Health
Eval Program: HWLQG
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-17-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: On site for the triennial Spill Prevention Control and Countermeasure (SPCC) inspection. Permission to inspect granted by CSUF/Plotkin and Mc Quinn. The facility had the SPCC on site and available for review. Tier I SPCC. It was updated on 4-16-14. The SPCC list has the following regulated tanks/containers: (1) 2,000 gallon, aboveground storage tank (AST), diesel/gasoline, double walled AST with flapper valve OFP. (20) back up generators located throughout the campus. All generators are double walled and contain diesel. 55 gallon drums located in the auto shop. The unloading area near the AST had spill kits that were unaccessible. See violations. The facility had annual inspection logs. Inspection logs must be monthly at a minimum. See violations. The training program does not specifically address SPCC issues. See violations. The site has 2 hydraulic elevator lifts that were not listed on the SPCC and an unknown number of office hydraulic [Truncated]
Eval Division: Orange County Environmental Health
Eval Program: APSA
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 06-23-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: While on site for the Hazardous Waste inspection, it was discussed that the campus had a hydraulic oil release on 3-21-16 from a leaking oil line to an elevator. We discussed that the OES notification was properly made and to make sure to list the leak on the SPCC in order to be in compliance. Formal review will be made during the next scheduled SPCC inspection.
Eval Division: Orange County Environmental Health
Eval Program: APSA
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-29-2017

CALIFORNIA STATE UNIVERSITY FULLERTON (Continued) **S113180209**

Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	INSPECTOR COMMENTS On site for a routine hazardous waste inspection. Consent to inspect and take any necessary photos was given by Mike Wilcox and Pearl Boelter. Walked throughout the facility. Observed hazardous waste storage areas. Facility has adequate aisle space in their 90 days storage area. Satellite containers in the visual arts building (3 containers) were not maintained closed while not in use. Spent Nitric acid containers in the silk screen studio were not properly labeled, the two 5 gallon containers did not have the word hazardous waste, generator information, content composition, physical state hazardous properties, and accumulation start date. There was a 55 gallon drum of lithium bromide waste in the 90 storage area that was not labeled properly, the drum did not have the word hazardous waste, generator information, content composition, physical state hazardous properties, and accumulation start date. There were two containers which have been [Truncated]
Eval Division:	Orange County Environmental Health
Eval Program:	HWLQG
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	10-01-2015
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Disclosure submitted via esubmit.
Eval Division:	Fullerton City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	10-24-2017
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	CERS - Facility information was declined due to having checked the CalARP box.
Eval Division:	Orange County Environmental Health
Eval Program:	HWLQG
Eval Source:	CERS

Enforcement Action:

Site ID:	15492
Site Name:	CALIFORNIA STATE UNIVERSITY FULLERTON
Site Address:	800 N STATE COLLEGE BLVD
Site City:	FULLERTON
Site Zip:	92831
Enf Action Date:	04-07-2009
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	Orange County Environmental Health
Enf Action Program:	HWLQG
Enf Action Source:	CERS

Site ID:	15492
Site Name:	CALIFORNIA STATE UNIVERSITY FULLERTON
Site Address:	800 N STATE COLLEGE BLVD

CALIFORNIA STATE UNIVERSITY FULLERTON (Continued) **S113180209**

Site City:	FULLERTON
Site Zip:	92831
Enf Action Date:	05-07-2009
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	Orange County Environmental Health
Enf Action Program:	HWLQG
Enf Action Source:	CERS

Site ID:	15492
Site Name:	CALIFORNIA STATE UNIVERSITY FULLERTON
Site Address:	800 N STATE COLLEGE BLVD
Site City:	FULLERTON
Site Zip:	92831
Enf Action Date:	08-31-2018
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	Orange County Environmental Health
Enf Action Program:	HWLQG
Enf Action Source:	CERS

Site ID:	15492
Site Name:	CALIFORNIA STATE UNIVERSITY FULLERTON
Site Address:	800 N STATE COLLEGE BLVD
Site City:	FULLERTON
Site Zip:	92831
Enf Action Date:	09-17-2013
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	Orange County Environmental Health
Enf Action Program:	HMRRP
Enf Action Source:	CERS

Coordinates:

Site ID:	15492
Facility Name:	CALIFORNIA STATE UNIVERSITY FULLERTON
Env Int Type Code:	HWG
Program ID:	10153211
Coord Name:	Not reported
Ref Point Type Desc:	Center of a facility or station.
Latitude:	33.877920
Longitude:	-117.889530

Affiliation:

Affiliation Type Desc:	CUPA District
Entity Name:	Orange County Env Health
Entity Title:	Not reported
Affiliation Address:	1241 East Dyer RoadSuite 120
Affiliation City:	Santa Ana
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92705-5611
Affiliation Phone:	(714) 433-6000

CALIFORNIA STATE UNIVERSITY FULLERTON (Continued) **S113180209**

Affiliation Type Desc:	Document Preparer
Entity Name:	Robert Denman
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Identification Signer
Entity Name:	Robert Denman
Entity Title:	Environmental Compliance Specialist
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Environmental Contact
Entity Name:	PATRICK M MCQUINN
Entity Title:	ENVIRONMENTAL COMPLIANC
Affiliation Address:	800 STATE COLLEGE BLVD T-1475
Affiliation City:	FULLERTON
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Operator
Entity Name:	California State University, Fullerton
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(657) 278-2011

Affiliation Type Desc:	Parent Corporation
Entity Name:	California State University, Fullerton
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Environmental Contact
Entity Name:	Robert Denman
Entity Title:	Not reported
Affiliation Address:	800 N. State College Blvd.
Affiliation City:	Fullerton
Affiliation State:	CA
Affiliation Country:	Not reported

CALIFORNIA STATE UNIVERSITY FULLERTON (Continued) **S113180209**

Affiliation Zip:	92831
Affiliation Phone:	Not reported
Affiliation Type Desc:	Legal Owner
Entity Name:	STATE OF CALIFORNIA
Entity Title:	Not reported
Affiliation Address:	400 P
Affiliation City:	Sacramento
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	95814
Affiliation Phone:	(562) 951-4000
Affiliation Type Desc:	Property Owner
Entity Name:	State of California
Entity Title:	Not reported
Affiliation Address:	400 P
Affiliation City:	Sacramento
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	95814
Affiliation Phone:	(562) 951-4000
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	P.O. Box 34080
Affiliation City:	Fullerton
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92834-9480
Affiliation Phone:	Not reported

Site ID:	15492
CERS ID:	10153211
CERS Description:	RCRA LQ HW Generator

Violations:

Site ID:	15492
Site Name:	CALIFORNIA STATE UNIVERSITY FULLERTON
Violation Date:	08-22-2018
Citation:	22 CCR 15 66265.173 - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.173
Violation Description:	Failure to meet the following container management requirements: (a) A container holding hazardous waste must always be closed during storage, except when it is necessary to add or remove waste. (b) A container holding hazardous waste must not be opened, handled, or stored in a manner which may rupture the container or cause it to leak.
Violation Notes:	Returned to compliance on 08/22/2018. Observed one 55 gallon drum of oil with water to be open while not in use. Container was closed during course of inspection. Violation corrected on site.
Violation Division:	Orange County Environmental Health
Violation Program:	HWLQG
Violation Source:	CERS
Site ID:	15492

CALIFORNIA STATE UNIVERSITY FULLERTON (Continued) **S113180209**

Site Name:	CALIFORNIA STATE UNIVERSITY FULLERTON
Violation Date:	08-29-2017
Citation:	22 CCR 15 66265.173 - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.173
Violation Description:	Failure to meet the following container management requirements: (a) A container holding hazardous waste must always be closed during storage, except when it is necessary to add or remove waste. (b) A container holding hazardous waste must not be opened, handled, or stored in a manner which may rupture the container or cause it to leak.
Violation Notes:	Returned to compliance on 08/22/2018. -Three paint waste containers has a funnel in the bung hole that did not seal completely while not in use. -Maintain waste paint containers to be closed and sealed to prevent a release while not actively adding or removing waste.
Violation Division:	Orange County Environmental Health
Violation Program:	HWLQG
Violation Source:	CERS

Site ID:	15492
Site Name:	CALIFORNIA STATE UNIVERSITY FULLERTON
Violation Date:	04-19-2017
Citation:	HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description:	"Failure to amend the SPCC Plan within 6 months: 1. When the facility has had a change in design, construction, operation, or maintenance which affects the facility?s discharge potential. AND/OR 2. To include more effective proven technology at the time of the 5-year SPCC Plan review and evaluation."
Violation Notes:	Returned to compliance on 05/09/2017. -The amount of oil stored on-site and where they are stored needs to be updated in the SPCC document. -Update the SPCC document and send to this agency with the transformers and mobile refuelers.
Violation Division:	Orange County Environmental Health
Violation Program:	APSA
Violation Source:	CERS

Site ID:	15492
Site Name:	CALIFORNIA STATE UNIVERSITY FULLERTON
Violation Date:	10-01-2015
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes:	Returned to compliance on 10/30/2015.
Violation Division:	Fullerton City Fire Department
Violation Program:	HMRRP
Violation Source:	CERS

Site ID:	15492
Site Name:	CALIFORNIA STATE UNIVERSITY FULLERTON
Violation Date:	11-20-2018
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.

CALIFORNIA STATE UNIVERSITY FULLERTON (Continued) **S113180209**

Violation Notes:	Returned to compliance on 01/15/2019. Inventory required updating because of changes to waste oil container, water treatment chemicals, quantity and location of LPG and quantity of sodium hypochlorite.
Violation Division:	Fullerton City Fire Department
Violation Program:	HMRRP
Violation Source:	CERS

Site ID:	15492
Site Name:	CALIFORNIA STATE UNIVERSITY FULLERTON
Violation Date:	09-17-2013
Citation:	HSC 6.95 25504(a) - California Health and Safety Code, Chapter 6.95, Section(s) 25504(a)
Violation Description:	Failure to complete and/or submit hazardous material inventory forms for all reportable hazardous materials on site.
Violation Notes:	Not reported
Violation Division:	Orange County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS

Site ID:	15492
Site Name:	CALIFORNIA STATE UNIVERSITY FULLERTON
Violation Date:	08-29-2017
Citation:	22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description:	Failure to properly label hazardous waste accumulation containers with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes:	Returned to compliance on 08/22/2018. -Lithium bromide waste, nitric acid waste were not properly labeled, the containers did not have the word hazardous waste, generator information, content composition, physical state hazardous properties, and accumulation start date. There was a waste drum that the waste contents were labeled as "Dr Li's Drum" this is not an adequate description of the waste contents inside the drum. -Properly label waste containers within 30 days.
Violation Division:	Orange County Environmental Health
Violation Program:	HWLQG
Violation Source:	CERS

Site ID:	15492
Site Name:	CALIFORNIA STATE UNIVERSITY FULLERTON
Violation Date:	08-29-2017
Citation:	22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description:	Failure to properly label hazardous waste accumulation containers with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes:	Returned to compliance on 08/22/2018. -Dr. Li's Drum (waste water with hexanes), a satellite drum, is missing the dated filled. The latex paint waste is labeled as hazardous waste, but Pearl stated that she is going to manage the waste as an Excluded Recyclable Material (ERM). -Please properly label Dr. Li's drum and the latex paint, within 30 days.
Violation Division:	Orange County Environmental Health
Violation Program:	HWLQG
Violation Source:	CERS

CALIFORNIA STATE UNIVERSITY FULLERTON (Continued) **S113180209**

Site ID:	15492
Site Name:	CALIFORNIA STATE UNIVERSITY FULLERTON
Violation Date:	11-09-2017
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes:	Returned to compliance on 12/08/2017. Kerosene present in disposable quantities and needed to be added to disclosure.
Violation Division:	Fullerton City Fire Department
Violation Program:	HMRRP
Violation Source:	CERS

Site ID:	15492
Site Name:	CALIFORNIA STATE UNIVERSITY FULLERTON
Violation Date:	04-07-2009
Citation:	HSC 6.67 Multiple Sections - California Health and Safety Code, Chapter 6.67, Section(s) Multiple Sections
Violation Description:	RCRA Large Quantity Generator Program - Administration/Documentation - General
Violation Notes:	Returned to compliance on 04/17/2009.
Violation Division:	Orange County Environmental Health
Violation Program:	HWLQG
Violation Source:	CERS

Site ID:	15492
Site Name:	CALIFORNIA STATE UNIVERSITY FULLERTON
Violation Date:	08-22-2018
Citation:	HSC 6.5 25201(a) - California Health and Safety Code, Chapter 6.5, Section(s) 25201(a)
Violation Description:	Failure to obtain a permit or grant of interim status to accumulate hazardous waste longer than 90 days.
Violation Notes:	Returned to compliance on 09/14/2018. The following hazardous waste containers were observed with accumulation start dates over the allowed accumulation time limits: -one 55 gallon drum of water with oil, container had been used for satellite storage, initial accumulation start date 08/17/2017 -one 55 gallon drum of contaminated sharps, accumulation start date 05/04/2018, container does not meet satellite storage requirements Have waste hauled by a licensed hazardous waste hauler immediately and provide a copy of the manifest to this agency within 30 days.
Violation Division:	Orange County Environmental Health
Violation Program:	HWLQG
Violation Source:	CERS

Site ID:	15492
Site Name:	CALIFORNIA STATE UNIVERSITY FULLERTON
Violation Date:	08-29-2017
Citation:	HSC 6.5 25201(a) - California Health and Safety Code, Chapter 6.5, Section(s) 25201(a)
Violation Description:	Failure to obtain a permit or grant of interim status to accumulate hazardous waste longer than 90 days.
Violation Notes:	Returned to compliance on 09/28/2017. -Oily water waste, filters with metals waste, and waste latex paint containers have been stored on-site longer than their accumulation time frame. latex paint waste was a satellite drum dated 03/04/2016. filters with metals were dated

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04/21/2017 and oily water waste 01/26/2017, both were in the 90 day storage area. -Have hazardous waste hauled immediately. Formal enforcement may occur.

Violation Division: Orange County Environmental Health
Violation Program: HWLQG
Violation Source: CERS

Site ID: 15492
Site Name: CALIFORNIA STATE UNIVERSITY FULLERTON
Violation Date: 06-23-2016
Citation: 22 CCR 12 66262.11 - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.11
Violation Description: Failure to determine if the waste generated is a hazardous waste.
Violation Notes: Returned to compliance on 07/28/2016. During the on site inspection, I reviewed two municipal trash dumpsters located outside the science building. In one dumpster I found a (1) gallon, plastic bottle of "concrete release". The bottle had about 1/2 cup of thick, viscous liquid inside. CSUF staff felt it was from a contract company retained to do concrete repairs on site. I also found in the second dumpster, (1) cardboard box. In the box were numerous "lab samples" used by the geology lab. The samples appeared to be soil samples mixed with unknown liquid inside test tubes and plastic containers (similar to syringe holders). It was unknown if these samples contained just water or another liquid that may be hazardous (ie. solvents). Make sure to conduct a HW determination before any building supplies or lab samples are disposed ot the municipal trash. Please have this HW determination conducted on the two samples (concrete release and lab samples). If they are non hazardous, they may be thrown to the [Truncated]
Violation Division: Orange County Environmental Health
Violation Program: HWLQG
Violation Source: CERS

Site ID: 15492
Site Name: CALIFORNIA STATE UNIVERSITY FULLERTON
Violation Date: 05-07-2009
Citation: HSC 6.67 Multiple Sections - California Health and Safety Code, Chapter 6.67, Section(s) Multiple Sections
Violation Description: RCRA Large Quantity Generator Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 05/21/2009.
Violation Division: Orange County Environmental Health
Violation Program: HWLQG
Violation Source: CERS

Site ID: 15492
Site Name: CALIFORNIA STATE UNIVERSITY FULLERTON
Violation Date: 08-22-2018
Citation: 22 CCR 15 66265.16 - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.16
Violation Description: Failure to provide employees with hazardous waste training program of class room instructions or on-the-job training within the first six months after the date of their employment or assignment to a facility, or to a new position at a facility and annually thereafter. Training records on current personnel shall be kept until closure of the facility and for former employees the record shall be kept for at least three years from the date the employee last worked at the facility. The records shall include the following: the job title for

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	each position at the facility related to hazardous waste management, and the name of the employee filling each job; a written job description for each position, duties of facility personnel assigned to each position, and a written description of the type and amount of both introductory and continuing training that will be given to each person filling a position.
Violation Notes:	Returned to compliance on 10/01/2018. Employee safety training is being conducted on an annual basis. Training plan is missing the following: -Written job description for each position; description to include requisite skill, education and duties of facility personnel -Written description of the type and amount of both introductory and continuing education given to personnel Update training plan to include required information and provide a copy to this agency.
Violation Division:	Orange County Environmental Health
Violation Program:	HWLQG
Violation Source:	CERS
Site ID:	15492
Site Name:	CALIFORNIA STATE UNIVERSITY FULLERTON
Violation Date:	04-17-2014
Citation:	HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description:	Failure to comply with all of the following requirements: 1. Failure to conduct inspections and tests in accordance with written procedures that you or a certifying engineer have developed for the facility. 2. Failure to sign written procedures and/or a record of inspections and/or customary business records by the appropriate supervisor or inspector. 3. Failure to keep written procedures and/or a record of inspections and/or customary business records with the plan. AND 4. Failure to maintain written procedures and/or a record of inspections and/or customary business records for three years.
Violation Notes:	Returned to compliance on 05/19/2014. The tanks subject to this SPCC (fuel AST, waste oil tank, emergency generators, hydraulic elevators if they meet SPCC requirements) need to be inspected at least monthly for leaks. The facility currently inspects them annually. Amend your SPCC to make these inspections monthly and begin monthly inspections. Submit the latest logs to this Agency in order to abate this violation.
Violation Division:	Orange County Environmental Health
Violation Program:	APSA
Violation Source:	CERS
Site ID:	15492
Site Name:	CALIFORNIA STATE UNIVERSITY FULLERTON
Violation Date:	04-17-2014
Citation:	HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description:	Failure to provide training regarding: 1. The operation and maintenance of equipment to prevent discharges. 2. Discharge procedure protocols. 3. Applicable pollution control laws, rules, and regulations. 4. General facility operations. AND 5. The contents of the SPCC Plan.
Violation Notes:	Returned to compliance on 05/19/2014. The facility currently trains the oil handling staff annually via the HAZWOPER training. However, the training does not have any SPCC specific training. Please amend your annual training to include SPCC specific topics.
Violation Division:	Orange County Environmental Health

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Violation Program:	APSA
Violation Source:	CERS
Site ID:	15492
Site Name:	CALIFORNIA STATE UNIVERSITY FULLERTON
Violation Date:	06-23-2016
Citation:	22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description:	Failure to properly label hazardous waste accumulation containers with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes:	Returned to compliance on 07/28/2016. All the HW drums/containers are properly labeled. However, the "Universal Waste (UW)", light tubes and capacitors are being stored properly but have no UW labels. Please make sure that all your UW is properly labeled. UW labels were supplied with this report.
Violation Division:	Orange County Environmental Health
Violation Program:	HWLQG
Violation Source:	CERS
Site ID:	15492
Site Name:	CALIFORNIA STATE UNIVERSITY FULLERTON
Violation Date:	10-06-2016
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes:	Returned to compliance on 02/27/2017. Various changes/updates needed to chemical inventory. Specifics noted on inspection form. See general inspection notes regarding RTC date.
Violation Division:	Fullerton City Fire Department
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	15492
Site Name:	CALIFORNIA STATE UNIVERSITY FULLERTON
Violation Date:	04-17-2014
Citation:	HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description:	Failure to adequately discuss facility tank car and tank truck loading/unloading rack within the plan.
Violation Notes:	Returned to compliance on 05/19/2014. The SPCC lists "spill kits/absorbent" as the leak prevention method for the "general containment" at the "loading area" near the fuel AST. During the inspection, there were (4) 55 gallon drums of absorbent but they were not located near the AST nor were they accessible. They were covered with wood and metal debris. Begin maintaining these spill kits near the AST and ready for use in order to meet spill prevention requirements.
Violation Division:	Orange County Environmental Health
Violation Program:	APSA
Violation Source:	CERS
Site ID:	15492
Site Name:	CALIFORNIA STATE UNIVERSITY FULLERTON

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Violation Date:	04-17-2014
Citation:	HSC 6.67 Multiple - California Health and Safety Code, Chapter 6.67, Section(s) Multiple
Violation Description:	APSA Program - Administration/Documentation - General
Violation Notes:	Returned to compliance on 05/19/2014. The current SPCC lists 55 gallon drums in the auto shop and does not list the hydraulic elevators. Please amend the SPCC to properly reflect the facility.
Violation Division:	Orange County Environmental Health
Violation Program:	APSA
Violation Source:	CERS
Site ID:	15492
Site Name:	CALIFORNIA STATE UNIVERSITY FULLERTON
Violation Date:	08-29-2017
Citation:	22 CCR 15 66265.16 - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.16
Violation Description:	Failure to provide employees with hazardous waste training within the first six months after the date of their employment or assignment to a facility, or to a new position at a facility and annually thereafter. Training records on current personnel shall be kept until closure of the facility and for former employees the record shall be kept for at least three years from the date the employee last worked at the facility.
Violation Notes:	Returned to compliance on 10/02/2017. -Documented employee training documentation was not available for review. -Maintain documented employee training to contain job title, job description, and necessary training, and training completed. Please have this documentation available for review within 30 days.
Violation Division:	Orange County Environmental Health
Violation Program:	HWLQG
Violation Source:	CERS

Evaluation:

Eval General Type:	Other/Unknown
Eval Date:	03-27-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Called CSUF to set the SPCC inspection date. Set for 4-17-14/0900.
Eval Division:	Orange County Environmental Health
Eval Program:	APSA
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	04-17-2014
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	On site for the annual RCRA Large Quantity Generator (LQG) Hazardous Waste (HW) inspection. Permission to inspect granted by CSUF/Plotkin and Mc Quinn. Federal EPA ID # is correct and accurate. Facility is a RCRA LQG, manifesting about 20 tons of HW per year. Biennial report to USEPA is on site and current (2014). Formal, written employee training program was reviewed. OK. Plotkin is the designated trainer. Employee training records are on site (computer). Current and complete. All HW drums/totes/tanks were properly labeled with HW labels and accumulation dates. No spills or leaks. The trash cans were inspected and contained only municipal trash. HW storage areas were clean, no releases. All HW was within the 90 days storage time. All aerosol cans

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	are stored on site and drained via puncturing on the same 90 days cycle. No TP required. There was only one (1) HW storage tank. A 100 gallon waste oil tank. This tank is non RCRA and does not need a [Truncated]
Eval Division:	Orange County Environmental Health
Eval Program:	HWLQG
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	04-21-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Verify new HW page is in EC.
Eval Division:	Orange County Environmental Health
Eval Program:	HWLQG
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	06-08-2012
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Orange County Environmental Health
Eval Program:	HWLQG
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	06-16-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	E-mail CSUF/Boelter to schedule the LQG inspection. E-mailed back, Leo Lopez is the contact. He will call me ASAP.
Eval Division:	Orange County Environmental Health
Eval Program:	HWLQG
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	06-23-2016
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	On site for the triennial Hazardous Waste (HW) inspection. Permission to inspect granted by CSUF/Lopez and Wilcox. The campus is a Large Quantity Generator (LQG) of university maintenance and lab wastes. Wastes are being hauled away on a 90 day cycle. Manifests were reviewed and OK. All HW drums/containers were properly labeled with beginning accumulation dates. Universal Wastes (UW) were stored properly but did not have UW labels. See violations. Labels supplied with this report. HW management/storage area is in a locked area. Individual labs use the satellite accumulation exemption. CSUF staff review all the teaching labs daily for HW pickup. Research labs call staff for pick ups. All HW is then taken to the HW management area for hazard categorizing, drum storage and disposal. SB14 OK. Biennial report OK. Aisle space in the HW area is OK. Daily/weekly HW storage area logs OK. HMBEP on file with the FFD. Emergency response plan [Truncated]
Eval Division:	Orange County Environmental Health
Eval Program:	HWLQG

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Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	07-28-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Received an E-mail from CSUF/Wilcox regarding the violations listed on the 6-23-16 inspection. Violation # I300 (Hazardous Waste/HW determination): CSUF did a literature review and determined that the concrete release was not hazardous and the samples were of salt water and soil = not hazardous. Abate this violation. Violation # I562 (improper label for Universal Waste/UW): CSUF has placed proper UW labels on the boxes. Abate this violation. No outstanding violations.
Eval Division:	Orange County Environmental Health
Eval Program:	HWLQG
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	08-18-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	CSUF/Mc Quinn had an oil/water HW question. Advised him to call OCSD regarding any sewer discharge issues and that the in line oil/water filter is not subject to TP.
Eval Division:	Orange County Environmental Health
Eval Program:	HWLQG
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-22-2018
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Accompanied on initial inspection by Allan Cabudol of Orange County Environmental Health (OCEH). Photographs were taken on this date of hazardous waste storage areas. Returned on 08/28/18 with Susan Berg of OCEH. Photographs were taken on this date of hazardous waste storage areas. Additional note regarding accumulation time compliance: The following containers of waste were observed during 08/28/2018 walk through: -one 55 gallon drum of acetone, ethyl acetate with an accumulation start date of 05/30/2018 -one 55 gallon drum of aqueous lead nitrate with an accumulation start date of 05/30/2018 Per Mike, facility has a hazardous waste pick-up scheduled for September 14th. On site re-inspection by this agency to occur in approximately 30 days.
Eval Division:	Orange County Environmental Health
Eval Program:	HWLQG
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	01-30-2013
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Orange County Environmental Health
Eval Program:	HWLQG
Eval Source:	CERS

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Eval General Type:	Compliance Evaluation Inspection
Eval Date:	04-07-2009
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Inspector Name: Orange CUPA
Eval Division:	Orange County Environmental Health
Eval Program:	HWLQG
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	04-16-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Review prior violations for inspection.
Eval Division:	Orange County Environmental Health
Eval Program:	HWLQG
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	04-21-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	HW page review.
Eval Division:	Orange County Environmental Health
Eval Program:	HWLQG
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	05-07-2009
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Inspector Name: Orange CUPA
Eval Division:	Orange County Environmental Health
Eval Program:	HWLQG
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	03-27-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Called CSUF to set the HW inspection date. Set for 4-17-14/0900.
Eval Division:	Orange County Environmental Health
Eval Program:	HWLQG
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	04-19-2017
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	On site for routine aboveground petroleum storage tank (APST) inspection. The inspection was conducted with Robert Denman, environmental compliance specialist. The facility has petroleum storage above 10,000 gallons, there are some petroleum storage that needs to be added to their plan. All of the tanks and containers have secondary containment. The spill prevention countermeasure and control (SPCC) plan is dated 06/29/2015 and has not been reviewed since then, but the contact information and the transformers need to be added and

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updated. Employee training records for employees that conduct oil handling activities were available for review. Monthly inspection log was available for review.

Eval Division: Orange County Environmental Health
Eval Program: APSA
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 05-09-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: SPCC plan has been revised and reviewed. Violation I249 has been corrected.
Eval Division: Orange County Environmental Health
Eval Program: APSA
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 05-19-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Received via E-mail from CSUF the following information: 1) Updated SPCC to include all elevator hydraulic lifts. 2) Photo to verify that the spill kits are now located next to the fuel AST. 3) Updated training program to include annual training on SPCC requirements. 4) Monthly SPCC inspection logs. Abate violations # AT02, AT13, AT32 and AT36. No outstanding violations.
Eval Division: Orange County Environmental Health
Eval Program: APSA
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 08-13-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Called CSUF/McQuinn RE: heat exchanger questions. He was busy and will call back later.
Eval Division: Orange County Environmental Health
Eval Program: APSA
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 09-12-2017
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: INSPECTOR COMMENTS Spoke with Pearl about the accumulation violations that she received for the filters with metals, Dr. Li?s drum, and the satellite accumulation waste paint. Pearl stated that the filters with metals have been tested and are not hazardous, the test results have been received and based upon the results, of the sample which was taken, the filters appear to be not hazardous waste. For the satellite accumulation waste latex paint, she said that this drum was miss labeled and they handle their waste latex paint as an excluded recyclable material. They have the paint recycled through a paint recycling program. For the Dr. Li?s drum, which was over the 90 day accumulation time, Pearl stated that this drum was once a satellite drum which had a one year start date of 01/26/2017 and they recently

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moved it into the hazardous waste storage area once it was full in August, they just did not put the full date on the drum. Based upon the information received [Truncated]

Eval Division: Orange County Environmental Health
Eval Program: HWLQG
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 10-02-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: This agency has received a copy of their documented employee training program. Violation I126 has been corrected.
Eval Division: Orange County Environmental Health
Eval Program: HWLQG
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-09-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Fullerton City Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-20-2018
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Fullerton City Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 12-10-2018
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: The following documentation has been received and reviewed by this agency: -Emergency Treatment of Hazardous Waste Notification Facility conducted emergency treatment of hazardous waste on 11/14/2018. Per email from Michael Cox/CSUF, facility obtained a conditional permit from the Department of Toxic Substances Control (DTSC) to perform treatment.
Eval Division: Orange County Environmental Health
Eval Program: HWLQG
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 06-10-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: File review of "outstanding violations" showed all 4 violations listed on the 4-17-14 inspection as "outstanding". File review showed that all violations were abated on 5-19-14 however, I failed to close them in the computer. Administratively closed all 4 violations with the

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	5-19-14 abatement date.
Eval Division:	Orange County Environmental Health
Eval Program:	APSA
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	06-17-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Set HW inspection with CSUF/Leo Lopez for 6-23-16/1300.
Eval Division:	Orange County Environmental Health
Eval Program:	HWLQG
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	08-11-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	CSUF/McGuinn E-mailed anSPCC question regarding an on site "heat exchanger". Called him back asking to call me to discuss.
Eval Division:	Orange County Environmental Health
Eval Program:	APSA
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	09-17-2013
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	CHEMICAL INVENTORY IS INCOMPLETE OR NEEDS TO BE UPDATED
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	10-06-2016
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Due to CUPA data transition from Esubmit to CERS, facility is unable to update disclosure at this time. All necessary revisions to the inventory and Business Emergency Plan shall be submitted by 3/1/17
Eval Division:	Fullerton City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	10-10-2018
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	INSPECTOR COMMENTS: On site for hazardous waste re-inspection, consent to enter and conduct inspection activities was provided by Michael Wilcox, Hazardous Materials Specialist. Accompanied on inspection by Susan Berg of Orange County Environmental Health and Leo Lopez of CSUF Environmental Health and Safety. Walked throughout the facility and observed the hazardous waste storage in the Visual Arts Building and the 90 Day Storage area. Observed the following: -multiple bags of lab waste to be missing "Hazardous Waste" and site address -multiple flammable cabinets to be missing the site address Photograph of

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completed label provided later in the day, violation I562 has been corrected. Employee training records and plan have been provided to this agency; violation I126 has been corrected. Manifest for the hauling of hazardous waste observed on site over the 90 day accumulation time limit have been provided to this agency. Violation I125 has been corrected. [Truncated]

Eval Division: Orange County Environmental Health
Eval Program: HWLQG
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-17-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: On site for the triennial Spill Prevention Control and Countermeasure (SPCC) inspection. Permission to inspect granted by CSUF/Plotkin and Mc Quinn. The facility had the SPCC on site and available for review. Tier I SPCC. It was updated on 4-16-14. The SPCC list has the following regulated tanks/containers: (1) 2,000 gallon, aboveground storage tank (AST), diesel/gasoline, double walled AST with flapper valve OFP. (20) back up generators located throughout the campus. All generators are double walled and contain diesel. 55 gallon drums located in the auto shop. The unloading area near the AST had spill kits that were unaccessible. See violations. The facility had annual inspection logs. Inspection logs must be monthly at a minimum. See violations. The training program does not specifically address SPCC issues. See violations. The site has 2 hydraulic elevator lifts that were not listed on the SPCC and an unknown number of office hydraulic [Truncated]

Eval Division: Orange County Environmental Health
Eval Program: APSA
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 06-23-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: While on site for the Hazardous Waste inspection, it was discussed that the campus had a hydraulic oil release on 3-21-16 from a leaking oil line to an elevator. We discussed that the OES notification was properly made and to make sure to list the leak on the SPCC in order to be in compliance. Formal review will be made during the next scheduled SPCC inspection.

Eval Division: Orange County Environmental Health
Eval Program: APSA
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-29-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: INSPECTOR COMMENTS On site for a routine hazardous waste inspection. Consent to inspect and take any necessary photos was given by Mike Wilcox and Pearl Boelter. Walked throughout the facility. Observed hazardous waste storage areas. Facility has adequate aisle space in their 90 days storage area. Satellite containers in the visual arts building (3 containers) were not maintained closed while not in use.

CALIFORNIA STATE UNIVERSITY FULLERTON (Continued) **S113180209**

Spent Nitric acid containers in the silk screen studio were not properly labeled, the two 5 gallon containers did not have the word hazardous waste, generator information, content composition, physical state hazardous properties, and accumulation start date. There was a 55 gallon drum of lithium bromide waste in the 90 storage area that was not labeled properly, the drum did not have the word hazardous waste, generator information, content composition, physical state hazardous properties, and accumulation start date. There were two containers which have been [Truncated]

Eval Division: Orange County Environmental Health
Eval Program: HWLQG
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-01-2015
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Disclosure submitted via esubmit.
Eval Division: Fullerton City Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 10-24-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: CERS - Facility information was declined due to having checked the CalARP box.
Eval Division: Orange County Environmental Health
Eval Program: HWLQG
Eval Source: CERS

Enforcement Action:
Site ID: 15492
Site Name: CALIFORNIA STATE UNIVERSITY FULLERTON
Site Address: 800 N STATE COLLEGE BLVD
Site City: FULLERTON
Site Zip: 92831
Enf Action Date: 04-07-2009
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Orange County Environmental Health
Enf Action Program: HWLQG
Enf Action Source: CERS

Site ID: 15492
Site Name: CALIFORNIA STATE UNIVERSITY FULLERTON
Site Address: 800 N STATE COLLEGE BLVD
Site City: FULLERTON
Site Zip: 92831
Enf Action Date: 05-07-2009
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Orange County Environmental Health
Enf Action Program: HWLQG

CALIFORNIA STATE UNIVERSITY FULLERTON (Continued) **S113180209**

Enf Action Source: CERS

Site ID: 15492
Site Name: CALIFORNIA STATE UNIVERSITY FULLERTON
Site Address: 800 N STATE COLLEGE BLVD
Site City: FULLERTON
Site Zip: 92831
Enf Action Date: 08-31-2018
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Orange County Environmental Health
Enf Action Program: HWLQG
Enf Action Source: CERS

Site ID: 15492
Site Name: CALIFORNIA STATE UNIVERSITY FULLERTON
Site Address: 800 N STATE COLLEGE BLVD
Site City: FULLERTON
Site Zip: 92831
Enf Action Date: 09-17-2013
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Orange County Environmental Health
Enf Action Program: HMRRP
Enf Action Source: CERS

Coordinates:
Site ID: 15492
Facility Name: CALIFORNIA STATE UNIVERSITY FULLERTON
Env Int Type Code: HWG
Program ID: 10153211
Coord Name: Not reported
Ref Point Type Desc: Center of a facility or station.
Latitude: 33.877920
Longitude: -117.889530

Affiliation:
Affiliation Type Desc: CUPA District
Entity Name: Orange County Env Health
Entity Title: Not reported
Affiliation Address: 1241 East Dyer RoadSuite 120
Affiliation City: Santa Ana
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92705-5611
Affiliation Phone: (714) 433-6000

Affiliation Type Desc: Document Preparer
Entity Name: Robert Denman
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported

CALIFORNIA STATE UNIVERSITY FULLERTON (Continued) **S113180209**

Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Identification Signer
Entity Name:	Robert Denman
Entity Title:	Environmental Compliance Specialist
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Environmental Contact
Entity Name:	PATRICK M MCQUINN
Entity Title:	ENVIRONMENTAL COMPLIANC
Affiliation Address:	800 STATE COLLEGE BLVD T-1475
Affiliation City:	FULLERTON
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Operator
Entity Name:	California State University, Fullerton
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(657) 278-2011

Affiliation Type Desc:	Parent Corporation
Entity Name:	California State University, Fullerton
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Environmental Contact
Entity Name:	Robert Denman
Entity Title:	Not reported
Affiliation Address:	800 N. State College Blvd.
Affiliation City:	Fullerton
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92831
Affiliation Phone:	Not reported

Affiliation Type Desc:	Legal Owner
Entity Name:	STATE OF CALIFORNIA
Entity Title:	Not reported
Affiliation Address:	400 P

CALIFORNIA STATE UNIVERSITY FULLERTON (Continued) **S113180209**

Affiliation City:	Sacramento
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	95814
Affiliation Phone:	(562) 951-4000
Affiliation Type Desc:	Property Owner
Entity Name:	State of California
Entity Title:	Not reported
Affiliation Address:	400 P
Affiliation City:	Sacramento
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	95814
Affiliation Phone:	(562) 951-4000
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	P.O. Box 34080
Affiliation City:	Fullerton
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92834-9480
Affiliation Phone:	Not reported

CERS TANKS:

Facility Name:	CALIFORNIA STATE UNIVERSITY FULLERTON
Site ID:	15492
CERS ID:	10153211
CERS Description:	Aboveground Petroleum Storage

Violations:

Site ID:	15492
Site Name:	CALIFORNIA STATE UNIVERSITY FULLERTON
Violation Date:	08-22-2018
Citation:	22 CCR 15 66265.173 - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.173
Violation Description:	Failure to meet the following container management requirements: (a) A container holding hazardous waste must always be closed during storage, except when it is necessary to add or remove waste. (b) A container holding hazardous waste must not be opened, handled, or stored in a manner which may rupture the container or cause it to leak.
Violation Notes:	Returned to compliance on 08/22/2018. Observed one 55 gallon drum of oil with water to be open while not in use. Container was closed during course of inspection. Violation corrected on site.
Violation Division:	Orange County Environmental Health
Violation Program:	HWLQG
Violation Source:	CERS
Site ID:	15492
Site Name:	CALIFORNIA STATE UNIVERSITY FULLERTON
Violation Date:	08-29-2017
Citation:	22 CCR 15 66265.173 - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.173

CALIFORNIA STATE UNIVERSITY FULLERTON (Continued) **S113180209**

Violation Description:	Failure to meet the following container management requirements: (a) A container holding hazardous waste must always be closed during storage, except when it is necessary to add or remove waste. (b) A container holding hazardous waste must not be opened, handled, or stored in a manner which may rupture the container or cause it to leak.
Violation Notes:	Returned to compliance on 08/22/2018. -Three paint waste containers has a funnel in the bung hole that did not seal completely while not in use. -Maintain waste paint containers to be closed and sealed to prevent a release while not actively adding or removing waste.
Violation Division:	Orange County Environmental Health
Violation Program:	HWLQG
Violation Source:	CERS
Site ID:	15492
Site Name:	CALIFORNIA STATE UNIVERSITY FULLERTON
Violation Date:	04-19-2017
Citation:	HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description:	"Failure to amend the SPCC Plan within 6 months: 1. When the facility has had a change in design, construction, operation, or maintenance which affects the facility?s discharge potential. AND/OR 2. To include more effective proven technology at the time of the 5-year SPCC Plan review and evaluation."
Violation Notes:	Returned to compliance on 05/09/2017. -The amount of oil stored on-site and where they are stored needs to be updated in the SPCC document. -Update the SPCC document and send to this agency with the transformers and mobile refuelers.
Violation Division:	Orange County Environmental Health
Violation Program:	APSA
Violation Source:	CERS
Site ID:	15492
Site Name:	CALIFORNIA STATE UNIVERSITY FULLERTON
Violation Date:	10-01-2015
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes:	Returned to compliance on 10/30/2015.
Violation Division:	Fullerton City Fire Department
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	15492
Site Name:	CALIFORNIA STATE UNIVERSITY FULLERTON
Violation Date:	11-20-2018
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes:	Returned to compliance on 01/15/2019. Inventory required updating because of changes to waste oil container, water treatment chemicals, quantity and location of LPG and quantity of sodium hypochlorite.
Violation Division:	Fullerton City Fire Department

CALIFORNIA STATE UNIVERSITY FULLERTON (Continued) **S113180209**

Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	15492
Site Name:	CALIFORNIA STATE UNIVERSITY FULLERTON
Violation Date:	09-17-2013
Citation:	HSC 6.95 25504(a) - California Health and Safety Code, Chapter 6.95, Section(s) 25504(a)
Violation Description:	Failure to complete and/or submit hazardous material inventory forms for all reportable hazardous materials on site.
Violation Notes:	Not reported
Violation Division:	Orange County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	15492
Site Name:	CALIFORNIA STATE UNIVERSITY FULLERTON
Violation Date:	08-29-2017
Citation:	22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description:	Failure to properly label hazardous waste accumulation containers with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes:	Returned to compliance on 08/22/2018. -Lithium bromide waste, nitric acid waste were not properly labeled, the containers did not have the word hazardous waste, generator information, content composition, physical state hazardous properties, and accumulation start date. There was a waste drum that the waste contents were labeled as "Dr Li's Drum" this is not an adequate description of the waste contents inside the drum. -Properly label waste containers within 30 days.
Violation Division:	Orange County Environmental Health
Violation Program:	HWLQG
Violation Source:	CERS
Site ID:	15492
Site Name:	CALIFORNIA STATE UNIVERSITY FULLERTON
Violation Date:	08-29-2017
Citation:	22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description:	Failure to properly label hazardous waste accumulation containers with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes:	Returned to compliance on 08/22/2018. -Dr. Li's Drum (waste water with hexanes), a satellite drum, is missing the dated filled. The latex paint waste is labeled as hazardous waste, but Pearl stated that she is going to manage the waste as an Excluded Recyclable Material (ERM). -Please properly label Dr. Li's drum and the latex paint, within 30 days.
Violation Division:	Orange County Environmental Health
Violation Program:	HWLQG
Violation Source:	CERS
Site ID:	15492
Site Name:	CALIFORNIA STATE UNIVERSITY FULLERTON
Violation Date:	11-09-2017

CALIFORNIA STATE UNIVERSITY FULLERTON (Continued) **S113180209**

Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes:	Returned to compliance on 12/08/2017. Kerosene present in disposable quantities and needed to be added to disclosure.
Violation Division:	Fullerton City Fire Department
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	15492
Site Name:	CALIFORNIA STATE UNIVERSITY FULLERTON
Violation Date:	04-07-2009
Citation:	HSC 6.67 Multiple Sections - California Health and Safety Code, Chapter 6.67, Section(s) Multiple Sections
Violation Description:	RCRA Large Quantity Generator Program - Administration/Documentation - General
Violation Notes:	Returned to compliance on 04/17/2009.
Violation Division:	Orange County Environmental Health
Violation Program:	HWLQG
Violation Source:	CERS
Site ID:	15492
Site Name:	CALIFORNIA STATE UNIVERSITY FULLERTON
Violation Date:	08-22-2018
Citation:	HSC 6.5 25201(a) - California Health and Safety Code, Chapter 6.5, Section(s) 25201(a)
Violation Description:	Failure to obtain a permit or grant of interim status to accumulate hazardous waste longer than 90 days.
Violation Notes:	Returned to compliance on 09/14/2018. The following hazardous waste containers were observed with accumulation start dates over the allowed accumulation time limits: -one 55 gallon drum of water with oil, container had been used for satellite storage, initial accumulation start date 08/17/2017 -one 55 gallon drum of contaminated sharps, accumulation start date 05/04/2018, container does not meet satellite storage requirements Have waste hauled by a licensed hazardous waste hauler immediately and provide a copy of the manifest to this agency within 30 days.
Violation Division:	Orange County Environmental Health
Violation Program:	HWLQG
Violation Source:	CERS
Site ID:	15492
Site Name:	CALIFORNIA STATE UNIVERSITY FULLERTON
Violation Date:	08-29-2017
Citation:	HSC 6.5 25201(a) - California Health and Safety Code, Chapter 6.5, Section(s) 25201(a)
Violation Description:	Failure to obtain a permit or grant of interim status to accumulate hazardous waste longer than 90 days.
Violation Notes:	Returned to compliance on 09/28/2017. -Oily water waste, filters with metals waste, and waste latex paint containers have been stored on-site longer than their accumulation time frame. latex paint waste was a satellite drum dated 03/04/2016. filters with metals were dated 04/21/2017 and oily water waste 01/26/2017, both were in the 90 day storage area. -Have hazardous waste hauled immediately. Formal enforcement may occur.

CALIFORNIA STATE UNIVERSITY FULLERTON (Continued) **S113180209**

Violation Division: Orange County Environmental Health
Violation Program: HWLQG
Violation Source: CERS

Site ID: 15492
Site Name: CALIFORNIA STATE UNIVERSITY FULLERTON
Violation Date: 06-23-2016
Citation: 22 CCR 12 66262.11 - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.11
Violation Description: Failure to determine if the waste generated is a hazardous waste.
Violation Notes: Returned to compliance on 07/28/2016. During the on site inspection, I reviewed two municipal trash dumpsters located outside the science building. In one dumpster I found a (1) gallon, plastic bottle of "concrete release". The bottle had about 1/2 cup of thick, viscous liquid inside. CSUF staff felt it was from a contract company retained to do concrete repairs on site. I also found in the second dumpster, (1) cardboard box. In the box were numerous "lab samples" used by the geology lab. The samples appeared to be soil samples mixed with unknown liquid inside test tubes and plastic containers (similar to syringe holders). It was unknown if these samples contained just water or another liquid that may be hazardous (ie. solvents). Make sure to conduct a HW determination before any building supplies or lab samples are disposed ot the municipal trash. Please have this HW determination conducted on the two samples (concrete release and lab samples). If they are non hazardous, they may be thrown to the [Truncated]
Violation Division: Orange County Environmental Health
Violation Program: HWLQG
Violation Source: CERS

Site ID: 15492
Site Name: CALIFORNIA STATE UNIVERSITY FULLERTON
Violation Date: 05-07-2009
Citation: HSC 6.67 Multiple Sections - California Health and Safety Code, Chapter 6.67, Section(s) Multiple Sections
Violation Description: RCRA Large Quantity Generator Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 05/21/2009.
Violation Division: Orange County Environmental Health
Violation Program: HWLQG
Violation Source: CERS

Site ID: 15492
Site Name: CALIFORNIA STATE UNIVERSITY FULLERTON
Violation Date: 08-22-2018
Citation: 22 CCR 15 66265.16 - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.16
Violation Description: Failure to provide employees with hazardous waste training program of class room instructions or on-the-job training within the first six months after the date of their employment or assignment to a facility, or to a new position at a facility and annually thereafter. Training records on current personnel shall be kept until closure of the facility and for former employees the record shall be kept for at least three years from the date the employee last worked at the facility. The records shall include the following: the job title for each position at the facility related to hazardous waste management, and the name of the employee filling each job; a written job description for each position, duties of facility personnel assigned

CALIFORNIA STATE UNIVERSITY FULLERTON (Continued) **S113180209**

	to each position, and a written description of the type and amount of both introductory and continuing training that will be given to each person filling a position.
Violation Notes:	Returned to compliance on 10/01/2018. Employee safety training is being conducted on an annual basis. Training plan is missing the following: -Written job description for each position; description to include requisite skill, education and duties of facility personnel -Written description of the type and amount of both introductory and continuing education given to personnel Update training plan to include required information and provide a copy to this agency.
Violation Division:	Orange County Environmental Health
Violation Program:	HWLQG
Violation Source:	CERS
Site ID:	15492
Site Name:	CALIFORNIA STATE UNIVERSITY FULLERTON
Violation Date:	04-17-2014
Citation:	HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description:	Failure to comply with all of the following requirements: 1. Failure to conduct inspections and tests in accordance with written procedures that you or a certifying engineer have developed for the facility. 2. Failure to sign written procedures and/or a record of inspections and/or customary business records by the appropriate supervisor or inspector. 3. Failure to keep written procedures and/or a record of inspections and/or customary business records with the plan. AND 4. Failure to maintain written procedures and/or a record of inspections and/or customary business records for three years.
Violation Notes:	Returned to compliance on 05/19/2014. The tanks subject to this SPCC (fuel AST, waste oil tank, emergency generators, hydraulic elevators if they meet SPCC requirements) need to be inspected at least monthly for leaks. The facility currently inspects them annually. Amend your SPCC to make these inspections monthly and begin monthly inspections. Submit the latest logs to this Agency in order to abate this violation.
Violation Division:	Orange County Environmental Health
Violation Program:	APSA
Violation Source:	CERS
Site ID:	15492
Site Name:	CALIFORNIA STATE UNIVERSITY FULLERTON
Violation Date:	04-17-2014
Citation:	HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description:	Failure to provide training regarding: 1. The operation and maintenance of equipment to prevent discharges. 2. Discharge procedure protocols. 3. Applicable pollution control laws, rules, and regulations. 4. General facility operations. AND 5. The contents of the SPCC Plan.
Violation Notes:	Returned to compliance on 05/19/2014. The facility currently trains the oil handling staff annually via the HAZWOPER training. However, the training does not have any SPCC specific training. Please amend your annual training to include SPCC specific topics.
Violation Division:	Orange County Environmental Health
Violation Program:	APSA
Violation Source:	CERS

CALIFORNIA STATE UNIVERSITY FULLERTON (Continued) **S113180209**

Site ID:	15492
Site Name:	CALIFORNIA STATE UNIVERSITY FULLERTON
Violation Date:	06-23-2016
Citation:	22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description:	Failure to properly label hazardous waste accumulation containers with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes:	Returned to compliance on 07/28/2016. All the HW drums/containers are properly labeled. However, the "Universal Waste (UW)", light tubes and capacitors are being stored properly but have no UW labels. Please make sure that all your UW is properly labeled. UW labels were supplied with this report.
Violation Division:	Orange County Environmental Health
Violation Program:	HWLQG
Violation Source:	CERS

Site ID:	15492
Site Name:	CALIFORNIA STATE UNIVERSITY FULLERTON
Violation Date:	10-06-2016
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes:	Returned to compliance on 02/27/2017. Various changes/updates needed to chemical inventory. Specifics noted on inspection form. See general inspection notes regarding RTC date.
Violation Division:	Fullerton City Fire Department
Violation Program:	HMRRP
Violation Source:	CERS

Site ID:	15492
Site Name:	CALIFORNIA STATE UNIVERSITY FULLERTON
Violation Date:	04-17-2014
Citation:	HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description:	Failure to adequately discuss facility tank car and tank truck loading/unloading rack within the plan.
Violation Notes:	Returned to compliance on 05/19/2014. The SPCC lists "spill kits/absorbent" as the leak prevention method for the "general containment" at the "loading area" near the fuel AST. During the inspection, there were (4) 55 gallon drums of absorbent but they were not located near the AST nor were they accessible. They were covered with wood and metal debris. Begin maintaining these spill kits near the AST and ready for use in order to meet spill prevention requirements.
Violation Division:	Orange County Environmental Health
Violation Program:	APSA
Violation Source:	CERS

Site ID:	15492
Site Name:	CALIFORNIA STATE UNIVERSITY FULLERTON
Violation Date:	04-17-2014
Citation:	HSC 6.67 Multiple - California Health and Safety Code, Chapter 6.67, Section(s) Multiple

CALIFORNIA STATE UNIVERSITY FULLERTON (Continued) **S113180209**

Violation Description:	APSA Program - Administration/Documentation - General
Violation Notes:	Returned to compliance on 05/19/2014. The current SPCC lists 55 gallon drums in the auto shop and does not list the hydraulic elevators. Please amend the SPCC to properly reflect the facility.
Violation Division:	Orange County Environmental Health
Violation Program:	APSA
Violation Source:	CERS
Site ID:	15492
Site Name:	CALIFORNIA STATE UNIVERSITY FULLERTON
Violation Date:	08-29-2017
Citation:	22 CCR 15 66265.16 - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.16
Violation Description:	Failure to provide employees with hazardous waste training within the first six months after the date of their employment or assignment to a facility, or to a new position at a facility and annually thereafter. Training records on current personnel shall be kept until closure of the facility and for former employees the record shall be kept for at least three years from the date the employee last worked at the facility.
Violation Notes:	Returned to compliance on 10/02/2017. -Documented employee training documentation was not available for review. -Maintain documented employee training to contain job title, job description, and necessary training, and training completed. Please have this documentation available for review within 30 days.
Violation Division:	Orange County Environmental Health
Violation Program:	HWLQG
Violation Source:	CERS

Evaluation:

Eval General Type:	Other/Unknown
Eval Date:	03-27-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Called CSUF to set the SPCC inspection date. Set for 4-17-14/0900.
Eval Division:	Orange County Environmental Health
Eval Program:	APSA
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	04-17-2014
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	On site for the annual RCRA Large Quantity Generator (LQG) Hazardous Waste (HW) inspection. Permission to inspect granted by CSUF/Plotkin and Mc Quinn. Federal EPA ID # is correct and accurate. Facility is a RCRA LQG, manifesting about 20 tons of HW per year. Biennial report to USEPA is on site and current (2014). Formal, written employee training program was reviewed. OK. Plotkin is the designated trainer. Employee training records are on site (computer). Current and complete. All HW drums/totes/tanks were properly labeled with HW labels and accumulation dates. No spills or leaks. The trash cans were inspected and contained only municipal trash. HW storage areas were clean, no releases. All HW was within the 90 days storage time. All aerosol cans are stored on site and drained via puncturing on the same 90 days cycle. No TP required. There was only one (1) HW storage tank. A 100 gallon waste oil tank. This tank is non RCRA and does not need a

CALIFORNIA STATE UNIVERSITY FULLERTON (Continued) **S113180209**

	[Truncated]
Eval Division:	Orange County Environmental Health
Eval Program:	HWLQG
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	04-21-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Verify new HW page is in EC.
Eval Division:	Orange County Environmental Health
Eval Program:	HWLQG
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	06-08-2012
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Orange County Environmental Health
Eval Program:	HWLQG
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	06-16-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	E-mail CSUF/Boelter to schedule the LQG inspection. E-mailed back, Leo Lopez is the contact. He will call me ASAP.
Eval Division:	Orange County Environmental Health
Eval Program:	HWLQG
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	06-23-2016
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	On site for the triennial Hazardous Waste (HW) inspection. Permission to inspect granted by CSUF/Lopez and Wilcox. The campus is a Large Quantity Generator (LQG) of university maintenance and lab wastes. Wastes are being hauled away on a 90 day cycle. Manifests were reviewed and OK. All HW drums/containers were properly labeled with beginning accumulation dates. Universal Wastes (UW) were stored properly but did not have UW labels. See violations. Labels supplied with this report. HW management/storage area is in a locked area. Individual labs use the satellite accumulation exemption. CSUF staff review all the teaching labs daily for HW pickup. Research labs call staff for pick ups. All HW is then taken to the HW management area for hazard categorizing, drum storage and disposal. SB14 OK. Biennial report OK. Aisle space in the HW area is OK. Daily/weekly HW storage area logs OK. HMBEP on file with the FFD. Emergency response plan [Truncated]
Eval Division:	Orange County Environmental Health
Eval Program:	HWLQG
Eval Source:	CERS
Eval General Type:	Other/Unknown

CALIFORNIA STATE UNIVERSITY FULLERTON (Continued) **S113180209**

Eval Date:	07-28-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Received an E-mail from CSUF/Wilcox regarding the violations listed on the 6-23-16 inspection. Violation # I300 (Hazardous Waste/HW determination): CSUF did a literature review and determined that the concrete release was not hazardous and the samples were of salt water and soil = not hazardous. Abate this violation. Violation # I562 (improper label for Universal Waste/UW): CSUF has placed proper UW labels on the boxes. Abate this violation. No outstanding violations.
Eval Division:	Orange County Environmental Health
Eval Program:	HWLQG
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	08-18-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	CSUF/Mc Quinn had an oil/water HW question. Advised him to call OCSD regarding any sewer discharge issues and that the in line oil/water filter is not subject to TP.
Eval Division:	Orange County Environmental Health
Eval Program:	HWLQG
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-22-2018
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Accompanied on initial inspection by Allan Cabudol of Orange County Environmental Health (OCEH). Photographs were taken on this date of hazardous waste storage areas. Returned on 08/28/18 with Susan Berg of OCEH. Photographs were taken on this date of hazardous waste storage areas. Additional note regarding accumulation time compliance: The following containers of waste were observed during 08/28/2018 walk through: -one 55 gallon drum of acetone, ethyl acetate with an accumulation start date of 05/30/2018 -one 55 gallon drum of aqueous lead nitrate with an accumulation start date of 05/30/2018 Per Mike, facility has a hazardous waste pick-up scheduled for September 14th. On site re-inspection by this agency to occur in approximately 30 days.
Eval Division:	Orange County Environmental Health
Eval Program:	HWLQG
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	01-30-2013
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Orange County Environmental Health
Eval Program:	HWLQG
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	04-07-2009
Violations Found:	Yes

CALIFORNIA STATE UNIVERSITY FULLERTON (Continued) **S113180209**

Eval Type:	Routine done by local agency
Eval Notes:	Inspector Name: Orange CUPA
Eval Division:	Orange County Environmental Health
Eval Program:	HWLQG
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	04-16-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Review prior violations for inspection.
Eval Division:	Orange County Environmental Health
Eval Program:	HWLQG
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	04-21-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	HW page review.
Eval Division:	Orange County Environmental Health
Eval Program:	HWLQG
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	05-07-2009
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Inspector Name: Orange CUPA
Eval Division:	Orange County Environmental Health
Eval Program:	HWLQG
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	03-27-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Called CSUF to set the HW inspection date. Set for 4-17-14/0900.
Eval Division:	Orange County Environmental Health
Eval Program:	HWLQG
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	04-19-2017
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	On site for routine aboveground petroleum storage tank (APST) inspection. The inspection was conducted with Robert Denman, environmental compliance specialist. The facility has petroleum storage above 10,000 gallons, there are some petroleum storage that needs to be added to their plan. All of the tanks and containers have secondary containment. The spill prevention countermeasure and control (SPCC) plan is dated 06/29/2015 and has not been reviewed since then, but the contact information and the transformers need to be added and updated. Employee training records for employees that conduct oil handling activities were available for review. Monthly inspection log was available for review.

CALIFORNIA STATE UNIVERSITY FULLERTON (Continued) **S113180209**

Eval Division:	Orange County Environmental Health
Eval Program:	APSA
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	05-09-2017
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	SPCC plan has been revised and reviewed. Violation I249 has been corrected.
Eval Division:	Orange County Environmental Health
Eval Program:	APSA
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	05-19-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Received via E-mail from CSUF the following information: 1) Updated SPCC to include all elevator hydraulic lifts. 2) Photo to verify that the spill kits are now located next to the fuel AST. 3) Updated training program to include annual training on SPCC requirements. 4) Monthly SPCC inspection logs. Abate violations # AT02, AT13, AT32 and AT36. No outstanding violations.
Eval Division:	Orange County Environmental Health
Eval Program:	APSA
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	08-13-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Called CSUF/McQuinn RE: heat exchanger questions. He was busy and will call back later.
Eval Division:	Orange County Environmental Health
Eval Program:	APSA
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	09-12-2017
Violations Found:	Yes
Eval Type:	Other, not routine, done by local agency
Eval Notes:	INSPECTOR COMMENTS Spoke with Pearl about the accumulation violations that she received for the filters with metals, Dr. Li?s drum, and the satellite accumulation waste paint. Pearl stated that the filters with metals have been tested and are not hazardous, the test results have been received and based upon the results, of the sample which was taken, the filters appear to be not hazardous waste. For the satellite accumulation waste latex paint, she said that this drum was miss labeled and they handle their waste latex paint as an excluded recyclable material. They have the paint recycled through a paint recycling program. For the Dr. Li?s drum, which was over the 90 day accumulation time, Pearl stated that this drum was once a satellite drum which had a one year start date of 01/26/2017 and they recently moved it into the hazardous waste storage area once it was full in August, they just did not put the full date on the drum. Based upon the information received [Truncated]

CALIFORNIA STATE UNIVERSITY FULLERTON (Continued) **S113180209**

Eval Division:	Orange County Environmental Health
Eval Program:	HWLQG
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	10-02-2017
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	This agency has received a copy of their documented employee training program. Violation I126 has been corrected.
Eval Division:	Orange County Environmental Health
Eval Program:	HWLQG
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	11-09-2017
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Fullerton City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	11-20-2018
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Fullerton City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	12-10-2018
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	The following documentation has been received and reviewed by this agency: -Emergency Treatment of Hazardous Waste Notification Facility conducted emergency treatment of hazardous waste on 11/14/2018. Per email from Michael Cox/CSUF, facility obtained a conditional permit from the Department of Toxic Substances Control (DTSC) to perform treatment.
Eval Division:	Orange County Environmental Health
Eval Program:	HWLQG
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	06-10-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	File review of "outstanding violations" showed all 4 violations listed on the 4-17-14 inspection as "outstanding". File review showed that all violations were abated on 5-19-14 however, I failed to close them in the computer. Administratively closed all 4 violations with the 5-19-14 abatement date.
Eval Division:	Orange County Environmental Health
Eval Program:	APSA

CALIFORNIA STATE UNIVERSITY FULLERTON (Continued) **S113180209**

Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 06-17-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Set HW inspection with CSUF/Leo Lopez for 6-23-16/1300.
Eval Division: Orange County Environmental Health
Eval Program: HWLQG
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 08-11-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: CSUF/McGuinn E-mailed anSPCC question regarding an on site "heat exchanger". Called him back asking to call me to discuss.
Eval Division: Orange County Environmental Health
Eval Program: APSA
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-17-2013
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: CHEMICAL INVENTORY IS INCOMPLETE OR NEEDS TO BE UPDATED
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-06-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Due to CUPA data transition from Esubmit to CERS, facility is unable to update disclosure at this time. All necessary revisions to the inventory and Business Emergency Plan shall be submitted by 3/1/17
Eval Division: Fullerton City Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 10-10-2018
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: INSPECTOR COMMENTS: On site for hazardous waste re-inspection, consent to enter and conduct inspection activities was provided by Michael Wilcox, Hazardous Materials Specialist. Accompanied on inspection by Susan Berg of Orange County Environmental Health and Leo Lopez of CSUF Environmental Health and Safety. Walked throughout the facility and observed the hazardous waste storage in the Visual Arts Building and the 90 Day Storage area. Observed the following: -multiple bags of lab waste to be missing "Hazardous Waste" and site address -multiple flammable cabinets to be missing the site address Photograph of completed label provided later in the day, violation I562 has been corrected. Employee training records and plan have been provided to this agency; violation I126 has been corrected. Manifest for the

CALIFORNIA STATE UNIVERSITY FULLERTON (Continued) **S113180209**

hauling of hazardous waste observed on site over the 90 day accumulation time limit have been provided to this agency. Violation I125 has been corrected. [Truncated]

Eval Division: Orange County Environmental Health
Eval Program: HWLQG
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-17-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: On site for the triennial Spill Prevention Control and Countermeasure (SPCC) inspection. Permission to inspect granted by CSUF/Plotkin and Mc Quinn. The facility had the SPCC on site and available for review. Tier I SPCC. It was updated on 4-16-14. The SPCC list has the following regulated tanks/containers: (1) 2,000 gallon, aboveground storage tank (AST), diesel/gasoline, double walled AST with flapper valve OFP. (20) back up generators located throughout the campus. All generators are double walled and contain diesel. 55 gallon drums located in the auto shop. The unloading area near the AST had spill kits that were unaccessible. See violations. The facility had annual inspection logs. Inspection logs must be monthly at a minimum. See violations. The training program does not specifically address SPCC issues. See violations. The site has 2 hydraulic elevator lifts that were not listed on the SPCC and an unknown number of office hydraulic [Truncated]
Eval Division: Orange County Environmental Health
Eval Program: APSA
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 06-23-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: While on site for the Hazardous Waste inspection, it was discussed that the campus had a hydraulic oil release on 3-21-16 from a leaking oil line to an elevator. We discussed that the OES notification was properly made and to make sure to list the leak on the SPCC in order to be in compliance. Formal review will be made during the next scheduled SPCC inspection.
Eval Division: Orange County Environmental Health
Eval Program: APSA
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-29-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: INSPECTOR COMMENTS On site for a routine hazardous waste inspection. Consent to inspect and take any necessary photos was given by Mike Wilcox and Pearl Boelter. Walked throughout the facility. Observed hazardous waste storage areas. Facility has adequate aisle space in their 90 days storage area. Satellite containers in the visual arts building (3 containers) were not maintained closed while not in use. Spent Nitric acid containers in the silk screen studio were not properly labeled, the two 5 gallon containers did not have the word hazardous waste, generator information, content composition, physical

CALIFORNIA STATE UNIVERSITY FULLERTON (Continued) **S113180209**

state hazardous properties, and accumulation start date. There was a 55 gallon drum of lithium bromide waste in the 90 storage area that was not labeled properly, the drum did not have the word hazardous waste, generator information, content composition, physical state hazardous properties, and accumulation start date. There were two containers which have been [Truncated]

Eval Division: Orange County Environmental Health
Eval Program: HWLQG
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-01-2015
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Disclosure submitted via esubmit.
Eval Division: Fullerton City Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 10-24-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: CERS - Facility information was declined due to having checked the CalARP box.
Eval Division: Orange County Environmental Health
Eval Program: HWLQG
Eval Source: CERS

Enforcement Action:
Site ID: 15492
Site Name: CALIFORNIA STATE UNIVERSITY FULLERTON
Site Address: 800 N STATE COLLEGE BLVD
Site City: FULLERTON
Site Zip: 92831
Enf Action Date: 04-07-2009
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Orange County Environmental Health
Enf Action Program: HWLQG
Enf Action Source: CERS

Site ID: 15492
Site Name: CALIFORNIA STATE UNIVERSITY FULLERTON
Site Address: 800 N STATE COLLEGE BLVD
Site City: FULLERTON
Site Zip: 92831
Enf Action Date: 05-07-2009
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Orange County Environmental Health
Enf Action Program: HWLQG
Enf Action Source: CERS

Site ID: 15492

CALIFORNIA STATE UNIVERSITY FULLERTON (Continued) **S113180209**

Site Name:	CALIFORNIA STATE UNIVERSITY FULLERTON
Site Address:	800 N STATE COLLEGE BLVD
Site City:	FULLERTON
Site Zip:	92831
Enf Action Date:	08-31-2018
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	Orange County Environmental Health
Enf Action Program:	HWLQG
Enf Action Source:	CERS

Site ID:	15492
Site Name:	CALIFORNIA STATE UNIVERSITY FULLERTON
Site Address:	800 N STATE COLLEGE BLVD
Site City:	FULLERTON
Site Zip:	92831
Enf Action Date:	09-17-2013
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	Orange County Environmental Health
Enf Action Program:	HMRRP
Enf Action Source:	CERS

Coordinates:

Site ID:	15492
Facility Name:	CALIFORNIA STATE UNIVERSITY FULLERTON
Env Int Type Code:	HWG
Program ID:	10153211
Coord Name:	Not reported
Ref Point Type Desc:	Center of a facility or station.
Latitude:	33.877920
Longitude:	-117.889530

Affiliation:

Affiliation Type Desc:	CUPA District
Entity Name:	Orange County Env Health
Entity Title:	Not reported
Affiliation Address:	1241 East Dyer RoadSuite 120
Affiliation City:	Santa Ana
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92705-5611
Affiliation Phone:	(714) 433-6000

Affiliation Type Desc:	Document Preparer
Entity Name:	Robert Denman
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

CALIFORNIA STATE UNIVERSITY FULLERTON (Continued) **S113180209**

Affiliation Type Desc:	Identification Signer
Entity Name:	Robert Denman
Entity Title:	Environmental Compliance Specialist
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Environmental Contact
Entity Name:	PATRICK M MCQUINN
Entity Title:	ENVIRONMENTAL COMPLIANC
Affiliation Address:	800 STATE COLLEGE BLVD T-1475
Affiliation City:	FULLERTON
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Operator
Entity Name:	California State University, Fullerton
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(657) 278-2011

Affiliation Type Desc:	Parent Corporation
Entity Name:	California State University, Fullerton
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Environmental Contact
Entity Name:	Robert Denman
Entity Title:	Not reported
Affiliation Address:	800 N. State College Blvd.
Affiliation City:	Fullerton
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92831
Affiliation Phone:	Not reported

Affiliation Type Desc:	Legal Owner
Entity Name:	STATE OF CALIFORNIA
Entity Title:	Not reported
Affiliation Address:	400 P
Affiliation City:	Sacramento
Affiliation State:	CA
Affiliation Country:	United States

CALIFORNIA STATE UNIVERSITY FULLERTON (Continued) **S113180209**

Affiliation Zip:	95814
Affiliation Phone:	(562) 951-4000
Affiliation Type Desc:	Property Owner
Entity Name:	State of California
Entity Title:	Not reported
Affiliation Address:	400 P
Affiliation City:	Sacramento
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	95814
Affiliation Phone:	(562) 951-4000
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	P.O. Box 34080
Affiliation City:	Fullerton
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92834-9480
Affiliation Phone:	Not reported

HAZNET:

Site Name:	CALIFORNIA STATE UNIVERSITY FULLERTON
Year:	2017
GEPAID:	CAT080031461
Contact:	ROBERT DENMAN
Telephone:	6572788118
Mailing Name:	Not reported
Mailing Address:	PO BOX 6806
Mailing City,St,Zip:	FULLERTON, CA 928346806
Gen County:	Orange
TSD EPA ID:	CAD044429835
TSD County:	Los Angeles
Tons:	0.125
CA Waste Code:	181-Other inorganic solid waste
Method:	H141-Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County:	Orange
Site Name:	CALIFORNIA STATE UNIVERSITY FULLERTON
Year:	2017
GEPAID:	CAT080031461
Contact:	ROBERT DENMAN
Telephone:	6572788118
Mailing Name:	Not reported
Mailing Address:	PO BOX 6806
Mailing City,St,Zip:	FULLERTON, CA 928346806
Gen County:	Orange
TSD EPA ID:	CAD044429835
TSD County:	Los Angeles
Tons:	2.0625
CA Waste Code:	214-Unspecified solvent mixture
Method:	H141-Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)

CALIFORNIA STATE UNIVERSITY FULLERTON (Continued) **S113180209**

Facility County: Orange

Site Name: CALIFORNIA STATE UNIVERSITY FULLERTON
Year: 2017
GEPAID: CAT080031461
Contact: ROBERT DENMAN
Telephone: 6572788118
Mailing Name: Not reported
Mailing Address: PO BOX 6806
Mailing City,St,Zip: FULLERTON, CA 928346806
Gen County: Orange
TSD EPA ID: CAD044429835
TSD County: Los Angeles
Tons: 2.7
CA Waste Code: 135-Unspecified aqueous solution
Method: H141-Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County: Orange

Site Name: CALIFORNIA STATE UNIVERSITY FULLERTON
Year: 2017
GEPAID: CAT080031461
Contact: ROBERT DENMAN
Telephone: 6572788118
Mailing Name: Not reported
Mailing Address: PO BOX 6806
Mailing City,St,Zip: FULLERTON, CA 928346806
Gen County: Orange
TSD EPA ID: CAD044429835
TSD County: Los Angeles
Tons: 0.115
CA Waste Code: 133-Aqueous solution with total organic residues 10 percent or more
Method: H141-Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County: Orange

Site Name: CALIFORNIA STATE UNIVERSITY FULLERTON
Year: 2017
GEPAID: CAT080031461
Contact: ROBERT DENMAN
Telephone: 6572788118
Mailing Name: Not reported
Mailing Address: PO BOX 6806
Mailing City,St,Zip: FULLERTON, CA 928346806
Gen County: Orange
TSD EPA ID: CAD044429835
TSD County: Los Angeles
Tons: 0.475
CA Waste Code: 132-Aqueous solution with metals (< restricted levels and (Alkaline solution (pH >= 12.5) with metals))
Method: H141-Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County: Orange

Click this hyperlink while viewing on your computer to access
568 additional CA_HAZNET: record(s) in the EDR Site Report.

CALIFORNIA STATE UNIVERSITY FULLERTON (Continued) **S113180209**

CERS TANKS:

Site ID:	15492
CERS ID:	10153211
Site Name:	CALIFORNIA STATE UNIVERSITY FULLERTON
CERS Description:	Chemical Storage Facilities

Violations:

Site ID:	15492
Site Name:	CALIFORNIA STATE UNIVERSITY FULLERTON
Violation Date:	08-22-2018
Citation:	22 CCR 15 66265.173 - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.173
Violation Description:	Failure to meet the following container management requirements: (a) A container holding hazardous waste must always be closed during storage, except when it is necessary to add or remove waste. (b) A container holding hazardous waste must not be opened, handled, or stored in a manner which may rupture the container or cause it to leak.
Violation Notes:	Returned to compliance on 08/22/2018. Observed one 55 gallon drum of oil with water to be open while not in use. Container was closed during course of inspection. Violation corrected on site.
Violation Division:	Orange County Environmental Health
Violation Program:	HWLQG
Violation Source:	CERS

Site ID:	15492
Site Name:	CALIFORNIA STATE UNIVERSITY FULLERTON
Violation Date:	08-29-2017
Citation:	22 CCR 15 66265.173 - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.173
Violation Description:	Failure to meet the following container management requirements: (a) A container holding hazardous waste must always be closed during storage, except when it is necessary to add or remove waste. (b) A container holding hazardous waste must not be opened, handled, or stored in a manner which may rupture the container or cause it to leak.
Violation Notes:	Returned to compliance on 08/22/2018. -Three paint waste containers has a funnel in the bung hole that did not seal completely while not in use. -Maintain waste paint containers to be closed and sealed to prevent a release while not actively adding or removing waste.
Violation Division:	Orange County Environmental Health
Violation Program:	HWLQG
Violation Source:	CERS

Site ID:	15492
Site Name:	CALIFORNIA STATE UNIVERSITY FULLERTON
Violation Date:	04-19-2017
Citation:	HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description:	"Failure to amend the SPCC Plan within 6 months: 1. When the facility has had a change in design, construction, operation, or maintenance which affects the facility?s discharge potential. AND/OR 2. To include more effective proven technology at the time of the 5-year SPCC Plan review and evaluation."
Violation Notes:	Returned to compliance on 05/09/2017. -The amount of oil stored on-site and where they are stored needs to be updated in the SPCC document. -Update the SPCC document and send to this agency with the

CALIFORNIA STATE UNIVERSITY FULLERTON (Continued) **S113180209**

	transformers and mobile refuelers.
Violation Division:	Orange County Environmental Health
Violation Program:	APSA
Violation Source:	CERS
Site ID:	15492
Site Name:	CALIFORNIA STATE UNIVERSITY FULLERTON
Violation Date:	10-01-2015
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes:	Returned to compliance on 10/30/2015.
Violation Division:	Fullerton City Fire Department
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	15492
Site Name:	CALIFORNIA STATE UNIVERSITY FULLERTON
Violation Date:	11-20-2018
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes:	Returned to compliance on 01/15/2019. Inventory required updating because of changes to waste oil container, water treatment chemicals, quantity and location of LPG and quantity of sodium hypochlorite.
Violation Division:	Fullerton City Fire Department
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	15492
Site Name:	CALIFORNIA STATE UNIVERSITY FULLERTON
Violation Date:	09-17-2013
Citation:	HSC 6.95 25504(a) - California Health and Safety Code, Chapter 6.95, Section(s) 25504(a)
Violation Description:	Failure to complete and/or submit hazardous material inventory forms for all reportable hazardous materials on site.
Violation Notes:	Not reported
Violation Division:	Orange County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	15492
Site Name:	CALIFORNIA STATE UNIVERSITY FULLERTON
Violation Date:	08-29-2017
Citation:	22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description:	Failure to properly label hazardous waste accumulation containers with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes:	Returned to compliance on 08/22/2018. -Lithium bromide waste, nitric acid waste were not properly labeled, the containers did not have the word hazardous waste, generator information, content composition,

CALIFORNIA STATE UNIVERSITY FULLERTON (Continued) **S113180209**

physical state hazardous properties, and accumulation start date. There was a waste drum that the waste contents were labeled as "Dr Li's Drum" this is not an adequate description of the waste contents inside the drum. -Properly label waste containers within 30 days.
Violation Division: Orange County Environmental Health
Violation Program: HWLQG
Violation Source: CERS

Site ID: 15492
Site Name: CALIFORNIA STATE UNIVERSITY FULLERTON
Violation Date: 08-29-2017
Citation: 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description: Failure to properly label hazardous waste accumulation containers with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes: Returned to compliance on 08/22/2018. -Dr. Li's Drum (waste water with hexanes), a satellite drum, is missing the dated filled. The latex paint waste is labeled as hazardous waste, but Pearl stated that she is going to manage the waste as an Excluded Recyclable Material (ERM). -Please properly label Dr. Li's drum and the latex paint, within 30 days.
Violation Division: Orange County Environmental Health
Violation Program: HWLQG
Violation Source: CERS

Site ID: 15492
Site Name: CALIFORNIA STATE UNIVERSITY FULLERTON
Violation Date: 11-09-2017
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes: Returned to compliance on 12/08/2017. Kerosene present in disposable quantities and needed to be added to disclosure.
Violation Division: Fullerton City Fire Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 15492
Site Name: CALIFORNIA STATE UNIVERSITY FULLERTON
Violation Date: 04-07-2009
Citation: HSC 6.67 Multiple Sections - California Health and Safety Code, Chapter 6.67, Section(s) Multiple Sections
Violation Description: RCRA Large Quantity Generator Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 04/17/2009.
Violation Division: Orange County Environmental Health
Violation Program: HWLQG
Violation Source: CERS

Site ID: 15492
Site Name: CALIFORNIA STATE UNIVERSITY FULLERTON
Violation Date: 08-22-2018
Citation: HSC 6.5 25201(a) - California Health and Safety Code, Chapter 6.5,

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	Section(s) 25201(a)
Violation Description:	Failure to obtain a permit or grant of interim status to accumulate hazardous waste longer than 90 days.
Violation Notes:	Returned to compliance on 09/14/2018. The following hazardous waste containers were observed with accumulation start dates over the allowed accumulation time limits: -one 55 gallon drum of water with oil, container had been used for satellite storage, initial accumulation start date 08/17/2017 -one 55 gallon drum of contaminated sharps, accumulation start date 05/04/2018, container does not meet satellite storage requirements Have waste hauled by a licensed hazardous waste hauler immediately and provide a copy of the manifest to this agency within 30 days.
Violation Division:	Orange County Environmental Health
Violation Program:	HWLQG
Violation Source:	CERS
Site ID:	15492
Site Name:	CALIFORNIA STATE UNIVERSITY FULLERTON
Violation Date:	08-29-2017
Citation:	HSC 6.5 25201(a) - California Health and Safety Code, Chapter 6.5, Section(s) 25201(a)
Violation Description:	Failure to obtain a permit or grant of interim status to accumulate hazardous waste longer than 90 days.
Violation Notes:	Returned to compliance on 09/28/2017. -Oily water waste, filters with metals waste, and waste latex paint containers have been stored on-site longer than their accumulation time frame. latex paint waste was a satellite drum dated 03/04/2016. filters with metals were dated 04/21/2017 and oily water waste 01/26/2017, both were in the 90 day storage area. -Have hazardous waste hauled immediately. Formal enforcement may occur.
Violation Division:	Orange County Environmental Health
Violation Program:	HWLQG
Violation Source:	CERS
Site ID:	15492
Site Name:	CALIFORNIA STATE UNIVERSITY FULLERTON
Violation Date:	06-23-2016
Citation:	22 CCR 12 66262.11 - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.11
Violation Description:	Failure to determine if the waste generated is a hazardous waste.
Violation Notes:	Returned to compliance on 07/28/2016. During the on site inspection, I reviewed two municipal trash dumpsters located outside the science building. In one dumpster I found a (1) gallon, plastic bottle of "concrete release". The bottle had about 1/2 cup of thick, viscous liquid inside. CSUF staff felt it was from a contract company retained to do concrete repairs on site. I also found in the second dumpster, (1) cardboard box. In the box were numerous "lab samples" used by the geology lab. The samples appeared to be soil samples mixed with unknown liquid inside test tubes and plastic containers (similar to syringe holders). It was unknown if these samples contained just water or another liquid that may be hazardous (ie. solvents). Make sure to conduct a HW determination before any building supplies or lab samples are disposed ot the municipal trash. Please have this HW determination conducted on the two samples (concrete release and lab samples). If they are non hazardous, they may be thrown to the [Truncated]
Violation Division:	Orange County Environmental Health
Violation Program:	HWLQG

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Violation Source: CERS

Site ID: 15492
Site Name: CALIFORNIA STATE UNIVERSITY FULLERTON
Violation Date: 05-07-2009
Citation: HSC 6.67 Multiple Sections - California Health and Safety Code, Chapter 6.67, Section(s) Multiple Sections
Violation Description: RCRA Large Quantity Generator Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 05/21/2009.
Violation Division: Orange County Environmental Health
Violation Program: HWLQG
Violation Source: CERS

Site ID: 15492
Site Name: CALIFORNIA STATE UNIVERSITY FULLERTON
Violation Date: 08-22-2018
Citation: 22 CCR 15 66265.16 - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.16
Violation Description: Failure to provide employees with hazardous waste training program of class room instructions or on-the-job training within the first six months after the date of their employment or assignment to a facility, or to a new position at a facility and annually thereafter. Training records on current personnel shall be kept until closure of the facility and for former employees the record shall be kept for at least three years from the date the employee last worked at the facility. The records shall include the following: the job title for each position at the facility related to hazardous waste management, and the name of the employee filling each job; a written job description for each position, duties of facility personnel assigned to each position, and a written description of the type and amount of both introductory and continuing training that will be given to each person filling a position.
Violation Notes: Returned to compliance on 10/01/2018. Employee safety training is being conducted on an annual basis. Training plan is missing the following: -Written job description for each position; description to include requisite skill, education and duties of facility personnel -Written description of the type and amount of both introductory and continuing education given to personnel Update training plan to include required information and provide a copy to this agency.
Violation Division: Orange County Environmental Health
Violation Program: HWLQG
Violation Source: CERS

Site ID: 15492
Site Name: CALIFORNIA STATE UNIVERSITY FULLERTON
Violation Date: 04-17-2014
Citation: HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description: Failure to comply with all of the following requirements: 1. Failure to conduct inspections and tests in accordance with written procedures that you or a certifying engineer have developed for the facility. 2. Failure to sign written procedures and/or a record of inspections and/or customary business records by the appropriate supervisor or inspector. 3. Failure to keep written procedures and/or a record of inspections and/or customary business records with the plan. AND 4. Failure to maintain written procedures and/or a record of inspections

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	and/or customary business records for three years.
Violation Notes:	Returned to compliance on 05/19/2014. The tanks subject to this SPCC (fuel AST, waste oil tank, emergency generators, hydraulic elevators if they meet SPCC requirements) need to be inspected at least monthly for leaks. The facility currently inspects them annually. Amend your SPCC to make these inspections monthly and begin monthly inspections. Submit the latest logs to this Agency in order to abate this violation.
Violation Division:	Orange County Environmental Health
Violation Program:	APSA
Violation Source:	CERS
Site ID:	15492
Site Name:	CALIFORNIA STATE UNIVERSITY FULLERTON
Violation Date:	04-17-2014
Citation:	HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description:	Failure to provide training regarding: 1. The operation and maintenance of equipment to prevent discharges. 2. Discharge procedure protocols. 3. Applicable pollution control laws, rules, and regulations. 4. General facility operations. AND 5. The contents of the SPCC Plan.
Violation Notes:	Returned to compliance on 05/19/2014. The facility currently trains the oil handling staff annually via the HAZWOPER training. However, the training does not have any SPCC specific training. Please amend your annual training to include SPCC specific topics.
Violation Division:	Orange County Environmental Health
Violation Program:	APSA
Violation Source:	CERS
Site ID:	15492
Site Name:	CALIFORNIA STATE UNIVERSITY FULLERTON
Violation Date:	06-23-2016
Citation:	22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description:	Failure to properly label hazardous waste accumulation containers with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes:	Returned to compliance on 07/28/2016. All the HW drums/containers are properly labeled. However, the "Universal Waste (UW)", light tubes and capacitors are being stored properly but have no UW labels. Please make sure that all your UW is properly labeled. UW labels were supplied with this report.
Violation Division:	Orange County Environmental Health
Violation Program:	HWLQG
Violation Source:	CERS
Site ID:	15492
Site Name:	CALIFORNIA STATE UNIVERSITY FULLERTON
Violation Date:	10-06-2016
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes:	Returned to compliance on 02/27/2017. Various changes/updates needed

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	to chemical inventory. Specifics noted on inspection form. See general inspection notes regarding RTC date.
Violation Division:	Fullerton City Fire Department
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	15492
Site Name:	CALIFORNIA STATE UNIVERSITY FULLERTON
Violation Date:	04-17-2014
Citation:	HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description:	Failure to adequately discuss facility tank car and tank truck loading/unloading rack within the plan.
Violation Notes:	Returned to compliance on 05/19/2014. The SPCC lists "spill kits/absorbent" as the leak prevention method for the "general containment" at the "loading area" near the fuel AST. During the inspection, there were (4) 55 gallon drums of absorbent but they were not located near the AST nor were they accessible. They were covered with wood and metal debris. Begin maintaining these spill kits near the AST and ready for use in order to meet spill prevention requirements.
Violation Division:	Orange County Environmental Health
Violation Program:	APSA
Violation Source:	CERS
Site ID:	15492
Site Name:	CALIFORNIA STATE UNIVERSITY FULLERTON
Violation Date:	04-17-2014
Citation:	HSC 6.67 Multiple - California Health and Safety Code, Chapter 6.67, Section(s) Multiple
Violation Description:	APSA Program - Administration/Documentation - General
Violation Notes:	Returned to compliance on 05/19/2014. The current SPCC lists 55 gallon drums in the auto shop and does not list the hydraulic elevators. Please amend the SPCC to properly reflect the facility.
Violation Division:	Orange County Environmental Health
Violation Program:	APSA
Violation Source:	CERS
Site ID:	15492
Site Name:	CALIFORNIA STATE UNIVERSITY FULLERTON
Violation Date:	08-29-2017
Citation:	22 CCR 15 66265.16 - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.16
Violation Description:	Failure to provide employees with hazardous waste training within the first six months after the date of their employment or assignment to a facility, or to a new position at a facility and annually thereafter. Training records on current personnel shall be kept until closure of the facility and for former employees the record shall be kept for at least three years from the date the employee last worked at the facility.
Violation Notes:	Returned to compliance on 10/02/2017. -Documented employee training documentation was not available for review. -Maintain documented employee training to contain job title, job description, and necessary training, and training completed. Please have this documentation available for review within 30 days.
Violation Division:	Orange County Environmental Health
Violation Program:	HWLQG

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Violation Source: CERS

Evaluation:

Eval General Type: Other/Unknown
Eval Date: 03-27-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Called CSUF to set the SPCC inspection date. Set for 4-17-14/0900.
Eval Division: Orange County Environmental Health
Eval Program: APSA
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-17-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: On site for the annual RCRA Large Quantity Generator (LQG) Hazardous Waste (HW) inspection. Permission to inspect granted by CSUF/Plotkin and Mc Quinn. Federal EPA ID # is correct and accurate. Facility is a RCRA LQG, manifesting about 20 tons of HW per year. Biennial report to USEPA is on site and current (2014). Formal, written employee training program was reviewed. OK. Plotkin is the designated trainer. Employee training records are on site (computer). Current and complete. All HW drums/totes/tanks were properly labeled with HW labels and accumulation dates. No spills or leaks. The trash cans were inspected and contained only municipal trash. HW storage areas were clean, no releases. All HW was within the 90 days storage time. All aerosol cans are stored on site and drained via puncturing on the same 90 days cycle. No TP required. There was only one (1) HW storage tank. A 100 gallon waste oil tank. This tank is non RCRA and does not need a [Truncated]
Eval Division: Orange County Environmental Health
Eval Program: HWLQG
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 04-21-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Verify new HW page is in EC.
Eval Division: Orange County Environmental Health
Eval Program: HWLQG
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-08-2012
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Orange County Environmental Health
Eval Program: HWLQG
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 06-16-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency

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Eval Notes:	E-mail CSUF/Boelter to schedule the LQG inspection. E-mailed back, Leo Lopez is the contact. He will call me ASAP.
Eval Division:	Orange County Environmental Health
Eval Program:	HWLQG
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	06-23-2016
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	On site for the triennial Hazardous Waste (HW) inspection. Permission to inspect granted by CSUF/Lopez and Wilcox. The campus is a Large Quantity Generator (LQG) of university maintenance and lab wastes. Wastes are being hauled away on a 90 day cycle. Manifests were reviewed and OK. All HW drums/containers were properly labeled with beginning accumulation dates. Universal Wastes (UW) were stored properly but did not have UW labels. See violations. Labels supplied with this report. HW management/storage area is in a locked area. Individual labs use the satellite accumulation exemption. CSUF staff review all the teaching labs daily for HW pickup. Research labs call staff for pick ups. All HW is then taken to the HW management area for hazard categorizing, drum storage and disposal. SB14 OK. Biennial report OK. Aisle space in the HW area is OK. Daily/weekly HW storage area logs OK. HMBEP on file with the FFD. Emergency response plan [Truncated]
Eval Division:	Orange County Environmental Health
Eval Program:	HWLQG
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	07-28-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Received an E-mail from CSUF/Wilcox regarding the violations listed on the 6-23-16 inspection. Violation # I300 (Hazardous Waste/HW determination): CSUF did a literature review and determined that the concrete release was not hazardous and the samples were of salt water and soil = not hazardous. Abate this violation. Violation # I562 (improper label for Universal Waste/UW): CSUF has placed proper UW labels on the boxes. Abate this violation. No outstanding violations.
Eval Division:	Orange County Environmental Health
Eval Program:	HWLQG
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	08-18-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	CSUF/Mc Quinn had an oil/water HW question. Advised him to call OCSD regarding any sewer discharge issues and that the in line oil/water filter is not subject to TP.
Eval Division:	Orange County Environmental Health
Eval Program:	HWLQG
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-22-2018

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Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Accompanied on initial inspection by Allan Cabudol of Orange County Environmental Health (OCEH). Photographs were taken on this date of hazardous waste storage areas. Returned on 08/28/18 with Susan Berg of OCEH. Photographs were taken on this date of hazardous waste storage areas. Additional note regarding accumulation time compliance: The following containers of waste were observed during 08/28/2018 walk through: -one 55 gallon drum of acetone, ethyl acetate with an accumulation start date of 05/30/2018 -one 55 gallon drum of aqueous lead nitrate with an accumulation start date of 05/30/2018 Per Mike, facility has a hazardous waste pick-up scheduled for September 14th. On site re-inspection by this agency to occur in approximately 30 days.
Eval Division:	Orange County Environmental Health
Eval Program:	HWLQG
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	01-30-2013
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Orange County Environmental Health
Eval Program:	HWLQG
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	04-07-2009
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Inspector Name: Orange CUPA
Eval Division:	Orange County Environmental Health
Eval Program:	HWLQG
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	04-16-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Review prior violations for inspection.
Eval Division:	Orange County Environmental Health
Eval Program:	HWLQG
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	04-21-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	HW page review.
Eval Division:	Orange County Environmental Health
Eval Program:	HWLQG
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	05-07-2009
Violations Found:	Yes

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Eval Type:	Routine done by local agency
Eval Notes:	Inspector Name: Orange CUPA
Eval Division:	Orange County Environmental Health
Eval Program:	HWLQG
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	03-27-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Called CSUF to set the HW inspection date. Set for 4-17-14/0900.
Eval Division:	Orange County Environmental Health
Eval Program:	HWLQG
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	04-19-2017
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	On site for routine aboveground petroleum storage tank (APST) inspection. The inspection was conducted with Robert Denman, environmental compliance specialist. The facility has petroleum storage above 10,000 gallons, there are some petroleum storage that needs to be added to their plan. All of the tanks and containers have secondary containment. The spill prevention countermeasure and control (SPCC) plan is dated 06/29/2015 and has not been reviewed since then, but the contact information and the transformers need to be added and updated. Employee training records for employees that conduct oil handling activities were available for review. Monthly inspection log was available for review.
Eval Division:	Orange County Environmental Health
Eval Program:	APSA
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	05-09-2017
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	SPCC plan has been revised and reviewed. Violation I249 has been corrected.
Eval Division:	Orange County Environmental Health
Eval Program:	APSA
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	05-19-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Received via E-mail from CSUF the following information: 1) Updated SPCC to include all elevator hydraulic lifts. 2) Photo to verify that the spill kits are now located next to the fuel AST. 3) Updated training program to include annual training on SPCC requirements. 4) Monthly SPCC inspection logs. Abate violations # AT02, AT13, AT32 and AT36. No outstanding violations.
Eval Division:	Orange County Environmental Health
Eval Program:	APSA
Eval Source:	CERS

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Eval General Type:	Other/Unknown
Eval Date:	08-13-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Called CSUF/McQuinn RE: heat exchanger questions. He was busy and will call back later.
Eval Division:	Orange County Environmental Health
Eval Program:	APSA
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	09-12-2017
Violations Found:	Yes
Eval Type:	Other, not routine, done by local agency
Eval Notes:	INSPECTOR COMMENTS Spoke with Pearl about the accumulation violations that she received for the filters with metals, Dr. Li?s drum, and the satellite accumulation waste paint. Pearl stated that the filters with metals have been tested and are not hazardous, the test results have been received and based upon the results, of the sample which was taken, the filters appear to be not hazardous waste. For the satellite accumulation waste latex paint, she said that this drum was miss labeled and they handle their waste latex paint as an excluded recyclable material. They have the paint recycled through a paint recycling program. For the Dr. Li?s drum, which was over the 90 day accumulation time, Pearl stated that this drum was once a satellite drum which had a one year start date of 01/26/2017 and they recently moved it into the hazardous waste storage area once it was full in August, they just did not put the full date on the drum. Based upon the information received [Truncated]
Eval Division:	Orange County Environmental Health
Eval Program:	HWLQG
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	10-02-2017
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	This agency has received a copy of their documented employee training program. Violation I126 has been corrected.
Eval Division:	Orange County Environmental Health
Eval Program:	HWLQG
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	11-09-2017
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Fullerton City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	11-20-2018
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported

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Eval Division:	Fullerton City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	12-10-2018
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	The following documentation has been received and reviewed by this agency: -Emergency Treatment of Hazardous Waste Notification Facility conducted emergency treatment of hazardous waste on 11/14/2018. Per email from Michael Cox/CSUF, facility obtained a conditional permit from the Department of Toxic Substances Control (DTSC) to perform treatment.
Eval Division:	Orange County Environmental Health
Eval Program:	HWLQG
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	06-10-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	File review of "outstanding violations" showed all 4 violations listed on the 4-17-14 inspection as "outstanding". File review showed that all violations were abated on 5-19-14 however, I failed to close them in the computer. Administratively closed all 4 violations with the 5-19-14 abatement date.
Eval Division:	Orange County Environmental Health
Eval Program:	APSA
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	06-17-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Set HW inspection with CSUF/Leo Lopez for 6-23-16/1300.
Eval Division:	Orange County Environmental Health
Eval Program:	HWLQG
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	08-11-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	CSUF/McGuinn E-mailed anSPCC question regarding an on site "heat exchanger". Called him back asking to call me to discuss.
Eval Division:	Orange County Environmental Health
Eval Program:	APSA
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	09-17-2013
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	CHEMICAL INVENTORY IS INCOMPLETE OR NEEDS TO BE UPDATED
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP

CALIFORNIA STATE UNIVERSITY FULLERTON (Continued) **S113180209**

Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	10-06-2016
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Due to CUPA data transition from Esubmit to CERS, facility is unable to update disclosure at this time. All necessary revisions to the inventory and Business Emergency Plan shall be submitted by 3/1/17
Eval Division:	Fullerton City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	10-10-2018
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	INSPECTOR COMMENTS: On site for hazardous waste re-inspection, consent to enter and conduct inspection activities was provided by Michael Wilcox, Hazardous Materials Specialist. Accompanied on inspection by Susan Berg of Orange County Environmental Health and Leo Lopez of CSUF Environmental Health and Safety. Walked throughout the facility and observed the hazardous waste storage in the Visual Arts Building and the 90 Day Storage area. Observed the following: -multiple bags of lab waste to be missing "Hazardous Waste" and site address -multiple flammable cabinets to be missing the site address Photograph of completed label provided later in the day, violation I562 has been corrected. Employee training records and plan have been provided to this agency; violation I126 has been corrected. Manifest for the hauling of hazardous waste observed on site over the 90 day accumulation time limit have been provided to this agency. Violation I125 has been corrected. [Truncated]
Eval Division:	Orange County Environmental Health
Eval Program:	HWLQG
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	04-17-2014
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	On site for the triennial Spill Prevention Control and Countermeasure (SPCC) inspection. Permission to inspect granted by CSUF/Plotkin and Mc Quinn. The facility had the SPCC on site and available for review. Tier I SPCC. It was updated on 4-16-14. The SPCC list has the following regulated tanks/containers: (1) 2,000 gallon, aboveground storage tank (AST), diesel/gasoline, double walled AST with flapper valve OFP. (20) back up generators located throughout the campus. All generators are double walled and contain diesel. 55 gallon drums located in the auto shop. The unloading area near the AST had spill kits that were unaccessible. See violations. The facility had annual inspection logs. Inspection logs must be monthly at a minimum. See violations. The training program does not specifically address SPCC issues. See violations. The site has 2 hydraulic elevator lifts that were not listed on the SPCC and an unknown number of office hydraulic [Truncated]
Eval Division:	Orange County Environmental Health
Eval Program:	APSA

CALIFORNIA STATE UNIVERSITY FULLERTON (Continued) **S113180209**

Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	06-23-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	While on site for the Hazardous Waste inspection, it was discussed that the campus had a hydraulic oil release on 3-21-16 from a leaking oil line to an elevator. We discussed that the OES notification was properly made and to make sure to list the leak on the SPCC in order to be in compliance. Formal review will be made during the next scheduled SPCC inspection.
Eval Division:	Orange County Environmental Health
Eval Program:	APSA
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-29-2017
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	INSPECTOR COMMENTS On site for a routine hazardous waste inspection. Consent to inspect and take any necessary photos was given by Mike Wilcox and Pearl Boelter. Walked throughout the facility. Observed hazardous waste storage areas. Facility has adequate aisle space in their 90 days storage area. Satellite containers in the visual arts building (3 containers) were not maintained closed while not in use. Spent Nitric acid containers in the silk screen studio were not properly labeled, the two 5 gallon containers did not have the word hazardous waste, generator information, content composition, physical state hazardous properties, and accumulation start date. There was a 55 gallon drum of lithium bromide waste in the 90 storage area that was not labeled properly, the drum did not have the word hazardous waste, generator information, content composition, physical state hazardous properties, and accumulation start date. There were two containers which have been [Truncated]
Eval Division:	Orange County Environmental Health
Eval Program:	HWLQG
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	10-01-2015
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Disclosure submitted via esubmit.
Eval Division:	Fullerton City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	10-24-2017
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	CERS - Facility information was declined due to having checked the CalARP box.
Eval Division:	Orange County Environmental Health
Eval Program:	HWLQG
Eval Source:	CERS

CALIFORNIA STATE UNIVERSITY FULLERTON (Continued) **S113180209**

Enforcement Action:

Site ID:	15492
Site Name:	CALIFORNIA STATE UNIVERSITY FULLERTON
Site Address:	800 N STATE COLLEGE BLVD
Site City:	FULLERTON
Site Zip:	92831
Enf Action Date:	04-07-2009
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	Orange County Environmental Health
Enf Action Program:	HWLQG
Enf Action Source:	CERS

Site ID:	15492
Site Name:	CALIFORNIA STATE UNIVERSITY FULLERTON
Site Address:	800 N STATE COLLEGE BLVD
Site City:	FULLERTON
Site Zip:	92831
Enf Action Date:	05-07-2009
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	Orange County Environmental Health
Enf Action Program:	HWLQG
Enf Action Source:	CERS

Site ID:	15492
Site Name:	CALIFORNIA STATE UNIVERSITY FULLERTON
Site Address:	800 N STATE COLLEGE BLVD
Site City:	FULLERTON
Site Zip:	92831
Enf Action Date:	08-31-2018
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	Orange County Environmental Health
Enf Action Program:	HWLQG
Enf Action Source:	CERS

Site ID:	15492
Site Name:	CALIFORNIA STATE UNIVERSITY FULLERTON
Site Address:	800 N STATE COLLEGE BLVD
Site City:	FULLERTON
Site Zip:	92831
Enf Action Date:	09-17-2013
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	Orange County Environmental Health
Enf Action Program:	HMRRP
Enf Action Source:	CERS

Coordinates:

Site ID:	15492
Facility Name:	CALIFORNIA STATE UNIVERSITY FULLERTON

CALIFORNIA STATE UNIVERSITY FULLERTON (Continued) **S113180209**

Env Int Type Code:	HWG
Program ID:	10153211
Coord Name:	Not reported
Ref Point Type Desc:	Center of a facility or station.
Latitude:	33.877920
Longitude:	-117.889530

Affiliation:

Affiliation Type Desc:	CUPA District
Entity Name:	Orange County Env Health
Entity Title:	Not reported
Affiliation Address:	1241 East Dyer RoadSuite 120
Affiliation City:	Santa Ana
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92705-5611
Affiliation Phone:	(714) 433-6000

Affiliation Type Desc:	Document Preparer
Entity Name:	Robert Denman
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Identification Signer
Entity Name:	Robert Denman
Entity Title:	Environmental Compliance Specialist
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Environmental Contact
Entity Name:	PATRICK M MCQUINN
Entity Title:	ENVIRONMENTAL COMPLIANC
Affiliation Address:	800 STATE COLLEGE BLVD T-1475
Affiliation City:	FULLERTON
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Operator
Entity Name:	California State University, Fullerton
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(657) 278-2011

CALIFORNIA STATE UNIVERSITY FULLERTON (Continued) **S113180209**

Affiliation Type Desc:	Parent Corporation
Entity Name:	California State University, Fullerton
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Environmental Contact
Entity Name:	Robert Denman
Entity Title:	Not reported
Affiliation Address:	800 N. State College Blvd.
Affiliation City:	Fullerton
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92831
Affiliation Phone:	Not reported

Affiliation Type Desc:	Legal Owner
Entity Name:	STATE OF CALIFORNIA
Entity Title:	Not reported
Affiliation Address:	400 P
Affiliation City:	Sacramento
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	95814
Affiliation Phone:	(562) 951-4000

Affiliation Type Desc:	Property Owner
Entity Name:	State of California
Entity Title:	Not reported
Affiliation Address:	400 P
Affiliation City:	Sacramento
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	95814
Affiliation Phone:	(562) 951-4000

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	P.O. Box 34080
Affiliation City:	Fullerton
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92834-9480
Affiliation Phone:	Not reported

Site ID:	15492
CERS ID:	110025604246
Site Name:	CALIFORNIA STATE UNIVERSITY FULLERTON
CERS Description:	US EPA Air Emission Inventory System (EIS)

Violations:

Site ID:	15492

CALIFORNIA STATE UNIVERSITY FULLERTON (Continued) **S113180209**

Site Name:	CALIFORNIA STATE UNIVERSITY FULLERTON
Violation Date:	08-22-2018
Citation:	22 CCR 15 66265.173 - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.173
Violation Description:	Failure to meet the following container management requirements: (a) A container holding hazardous waste must always be closed during storage, except when it is necessary to add or remove waste. (b) A container holding hazardous waste must not be opened, handled, or stored in a manner which may rupture the container or cause it to leak.
Violation Notes:	Returned to compliance on 08/22/2018. Observed one 55 gallon drum of oil with water to be open while not in use. Container was closed during course of inspection. Violation corrected on site.
Violation Division:	Orange County Environmental Health
Violation Program:	HWLQG
Violation Source:	CERS
Site ID:	15492
Site Name:	CALIFORNIA STATE UNIVERSITY FULLERTON
Violation Date:	08-29-2017
Citation:	22 CCR 15 66265.173 - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.173
Violation Description:	Failure to meet the following container management requirements: (a) A container holding hazardous waste must always be closed during storage, except when it is necessary to add or remove waste. (b) A container holding hazardous waste must not be opened, handled, or stored in a manner which may rupture the container or cause it to leak.
Violation Notes:	Returned to compliance on 08/22/2018. -Three paint waste containers has a funnel in the bung hole that did not seal completely while not in use. -Maintain waste paint containers to be closed and sealed to prevent a release while not actively adding or removing waste.
Violation Division:	Orange County Environmental Health
Violation Program:	HWLQG
Violation Source:	CERS
Site ID:	15492
Site Name:	CALIFORNIA STATE UNIVERSITY FULLERTON
Violation Date:	04-19-2017
Citation:	HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description:	"Failure to amend the SPCC Plan within 6 months: 1. When the facility has had a change in design, construction, operation, or maintenance which affects the facility?s discharge potential. AND/OR 2. To include more effective proven technology at the time of the 5-year SPCC Plan review and evaluation."
Violation Notes:	Returned to compliance on 05/09/2017. -The amount of oil stored on-site and where they are stored needs to be updated in the SPCC document. -Update the SPCC document and send to this agency with the transformers and mobile refuelers.
Violation Division:	Orange County Environmental Health
Violation Program:	APSA
Violation Source:	CERS
Site ID:	15492
Site Name:	CALIFORNIA STATE UNIVERSITY FULLERTON
Violation Date:	10-01-2015

CALIFORNIA STATE UNIVERSITY FULLERTON (Continued) **S113180209**

Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes:	Returned to compliance on 10/30/2015.
Violation Division:	Fullerton City Fire Department
Violation Program:	HMRRP
Violation Source:	CERS

Site ID:	15492
Site Name:	CALIFORNIA STATE UNIVERSITY FULLERTON
Violation Date:	11-20-2018
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes:	Returned to compliance on 01/15/2019. Inventory required updating because of changes to waste oil container, water treatment chemicals, quantity and location of LPG and quantity of sodium hypochlorite.
Violation Division:	Fullerton City Fire Department
Violation Program:	HMRRP
Violation Source:	CERS

Site ID:	15492
Site Name:	CALIFORNIA STATE UNIVERSITY FULLERTON
Violation Date:	09-17-2013
Citation:	HSC 6.95 25504(a) - California Health and Safety Code, Chapter 6.95, Section(s) 25504(a)
Violation Description:	Failure to complete and/or submit hazardous material inventory forms for all reportable hazardous materials on site.
Violation Notes:	Not reported
Violation Division:	Orange County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS

Site ID:	15492
Site Name:	CALIFORNIA STATE UNIVERSITY FULLERTON
Violation Date:	08-29-2017
Citation:	22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description:	Failure to properly label hazardous waste accumulation containers with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes:	Returned to compliance on 08/22/2018. -Lithium bromide waste, nitric acid waste were not properly labeled, the containers did not have the word hazardous waste, generator information, content composition, physical state hazardous properties, and accumulation start date. There was a waste drum that the waste contents were labeled as "Dr Li's Drum" this is not an adequate description of the waste contents inside the drum. -Properly label waste containers within 30 days.
Violation Division:	Orange County Environmental Health
Violation Program:	HWLQG
Violation Source:	CERS

CALIFORNIA STATE UNIVERSITY FULLERTON (Continued) **S113180209**

Site ID: 15492
Site Name: CALIFORNIA STATE UNIVERSITY FULLERTON
Violation Date: 08-29-2017
Citation: 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description: Failure to properly label hazardous waste accumulation containers with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes: Returned to compliance on 08/22/2018. -Dr. Li's Drum (waste water with hexanes), a satellite drum, is missing the dated filled. The latex paint waste is labeled as hazardous waste, but Pearl stated that she is going to manage the waste as an Excluded Recyclable Material (ERM). -Please properly label Dr. Li's drum and the latex paint, within 30 days.
Violation Division: Orange County Environmental Health
Violation Program: HWLQG
Violation Source: CERS

Site ID: 15492
Site Name: CALIFORNIA STATE UNIVERSITY FULLERTON
Violation Date: 11-09-2017
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes: Returned to compliance on 12/08/2017. Kerosene present in disposable quantities and needed to be added to disclosure.
Violation Division: Fullerton City Fire Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 15492
Site Name: CALIFORNIA STATE UNIVERSITY FULLERTON
Violation Date: 04-07-2009
Citation: HSC 6.67 Multiple Sections - California Health and Safety Code, Chapter 6.67, Section(s) Multiple Sections
Violation Description: RCRA Large Quantity Generator Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 04/17/2009.
Violation Division: Orange County Environmental Health
Violation Program: HWLQG
Violation Source: CERS

Site ID: 15492
Site Name: CALIFORNIA STATE UNIVERSITY FULLERTON
Violation Date: 08-22-2018
Citation: HSC 6.5 25201(a) - California Health and Safety Code, Chapter 6.5, Section(s) 25201(a)
Violation Description: Failure to obtain a permit or grant of interim status to accumulate hazardous waste longer than 90 days.
Violation Notes: Returned to compliance on 09/14/2018. The following hazardous waste containers were observed with accumulation start dates over the allowed accumulation time limits: -one 55 gallon drum of water with oil, container had been used for satellite storage, initial accumulation start date 08/17/2017 -one 55 gallon drum of contaminated

CALIFORNIA STATE UNIVERSITY FULLERTON (Continued) **S113180209**

sharps, accumulation start date 05/04/2018, container does not meet satellite storage requirements Have waste hauled by a licensed hazardous waste hauler immediately and provide a copy of the manifest to this agency within 30 days.

Violation Division: Orange County Environmental Health
Violation Program: HWLQG
Violation Source: CERS

Site ID: 15492
Site Name: CALIFORNIA STATE UNIVERSITY FULLERTON
Violation Date: 08-29-2017
Citation: HSC 6.5 25201(a) - California Health and Safety Code, Chapter 6.5, Section(s) 25201(a)
Violation Description: Failure to obtain a permit or grant of interim status to accumulate hazardous waste longer than 90 days.
Violation Notes: Returned to compliance on 09/28/2017. -Oily water waste, filters with metals waste, and waste latex paint containers have been stored on-site longer than their accumulation time frame. latex paint waste was a satellite drum dated 03/04/2016. filters with metals were dated 04/21/2017 and oily water waste 01/26/2017, both were in the 90 day storage area. -Have hazardous waste hauled immediately. Formal enforcement may occur.
Violation Division: Orange County Environmental Health
Violation Program: HWLQG
Violation Source: CERS

Site ID: 15492
Site Name: CALIFORNIA STATE UNIVERSITY FULLERTON
Violation Date: 06-23-2016
Citation: 22 CCR 12 66262.11 - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.11
Violation Description: Failure to determine if the waste generated is a hazardous waste.
Violation Notes: Returned to compliance on 07/28/2016. During the on site inspection, I reviewed two municipal trash dumpsters located outside the science building. In one dumpster I found a (1) gallon, plastic bottle of "concrete release". The bottle had about 1/2 cup of thick, viscous liquid inside. CSUF staff felt it was from a contract company retained to do concrete repairs on site. I also found in the second dumpster, (1) cardboard box. In the box were numerous "lab samples" used by the geology lab. The samples appeared to be soil samples mixed with unknown liquid inside test tubes and plastic containers (similar to syringe holders). It was unknown if these samples contained just water or another liquid that may be hazardous (ie. solvents). Make sure to conduct a HW determination before any building supplies or lab samples are disposed ot the municipal trash. Please have this HW determination conducted on the two samples (concrete release and lab samples). If they are non hazardous, they may be thrown to the [Truncated]
Violation Division: Orange County Environmental Health
Violation Program: HWLQG
Violation Source: CERS

Site ID: 15492
Site Name: CALIFORNIA STATE UNIVERSITY FULLERTON
Violation Date: 05-07-2009
Citation: HSC 6.67 Multiple Sections - California Health and Safety Code, Chapter 6.67, Section(s) Multiple Sections
Violation Description: RCRA Large Quantity Generator Program - Administration/Documentation -

CALIFORNIA STATE UNIVERSITY FULLERTON (Continued) **S113180209**

	General
Violation Notes:	Returned to compliance on 05/21/2009.
Violation Division:	Orange County Environmental Health
Violation Program:	HWLQG
Violation Source:	CERS
Site ID:	15492
Site Name:	CALIFORNIA STATE UNIVERSITY FULLERTON
Violation Date:	08-22-2018
Citation:	22 CCR 15 66265.16 - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.16
Violation Description:	Failure to provide employees with hazardous waste training program of class room instructions or on-the-job training within the first six months after the date of their employment or assignment to a facility, or to a new position at a facility and annually thereafter. Training records on current personnel shall be kept until closure of the facility and for former employees the record shall be kept for at least three years from the date the employee last worked at the facility. The records shall include the following: the job title for each position at the facility related to hazardous waste management, and the name of the employee filling each job; a written job description for each position, duties of facility personnel assigned to each position, and a written description of the type and amount of both introductory and continuing training that will be given to each person filling a position.
Violation Notes:	Returned to compliance on 10/01/2018. Employee safety training is being conducted on an annual basis. Training plan is missing the following: -Written job description for each position; description to include requisite skill, education and duties of facility personnel -Written description of the type and amount of both introductory and continuing education given to personnel Update training plan to include required information and provide a copy to this agency.
Violation Division:	Orange County Environmental Health
Violation Program:	HWLQG
Violation Source:	CERS
Site ID:	15492
Site Name:	CALIFORNIA STATE UNIVERSITY FULLERTON
Violation Date:	04-17-2014
Citation:	HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description:	Failure to comply with all of the following requirements: 1. Failure to conduct inspections and tests in accordance with written procedures that you or a certifying engineer have developed for the facility. 2. Failure to sign written procedures and/or a record of inspections and/or customary business records by the appropriate supervisor or inspector. 3. Failure to keep written procedures and/or a record of inspections and/or customary business records with the plan. AND 4. Failure to maintain written procedures and/or a record of inspections and/or customary business records for three years.
Violation Notes:	Returned to compliance on 05/19/2014. The tanks subject to this SPCC (fuel AST, waste oil tank, emergency generators, hydraulic elevators if they meet SPCC requirements) need to be inspected at least monthly for leaks. The facility currently inspects them annually. Amend your SPCC to make these inspections monthly and begin monthly inspections. Submit the latest logs to this Agency in order to abate this violation.

CALIFORNIA STATE UNIVERSITY FULLERTON (Continued) **S113180209**

Violation Division:	Orange County Environmental Health
Violation Program:	APSA
Violation Source:	CERS
Site ID:	15492
Site Name:	CALIFORNIA STATE UNIVERSITY FULLERTON
Violation Date:	04-17-2014
Citation:	HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description:	Failure to provide training regarding: 1. The operation and maintenance of equipment to prevent discharges. 2. Discharge procedure protocols. 3. Applicable pollution control laws, rules, and regulations. 4. General facility operations. AND 5. The contents of the SPCC Plan.
Violation Notes:	Returned to compliance on 05/19/2014. The facility currently trains the oil handling staff annually via the HAZWOPER training. However, the training does not have any SPCC specific training. Please amend your annual training to include SPCC specific topics.
Violation Division:	Orange County Environmental Health
Violation Program:	APSA
Violation Source:	CERS
Site ID:	15492
Site Name:	CALIFORNIA STATE UNIVERSITY FULLERTON
Violation Date:	06-23-2016
Citation:	22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description:	Failure to properly label hazardous waste accumulation containers with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes:	Returned to compliance on 07/28/2016. All the HW drums/containers are properly labeled. However, the "Universal Waste (UW)", light tubes and capacitors are being stored properly but have no UW labels. Please make sure that all your UW is properly labeled. UW labels were supplied with this report.
Violation Division:	Orange County Environmental Health
Violation Program:	HWLQG
Violation Source:	CERS
Site ID:	15492
Site Name:	CALIFORNIA STATE UNIVERSITY FULLERTON
Violation Date:	10-06-2016
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes:	Returned to compliance on 02/27/2017. Various changes/updates needed to chemical inventory. Specifics noted on inspection form. See general inspection notes regarding RTC date.
Violation Division:	Fullerton City Fire Department
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	15492
Site Name:	CALIFORNIA STATE UNIVERSITY FULLERTON

CALIFORNIA STATE UNIVERSITY FULLERTON (Continued) **S113180209**

Violation Date:	04-17-2014
Citation:	HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description:	Failure to adequately discuss facility tank car and tank truck loading/unloading rack within the plan.
Violation Notes:	Returned to compliance on 05/19/2014. The SPCC lists "spill kits/absorbent" as the leak prevention method for the "general containment" at the "loading area" near the fuel AST. During the inspection, there were (4) 55 gallon drums of absorbent but they were not located near the AST nor were they accessible. They were covered with wood and metal debris. Begin maintaining these spill kits near the AST and ready for use in order to meet spill prevention requirements.
Violation Division:	Orange County Environmental Health
Violation Program:	APSA
Violation Source:	CERS

Site ID:	15492
Site Name:	CALIFORNIA STATE UNIVERSITY FULLERTON
Violation Date:	04-17-2014
Citation:	HSC 6.67 Multiple - California Health and Safety Code, Chapter 6.67, Section(s) Multiple
Violation Description:	APSA Program - Administration/Documentation - General
Violation Notes:	Returned to compliance on 05/19/2014. The current SPCC lists 55 gallon drums in the auto shop and does not list the hydraulic elevators. Please amend the SPCC to properly reflect the facility.
Violation Division:	Orange County Environmental Health
Violation Program:	APSA
Violation Source:	CERS

Site ID:	15492
Site Name:	CALIFORNIA STATE UNIVERSITY FULLERTON
Violation Date:	08-29-2017
Citation:	22 CCR 15 66265.16 - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.16
Violation Description:	Failure to provide employees with hazardous waste training within the first six months after the date of their employment or assignment to a facility, or to a new position at a facility and annually thereafter. Training records on current personnel shall be kept until closure of the facility and for former employees the record shall be kept for at least three years from the date the employee last worked at the facility.
Violation Notes:	Returned to compliance on 10/02/2017. -Documented employee training documentation was not available for review. -Maintain documented employee training to contain job title, job description, and necessary training, and training completed. Please have this documentation available for review within 30 days.
Violation Division:	Orange County Environmental Health
Violation Program:	HWLQG
Violation Source:	CERS

Evaluation:

Eval General Type:	Other/Unknown
Eval Date:	03-27-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Called CSUF to set the SPCC inspection date. Set for 4-17-14/0900.

CALIFORNIA STATE UNIVERSITY FULLERTON (Continued) **S113180209**

Eval Division: Orange County Environmental Health
Eval Program: APSA
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-17-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: On site for the annual RCRA Large Quantity Generator (LQG) Hazardous Waste (HW) inspection. Permission to inspect granted by CSUF/Plotkin and Mc Quinn. Federal EPA ID # is correct and accurate. Facility is a RCRA LQG, manifesting about 20 tons of HW per year. Biennial report to USEPA is on site and current (2014). Formal, written employee training program was reviewed. OK. Plotkin is the designated trainer. Employee training records are on site (computer). Current and complete. All HW drums/totes/tanks were properly labeled with HW labels and accumulation dates. No spills or leaks. The trash cans were inspected and contained only municipal trash. HW storage areas were clean, no releases. All HW was within the 90 days storage time. All aerosol cans are stored on site and drained via puncturing on the same 90 days cycle. No TP required. There was only one (1) HW storage tank. A 100 gallon waste oil tank. This tank is non RCRA and does not need a [Truncated]
Eval Division: Orange County Environmental Health
Eval Program: HWLQG
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 04-21-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Verify new HW page is in EC.
Eval Division: Orange County Environmental Health
Eval Program: HWLQG
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-08-2012
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Orange County Environmental Health
Eval Program: HWLQG
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 06-16-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: E-mail CSUF/Boelter to schedule the LQG inspection. E-mailed back, Leo Lopez is the contact. He will call me ASAP.
Eval Division: Orange County Environmental Health
Eval Program: HWLQG
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-23-2016

CALIFORNIA STATE UNIVERSITY FULLERTON (Continued) **S113180209**

Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	On site for the triennial Hazardous Waste (HW) inspection. Permission to inspect granted by CSUF/Lopez and Wilcox. The campus is a Large Quantity Generator (LQG) of university maintenance and lab wastes. Wastes are being hauled away on a 90 day cycle. Manifests were reviewed and OK. All HW drums/containers were properly labeled with beginning accumulation dates. Universal Wastes (UW) were stored properly but did not have UW labels. See violations. Labels supplied with this report. HW management/storage area is in a locked area. Individual labs use the satellite accumulation exemption. CSUF staff review all the teaching labs daily for HW pickup. Research labs call staff for pick ups. All HW is then taken to the HW management area for hazard categorizing, drum storage and disposal. SB14 OK. Biennial report OK. Aisle space in the HW area is OK. Daily/weekly HW storage area logs OK. HMBEP on file with the FFD. Emergency response plan [Truncated]
Eval Division:	Orange County Environmental Health
Eval Program:	HWLQG
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	07-28-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Received an E-mail from CSUF/Wilcox regarding the violations listed on the 6-23-16 inspection. Violation # I300 (Hazardous Waste/HW determination): CSUF did a literature review and determined that the concrete release was not hazardous and the samples were of salt water and soil = not hazardous. Abate this violation. Violation # I562 (improper label for Universal Waste/UW): CSUF has placed proper UW labels on the boxes. Abate this violation. No outstanding violations.
Eval Division:	Orange County Environmental Health
Eval Program:	HWLQG
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	08-18-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	CSUF/Mc Quinn had an oil/water HW question. Advised him to call OCSD regarding any sewer discharge issues and that the in line oil/water filter is not subject to TP.
Eval Division:	Orange County Environmental Health
Eval Program:	HWLQG
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-22-2018
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Accompanied on initial inspection by Allan Cabudol of Orange County Environmental Health (OCEH). Photographs were taken on this date of hazardous waste storage areas. Returned on 08/28/18 with Susan Berg of OCEH. Photographs were taken on this date of hazardous waste storage areas. Additional note regarding accumulation time compliance: The following containers of waste were observed during 08/28/2018 walk

CALIFORNIA STATE UNIVERSITY FULLERTON (Continued) **S113180209**

through: -one 55 gallon drum of acetone, ethyl acetate with an accumulation start date of 05/30/2018 -one 55 gallon drum of aqueous lead nitrate with an accumulation start date of 05/30/2018 Per Mike, facility has a hazardous waste pick-up scheduled for September 14th. On site re-inspection by this agency to occur in approximately 30 days.

Eval Division: Orange County Environmental Health
Eval Program: HWLQG
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-30-2013
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Orange County Environmental Health
Eval Program: HWLQG
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-07-2009
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Inspector Name: Orange CUPA
Eval Division: Orange County Environmental Health
Eval Program: HWLQG
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 04-16-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Review prior violations for inspection.
Eval Division: Orange County Environmental Health
Eval Program: HWLQG
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 04-21-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: HW page review.
Eval Division: Orange County Environmental Health
Eval Program: HWLQG
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 05-07-2009
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Inspector Name: Orange CUPA
Eval Division: Orange County Environmental Health
Eval Program: HWLQG
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 03-27-2014

CALIFORNIA STATE UNIVERSITY FULLERTON (Continued) **S113180209**

Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Called CSUF to set the HW inspection date. Set for 4-17-14/0900.
Eval Division:	Orange County Environmental Health
Eval Program:	HWLQG
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	04-19-2017
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	On site for routine aboveground petroleum storage tank (APST) inspection. The inspection was conducted with Robert Denman, environmental compliance specialist. The facility has petroleum storage above 10,000 gallons, there are some petroleum storage that needs to be added to their plan. All of the tanks and containers have secondary containment. The spill prevention countermeasure and control (SPCC) plan is dated 06/29/2015 and has not been reviewed since then, but the contact information and the transformers need to be added and updated. Employee training records for employees that conduct oil handling activities were available for review. Monthly inspection log was available for review.
Eval Division:	Orange County Environmental Health
Eval Program:	APSA
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	05-09-2017
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	SPCC plan has been revised and reviewed. Violation I249 has been corrected.
Eval Division:	Orange County Environmental Health
Eval Program:	APSA
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	05-19-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Received via E-mail from CSUF the following information: 1) Updated SPCC to include all elevator hydraulic lifts. 2) Photo to verify that the spill kits are now located next to the fuel AST. 3) Updated training program to include annual training on SPCC requirements. 4) Monthly SPCC inspection logs. Abate violations # AT02, AT13, AT32 and AT36. No outstanding violations.
Eval Division:	Orange County Environmental Health
Eval Program:	APSA
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	08-13-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Called CSUF/McQuinn RE: heat exchanger questions. He was busy and will call back later.
Eval Division:	Orange County Environmental Health

CALIFORNIA STATE UNIVERSITY FULLERTON (Continued) **S113180209**

Eval Program:	APSA
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	09-12-2017
Violations Found:	Yes
Eval Type:	Other, not routine, done by local agency
Eval Notes:	INSPECTOR COMMENTS Spoke with Pearl about the accumulation violations that she received for the filters with metals, Dr. Li?s drum, and the satellite accumulation waste paint. Pearl stated that the filters with metals have been tested and are not hazardous, the test results have been received and based upon the results, of the sample which was taken, the filters appear to be not hazardous waste. For the satellite accumulation waste latex paint, she said that this drum was miss labeled and they handle their waste latex paint as an excluded recyclable material. They have the paint recycled through a paint recycling program. For the Dr. Li?s drum, which was over the 90 day accumulation time, Pearl stated that this drum was once a satellite drum which had a one year start date of 01/26/2017 and they recently moved it into the hazardous waste storage area once it was full in August, they just did not put the full date on the drum. Based upon the information received [Truncated]
Eval Division:	Orange County Environmental Health
Eval Program:	HWLQG
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	10-02-2017
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	This agency has received a copy of their documented employee training program. Violation I126 has been corrected.
Eval Division:	Orange County Environmental Health
Eval Program:	HWLQG
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	11-09-2017
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Fullerton City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	11-20-2018
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Fullerton City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	12-10-2018
Violations Found:	No

CALIFORNIA STATE UNIVERSITY FULLERTON (Continued) **S113180209**

Eval Type:	Other, not routine, done by local agency
Eval Notes:	The following documentation has been received and reviewed by this agency: -Emergency Treatment of Hazardous Waste Notification Facility conducted emergency treatment of hazardous waste on 11/14/2018. Per email from Michael Cox/CSUF, facility obtained a conditional permit from the Department of Toxic Substances Control (DTSC) to perform treatment.
Eval Division:	Orange County Environmental Health
Eval Program:	HWLQG
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	06-10-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	File review of "outstanding violations" showed all 4 violations listed on the 4-17-14 inspection as "outstanding". File review showed that all violations were abated on 5-19-14 however, I failed to close them in the computer. Administratively closed all 4 violations with the 5-19-14 abatement date.
Eval Division:	Orange County Environmental Health
Eval Program:	APSA
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	06-17-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Set HW inspection with CSUF/Leo Lopez for 6-23-16/1300.
Eval Division:	Orange County Environmental Health
Eval Program:	HWLQG
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	08-11-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	CSUF/McGuinn E-mailed anSPCC question regarding an on site "heat exchanger". Called him back asking to call me to discuss.
Eval Division:	Orange County Environmental Health
Eval Program:	APSA
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	09-17-2013
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	CHEMICAL INVENTORY IS INCOMPLETE OR NEEDS TO BE UPDATED
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	10-06-2016
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Due to CUPA data transition from Esubmit to CERS, facility is unable

CALIFORNIA STATE UNIVERSITY FULLERTON (Continued) **S113180209**

to update disclosure at this time. All necessary revisions to the inventory and Business Emergency Plan shall be submitted by 3/1/17

Eval Division: Fullerton City Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 10-10-2018
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: INSPECTOR COMMENTS: On site for hazardous waste re-inspection, consent to enter and conduct inspection activities was provided by Michael Wilcox, Hazardous Materials Specialist. Accompanied on inspection by Susan Berg of Orange County Environmental Health and Leo Lopez of CSUF Environmental Health and Safety. Walked throughout the facility and observed the hazardous waste storage in the Visual Arts Building and the 90 Day Storage area. Observed the following: -multiple bags of lab waste to be missing "Hazardous Waste" and site address -multiple flammable cabinets to be missing the site address Photograph of completed label provided later in the day, violation I562 has been corrected. Employee training records and plan have been provided to this agency; violation I126 has been corrected. Manifest for the hauling of hazardous waste observed on site over the 90 day accumulation time limit have been provided to this agency. Violation I125 has been corrected. [Truncated]
Eval Division: Orange County Environmental Health
Eval Program: HWLQG
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-17-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: On site for the triennial Spill Prevention Control and Countermeasure (SPCC) inspection. Permission to inspect granted by CSUF/Plotkin and Mc Quinn. The facility had the SPCC on site and available for review. Tier I SPCC. It was updated on 4-16-14. The SPCC list has the following regulated tanks/containers: (1) 2,000 gallon, aboveground storage tank (AST), diesel/gasoline, double walled AST with flapper valve OFP. (20) back up generators located throughout the campus. All generators are double walled and contain diesel. 55 gallon drums located in the auto shop. The unloading area near the AST had spill kits that were unaccessible. See violations. The facility had annual inspection logs. Inspection logs must be monthly at a minimum. See violations. The training program does not specifically address SPCC issues. See violations. The site has 2 hydraulic elevator lifts that were not listed on the SPCC and an unknown number of office hydraulic [Truncated]
Eval Division: Orange County Environmental Health
Eval Program: APSA
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 06-23-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: While on site for the Hazardous Waste inspection, it was discussed

CALIFORNIA STATE UNIVERSITY FULLERTON (Continued) **S113180209**

that the campus had a hydraulic oil release on 3-21-16 from a leaking oil line to an elevator. We discussed that the OES notification was properly made and to make sure to list the leak on the SPCC in order to be in compliance. Formal review will be made during the next scheduled SPCC inspection.

Eval Division: Orange County Environmental Health
Eval Program: APSA
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-29-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: INSPECTOR COMMENTS On site for a routine hazardous waste inspection. Consent to inspect and take any necessary photos was given by Mike Wilcox and Pearl Boelter. Walked throughout the facility. Observed hazardous waste storage areas. Facility has adequate aisle space in their 90 days storage area. Satellite containers in the visual arts building (3 containers) were not maintained closed while not in use. Spent Nitric acid containers in the silk screen studio were not properly labeled, the two 5 gallon containers did not have the word hazardous waste, generator information, content composition, physical state hazardous properties, and accumulation start date. There was a 55 gallon drum of lithium bromide waste in the 90 storage area that was not labeled properly, the drum did not have the word hazardous waste, generator information, content composition, physical state hazardous properties, and accumulation start date. There were two containers which have been [Truncated]
Eval Division: Orange County Environmental Health
Eval Program: HWLQG
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-01-2015
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Disclosure submitted via esubmit.
Eval Division: Fullerton City Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 10-24-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: CERS - Facility information was declined due to having checked the CalARP box.
Eval Division: Orange County Environmental Health
Eval Program: HWLQG
Eval Source: CERS

Enforcement Action:
Site ID: 15492
Site Name: CALIFORNIA STATE UNIVERSITY FULLERTON
Site Address: 800 N STATE COLLEGE BLVD
Site City: FULLERTON
Site Zip: 92831

CALIFORNIA STATE UNIVERSITY FULLERTON (Continued) **S113180209**

Enf Action Date:	04-07-2009
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	Orange County Environmental Health
Enf Action Program:	HWLQG
Enf Action Source:	CERS

Site ID:	15492
Site Name:	CALIFORNIA STATE UNIVERSITY FULLERTON
Site Address:	800 N STATE COLLEGE BLVD
Site City:	FULLERTON
Site Zip:	92831
Enf Action Date:	05-07-2009
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	Orange County Environmental Health
Enf Action Program:	HWLQG
Enf Action Source:	CERS

Site ID:	15492
Site Name:	CALIFORNIA STATE UNIVERSITY FULLERTON
Site Address:	800 N STATE COLLEGE BLVD
Site City:	FULLERTON
Site Zip:	92831
Enf Action Date:	08-31-2018
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	Orange County Environmental Health
Enf Action Program:	HWLQG
Enf Action Source:	CERS

Site ID:	15492
Site Name:	CALIFORNIA STATE UNIVERSITY FULLERTON
Site Address:	800 N STATE COLLEGE BLVD
Site City:	FULLERTON
Site Zip:	92831
Enf Action Date:	09-17-2013
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	Orange County Environmental Health
Enf Action Program:	HMRRP
Enf Action Source:	CERS

Coordinates:

Site ID:	15492
Facility Name:	CALIFORNIA STATE UNIVERSITY FULLERTON
Env Int Type Code:	HWG
Program ID:	10153211
Coord Name:	Not reported
Ref Point Type Desc:	Center of a facility or station.
Latitude:	33.877920
Longitude:	-117.889530

CALIFORNIA STATE UNIVERSITY FULLERTON (Continued) **S113180209**

Affiliation:

Affiliation Type Desc:	CUPA District
Entity Name:	Orange County Env Health
Entity Title:	Not reported
Affiliation Address:	1241 East Dyer RoadSuite 120
Affiliation City:	Santa Ana
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92705-5611
Affiliation Phone:	(714) 433-6000

Affiliation Type Desc:	Document Preparer
Entity Name:	Robert Denman
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Identification Signer
Entity Name:	Robert Denman
Entity Title:	Environmental Compliance Specialist
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Environmental Contact
Entity Name:	PATRICK M MCQUINN
Entity Title:	ENVIRONMENTAL COMPLIANC
Affiliation Address:	800 STATE COLLEGE BLVD T-1475
Affiliation City:	FULLERTON
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Operator
Entity Name:	California State University, Fullerton
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(657) 278-2011

Affiliation Type Desc:	Parent Corporation
Entity Name:	California State University, Fullerton
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported

CALIFORNIA STATE UNIVERSITY FULLERTON (Continued) **S113180209**

Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Environmental Contact
Entity Name:	Robert Denman
Entity Title:	Not reported
Affiliation Address:	800 N. State College Blvd.
Affiliation City:	Fullerton
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92831
Affiliation Phone:	Not reported
Affiliation Type Desc:	Legal Owner
Entity Name:	STATE OF CALIFORNIA
Entity Title:	Not reported
Affiliation Address:	400 P
Affiliation City:	Sacramento
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	95814
Affiliation Phone:	(562) 951-4000
Affiliation Type Desc:	Property Owner
Entity Name:	State of California
Entity Title:	Not reported
Affiliation Address:	400 P
Affiliation City:	Sacramento
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	95814
Affiliation Phone:	(562) 951-4000
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	P.O. Box 34080
Affiliation City:	Fullerton
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92834-9480
Affiliation Phone:	Not reported

A24 **CA CHMIRS** **S106389841**
Target Property **800 NORTH STATE COLLEGE BLVD LIBRARY CONSTRUCTION SITE** **N/A**
FULLERTON, CA 92634

Site 24 of 35 in cluster A

Actual: 250 ft.

CHMIRS:

OES Incident Number:	219
OES notification:	Not reported
OES Date:	9/19/1994
OES Time:	09:28:43 AM
Date Completed:	**Not reported**
Property Use:	Not reported

(Continued) **S106389841**

Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	YES
Waterway:	Not reported
Spill Site:	Not reported
Cleanup By:	swinerton and wahlberg contractor
Containment:	Not reported
What Happened:	Not reported
Type:	PETROLEUM
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	1994
Agency:	cal state university - fullerton
Incident Date:	1500/16sept94
Admin Agency:	Not reported
Amount:	20-40 gals
Contained:	NO
Site Type:	OTHER
E Date:	Not reported
Substance:	diesel fuel
Unknown:	Not reported
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	NO
Number of Injuries:	NO
Number of Fatalities:	NO
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported

(Continued) **S106389841**

Comments: Not reported
Description: generator tank line was rolled over by forklift causing line to break spill went to ground, absorbent was applied

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A25 Target Property **CALIFORNIA STATE UNIVERSITY** **CA SWEEPS UST** **U003784255**
800 N STATE COLLEGE BLVD **N/A**
FULLERTON, CA 92634

Site 25 of 35 in cluster A

Actual: 250 ft.

SWEEPS UST:

Status:	Active
Comp Number:	7648
Number:	6
Board Of Equalization:	Not reported
Referral Date:	07-29-92
Action Date:	09-21-92
Created Date:	12-31-88
Owner Tank Id:	1415
SWRCB Tank Id:	30-013-007648-000011
Tank Status:	A
Capacity:	2000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	W
Content:	LEADED
Number Of Tanks:	6

Status:	Active
Comp Number:	7648
Number:	6
Board Of Equalization:	Not reported
Referral Date:	07-29-92
Action Date:	09-21-92
Created Date:	12-31-88
Owner Tank Id:	1415
SWRCB Tank Id:	30-013-007648-000012
Tank Status:	A
Capacity:	2000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	W
Content:	LEADED
Number Of Tanks:	Not reported

Status:	Active
Comp Number:	7648
Number:	6
Board Of Equalization:	Not reported
Referral Date:	07-29-92
Action Date:	09-21-92
Created Date:	12-31-88
Owner Tank Id:	1415
SWRCB Tank Id:	30-013-007648-000013
Tank Status:	A
Capacity:	12000
Active Date:	Not reported

CALIFORNIA STATE UNIVERSITY (Continued) **U003784255**

Tank Use: M.V. FUEL
STG: W
Content: GASHOL
Number Of Tanks: Not reported

Status: Active
Comp Number: 7648
Number: 6
Board Of Equalization: Not reported
Referral Date: 07-29-92
Action Date: 09-21-92
Created Date: 12-31-88
Owner Tank Id: 1415
SWRCB Tank Id: 30-013-007648-000014
Tank Status: A
Capacity: 12000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: W
Content: GASHOL
Number Of Tanks: Not reported

Status: Active
Comp Number: 7648
Number: 6
Board Of Equalization: Not reported
Referral Date: 07-29-92
Action Date: 09-21-92
Created Date: 12-31-88
Owner Tank Id: 1415
SWRCB Tank Id: 30-013-007648-000015
Tank Status: A
Capacity: 40000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: W
Content: GASHOL
Number Of Tanks: Not reported

Status: Active
Comp Number: 7648
Number: 6
Board Of Equalization: Not reported
Referral Date: 07-29-92
Action Date: 09-21-92
Created Date: 12-31-88
Owner Tank Id: LIBRARY
SWRCB Tank Id: 30-013-007648-000016
Tank Status: A
Capacity: 117
Active Date: 09-21-92
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: Not reported

Status: Not reported

CALIFORNIA STATE UNIVERSITY (Continued) **U003784255**

Comp Number:	7648
Number:	Not reported
Board Of Equalization:	Not reported
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	30-013-007648-000001
Tank Status:	Not reported
Capacity:	65
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	WASTE
Content:	LEADED
Number Of Tanks:	2

Status:	Not reported
Comp Number:	7648
Number:	Not reported
Board Of Equalization:	Not reported
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	30-013-007648-000010
Tank Status:	Not reported
Capacity:	2000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	REG UNLEADED
Number Of Tanks:	Not reported

A26 Target Property **CALIFORNIA STATE UNIVERSITY**
800 N. STATE COLLEGE BLVD.
FULLERTON, CA 92834

MLTS **1008371102**
N/A

Site 26 of 35 in cluster A

Actual: 250 ft.

MLTS:

License Number:	AS-NMMSS-HQ-7
First License Date:	Not reported
License Date:	Not reported
Lic. Expiration Date:	10/31/22
Contact Name:	SUE FISHER
Contact Phone:	714-278-2507
Institution Code:	34523
Department/Bldg:	RESEARCH & INSTRUCT. SAFETY OFFICE::
States Allowing Use:	Not reported
Store Material Use:	No
Redistribution Use:	No
Incinerate Use:	No
Burial Use:	No
Last Inspection Date:	Not reported
Next Inspection Date:	Not reported
Licensee Contact:	RSO
Inspector Name:	SUE FISHER

A27 Target Property | **CSUF STUDENT RECREATION CNTR**
800 N STATE COLLEBE BLVD
FULLERTON, CA 92834 | **CA CIWQS** | **S121632357**
N/A

Site 27 of 35 in cluster A

Actual: 250 ft.

CIWQS:

Agency:	CSU Long Beach
Agency Address:	1250 Bellflower Blvd MS 5805, Long Beach, CA 90840
Place/Project Type:	Construction - Commercial
SIC/NAICS:	Not reported
Region:	8
Program:	CONSTW
Regulatory Measure Status:	Terminated
Regulatory Measure Type:	Storm water construction
Order Number:	99-08DW
WDID:	8 30C344152
NPDES Number:	CAS000002
Adoption Date:	Not reported
Effective Date:	10/25/2006
Termination Date:	06/02/2008
Expiration/Review Date:	Not reported
Design Flow:	Not reported
Major/Minor:	Not reported
Complexity:	Not reported
TTWQ:	Not reported
Enforcement Actions within 5 years:	0
Violations within 5 years:	0
Latitude:	Not reported
Longitude:	Not reported

A28 Target Property | **AUDITORIUM & FINE ARTS FAC**
800 N STATE COLLEGE BLVD
FULLERTON, CA 92831 | **CA CIWQS** | **S121621640**
N/A

Site 28 of 35 in cluster A

Actual: 250 ft.

CIWQS:

Agency:	CSU Fullerton
Agency Address:	800 N State College Blvd, Fullerton, CA 92834
Place/Project Type:	Construction
SIC/NAICS:	Not reported
Region:	8
Program:	CONSTW
Regulatory Measure Status:	Terminated
Regulatory Measure Type:	Storm water construction
Order Number:	99-08DW
WDID:	8 30C320539
NPDES Number:	CAS000002
Adoption Date:	Not reported
Effective Date:	03/15/2003
Termination Date:	03/15/2003
Expiration/Review Date:	Not reported
Design Flow:	Not reported
Major/Minor:	Not reported
Complexity:	Not reported
TTWQ:	Not reported
Enforcement Actions within 5 years:	0
Violations within 5 years:	0
Latitude:	33.878997

AUDITORIUM & FINE ARTS FAC (Continued) **S121621640**

Longitude: -117.889712

A29 Target Property **CSU FULLERTON PARKING STRUCTURE NO 4** **CA CIWQS** **S121632344**
800 N STATE COLLEGE BLVD **N/A**
FULLERTON, CA 92834

Site 29 of 35 in cluster A

Actual: 250 ft.

CIWQS:

Agency:	CSU Fullerton
Agency Address:	800 N State College Blvd, Fullerton, CA 92834
Place/Project Type:	Construction
SIC/NAICS:	Not reported
Region:	8
Program:	CONSTW
Regulatory Measure Status:	Terminated
Regulatory Measure Type:	Storm water construction
Order Number:	2009-0009-DWQ
WDID:	8 30C355297
NPDES Number:	CAS000002
Adoption Date:	Not reported
Effective Date:	05/13/2009
Termination Date:	09/13/2010
Expiration/Review Date:	Not reported
Design Flow:	Not reported
Major/Minor:	Not reported
Complexity:	Not reported
TTWQ:	Not reported
Enforcement Actions within 5 years:	0
Violations within 5 years:	0
Latitude:	Not reported
Longitude:	Not reported

A30 Target Property **CALIFORNIA STATE UNIVERSITY FULLERTON** **FINDS** **1009672479**
800 N STATE COLLEGE BLVD **ECHO** **N/A**
FULLERTON, CA 92831

Site 30 of 35 in cluster A

Actual: 250 ft.

FINDS:

Registry ID: 110025604246

Environmental Interest/Information System

California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) provides California with information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.

HAZARDOUS AIR POLLUTANT MAJOR

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and

CALIFORNIA STATE UNIVERSITY FULLERTON (Continued) **1009672479**

corrective action activities required under RCRA.

US National Pollutant Discharge Elimination System (NPDES) module of the Compliance Information System (ICIS) tracks surface water permits issued under the Clean Water Act. Under NPDES, all facilities that discharge pollutants from any point source into waters of the United States are required to obtain a permit. The permit will likely contain limits on what can be discharged, impose monitoring and reporting requirements, and include other provisions to ensure that the discharge does not adversely affect water quality.

HAZARDOUS WASTE BIENNIAL REPORTER

STATE MASTER

Registry ID: 110057119577

Environmental Interest/Information System
ELECTRIC GENERATOR

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1009672479
Registry ID:	110025604246
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110025604246

A31 **CA CHMIRS** **S105648989**
Target Property **800 NORTH STATE COLLEGE BLVD.** **N/A**
FULLERTON, CA 92834

Site 31 of 35 in cluster A

Actual: 250 ft.

CHMIRS:

OES Incident Number:	7-3987
OES notification:	10/07/1997
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported

(Continued) **S105648989**

Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	No
Waterway:	Not reported
Spill Site:	Not reported
Cleanup By:	Contractor
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	1997
Agency:	Cal State Univ. Fullerton
Incident Date:	10/7/199712:00:00 AM
Admin Agency:	Fullerton Fire Department
Amount:	Not reported
Contained:	Unknown
Site Type:	School
E Date:	Not reported
Substance:	PCB Oil
Gallons:	15
Unknown:	0
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	0
Number of Injuries:	0
Number of Fatalities:	0
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	In storage yard that is asphalt it is secured, contractor will clean

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A32 **ERNS** **2002625481**
Target Property **800 NORTH STATE COLLEGE** **N/A**
FULLERTON, CA 92834

Site 32 of 35 in cluster A

Actual: 250 ft.

Incident Commons:

NRC Report #:	625481
Description of Incident:	THE CALLER IS REPORTING A DISCHARGE OF MATERIAL FROM A STORAGE TANK WHILE FILLING FROM A TANK TRUCK. THE CAUSE WAS A STUCK VALVE.
Type of Incident:	STORAGE TANK

(Continued) **2002625481**

Incident Cause:	EQUIPMENT FAILURE
Incident Date Time:	2002-10-09 15:30:00
Incident DTG:	OCCURRED
Incident Location:	NORTH WEST QUADRANT
Loaction Address:	800 NORTH STATE COLLEGE
Location Street 1:	Not reported
Location Street 2:	Not reported
Location Nearest City:	FULLERTON
Location State:	CA
Location County:	ORANGE
Location Zip:	92834
Distance From City:	Not reported
Distance Units:	Not reported
Direction From City:	Not reported
Lat Deg:	Not reported
Lat Min:	Not reported
Lat Sec:	Not reported
Lat Quad:	Not reported
Long Deg:	Not reported
Long Min:	Not reported
Long Sec:	Not reported
Long Quad:	Not reported
Location Section:	Not reported
Location Township:	Not reported
Location range:	Not reported
Potential Range:	Not reported

Incidents:

NRC Report #:	625481
Aircraft Type:	UNKNOWN
Aircraft Model:	Not reported
Aircraft ID:	Not reported
Aircraft Fuel Capacity:	Not reported
Aircraft Fuel Capacity Units:	Not reported
Aircraft Fuel on Board:	Not reported
Aircraft Fuel on Board Units:	Not reported
Aircraft Spot Number:	Not reported
Aircraft Hanger:	Not reported
Aircraft Runway Number:	Not reported
Road Mile Marker:	Not reported
Building ID:	Not reported
Type of Fixed Object:	UNKNOWN
Power Generating Facility:	U
Generating Capacity:	Not reported
Type of Fuel:	Not reported
NPDES:	Not reported
NPDES Compliance:	U
Pipeline Type:	Not reported
DOT Regulated:	U
Pipeline Above Ground:	ABOVE
Exposed Underwater:	N
Pipeline Covered:	U
Railroad Hotline:	Not reported
Grade Crossing:	N
Location Subdivision:	Not reported
Railroad Milepost:	Not reported
Type Vehicle Involved:	Not reported
Crossing Device Type:	Not reported

(Continued) **2002625481**

Device Operational:	Y
DOT Crossing Number:	Not reported
Brake Failure:	N
Description of Tank:	SPLIT TANK GASOLINE AND DIESEL
Tank Above Ground:	ABOVE
Transportable Container:	N
Tank Regulated:	Y
Tank Regulated By:	COUNTY
Tank ID:	Not reported
Capacity of Tank:	2000
Capacity of Tank Units:	GALLON(S)
Actual Amount:	2000
Actual Amount Units:	GALLON(S)
Platform Rig Name:	Not reported
Platform Letter:	Not reported
Location Area ID:	Not reported
Location Block ID:	Not reported
OCSG Number:	Not reported
OCSP Number:	Not reported
State Lease Number:	Not reported
Pier Dock Number:	Not reported
Berth Slip Number:	Not reported
Continuous Release Type:	Not reported
Initial Continuous Release No:	Not reported
Continuous Release Permit:	Not reported
Allision:	N
Type of Structure:	Not reported
Structure Name:	Not reported
Structure Operational:	U
Airbag Deployed:	Not reported
Date Tiem Normal Service:	Not reported
Service Disruption Time:	Not reported
Service Disruption Units:	Not reported
Transit Bus Flag:	Not reported
CR Begin Date:	Not reported
CR End Date:	Not reported
CR Change Date:	Not reported
FBI Contact:	Not reported
FBI Contact Date Time:	Not reported
Sub Part C Testing Req:	XXX
Conductor Testing:	Not reported
Engineer Testing:	Not reported
Trainman Testing:	Not reported
Yard Foreman Testing:	Not reported
RCL Operator Testing:	Not reported
Brakeman Testing:	Not reported
Train Dispatcher Testing:	Not reported
Signalman Testing:	Not reported
Other Employee Testing:	Not reported
Unknown Testing:	Not reported
Passenger Handling:	Not reported
Passenger Route:	XXX
Passenger Delay:	XXX

Incident Details:

NRC Report #:	625481
Fire Involved:	N

(Continued) **2002625481**

Fire Extinguished:	U
Any Evacuations:	N
Number Evacuated:	Not reported
Who Evacuated:	Not reported
Radius of Evacuation:	Not reported
Any Injuries:	N
Number Injured:	Not reported
Number Hospitalized:	Not reported
Any Fatalities:	N
Number Fatalities:	Not reported
Any Damages:	N
Damage Amount:	Not reported
Air Corridor Closed:	N
Air Corridor Desc:	Not reported
Air Closure Time:	Not reported
Waterway Closed:	N
Waterway Desc:	Not reported
Waterway Closure Time:	Not reported
Road Closed:	N
Road Desc:	Not reported
Road Closure Time:	Not reported
Closure Direction:	Not reported
Major Artery:	N
Track Closed:	N
Track Desc:	Not reported
Track Closure Time:	Not reported
Media Interest:	NONE
Medium Desc:	LAND
Additional Medium Info:	CONCRETE
Body of Water:	Not reported
Tributary of:	Not reported
Release Secured:	Y
Estimated Duration of Release:	Not reported
Release rate:	Not reported
Desc Remedial Action:	CLEAN UP COMPLETE
State Agency on Scene:	Not reported
State Agency Report Number:	02-5470
Other Agency Notified:	Not reported
Weather Conditions:	CLEAR
Air Temperature:	85
Wind Speed:	Not reported
Wind Direction:	Not reported
Water Supply Contaminated:	U
Sheen Size:	Not reported
Sheen Color:	Not reported
Direction of Sheen Travel:	Not reported
Sheen Odor Description:	Not reported
Wave Condition:	Not reported
Current Speed:	Not reported
Current Direction:	Not reported
Water Temperature:	Not reported
Track Close Dir:	Not reported
Empl Fatality:	Not reported
Pass Fatality:	Not reported
Community Impact:	N
Wind Speed Unit:	Not reported
Employee Injuries:	Not reported

(Continued) **2002625481**

Passenger Injuries:	Not reported
Occupant Fatality:	Not reported
Current Speed Unit:	Not reported
Road Closure Units:	Not reported
Track CLosure Units:	Not reported
Sheen Size Units:	Not reported
Additional Info:	THE CALLER HAD NO ADDITIONAL INFORMATION.
State Agency Notified:	OES
Federal Agency Notified:	Not reported
nearest River Mile Marker:	Not reported
Sheen Size Length:	Not reported
Sheen Size Length Units:	Not reported
Sheen Size Width:	Not reported
Sheen Size Width Units:	Not reported
Offshore:	N
Duration Unit:	Not reported
Release Rate Unit:	Not reported
Release Rate Rate:	Not reported
Passengers Transferred:	UNK

Calls:

NRC Report #:	625481
Site ID:	2002625481
Date Time Received:	2002-10-09 20:24:17
Date Time Complete:	2002-10-09 20:30:54
Call Type:	INC
Responsible Company:	CALIFORNIA STATE UNIVERSITY
Responsible Org Type:	PRIVATE ENTERPRISE
Responsible City:	FULLERTON
Responsible State:	CA
Responsible Zip:	92834
On Behalf:	Not reported
Source:	TELEPHONE

Material Involved:

NRC Report #:	625481
Chris Code:	GAS
Case Number:	000000-00-0
UN Number:	Not reported
Amount of Material:	10
Unit of Measure:	GALLON(S)
Name of Material:	GASOLINE: AUTOMOTIVE (UNLEADED)
If Reached Water:	NO
Amount in Water:	Not reported
Unit of Measure Reach Water:	Not reported

A33 **ERNS** **2002624742**
Target Property **800 NORTH STATE COLLEGE** **N/A**
FULLERTON, CA 92834

Site 33 of 35 in cluster A

Actual: 250 ft.

Incident Commons:

NRC Report #:	624742
Description of Incident:	APPROX. 7 LITERS POTASSIUM PERMANGANATE WAS SPILLED AS IT WAS HEATED IN THE CONTAINER.
Type of Incident:	STORAGE TANK
Incident Cause:	EQUIPMENT FAILURE
Incident Date Time:	2002-10-03 09:10:00
Incident DTG:	OCCURRED
Incident Location:	LABORATORY BUILDING
Loaction Address:	800 NORTH STATE COLLEGE
Location Street 1:	Not reported
Location Street 2:	Not reported
Location Nearest City:	FULLERTON
Location State:	CA
Location County:	ORANGE
Location Zip:	92834
Distance From City:	Not reported
Distance Units:	Not reported
Direction From City:	Not reported
Lat Deg:	Not reported
Lat Min:	Not reported
Lat Sec:	Not reported
Lat Quad:	Not reported
Long Deg:	Not reported
Long Min:	Not reported
Long Sec:	Not reported
Long Quad:	Not reported
Location Section:	Not reported
Location Township:	Not reported
Location range:	Not reported
Potential Range:	Not reported

Incidents:

NRC Report #:	624742
Aircraft Type:	UNKNOWN
Aircraft Model:	Not reported
Aircraft ID:	Not reported
Aircraft Fuel Capacity:	Not reported
Aircraft Fuel Capacity Units:	Not reported
Aircraft Fuel on Board:	Not reported
Aircraft Fuel on Board Units:	Not reported
Aircraft Spot Number:	Not reported
Aircraft Hanger:	Not reported
Aircraft Runway Number:	Not reported
Road Mile Marker:	Not reported
Building ID:	Not reported
Type of Fixed Object:	UNKNOWN
Power Generating Facility:	U
Generating Capacity:	Not reported
Type of Fuel:	Not reported
NPDES:	Not reported
NPDES Compliance:	U
Pipeline Type:	Not reported
DOT Regulated:	U

(Continued) **2002624742**

Pipeline Above Ground:	ABOVE
Exposed Underwater:	N
Pipeline Covered:	U
Railroad Hotline:	Not reported
Grade Crossing:	N
Location Subdivision:	Not reported
Railroad Milepost:	Not reported
Type Vehicle Involved:	Not reported
Crossing Device Type:	Not reported
Device Operational:	Y
DOT Crossing Number:	Not reported
Brake Failure:	N
Description of Tank:	GLASS BOTTLE (LARGE)
Tank Above Ground:	ABOVE
Transportable Container:	Y
Tank Regulated:	U
Tank Regulated By:	Not reported
Tank ID:	Not reported
Capacity of Tank:	9
Capacity of Tank Units:	LITER(S)
Actual Amount:	7
Actual Amount Units:	LITER(S)
Platform Rig Name:	Not reported
Platform Letter:	Not reported
Location Area ID:	Not reported
Location Block ID:	Not reported
OCSG Number:	Not reported
OCSP Number:	Not reported
State Lease Number:	Not reported
Pier Dock Number:	Not reported
Berth Slip Number:	Not reported
Continuous Release Type:	Not reported
Initial Continuous Release No:	Not reported
Continuous Release Permit:	Not reported
Allision:	N
Type of Structure:	Not reported
Structure Name:	Not reported
Structure Operational:	U
Airbag Deployed:	Not reported
Date Tiem Normal Service:	Not reported
Service Disruption Time:	Not reported
Service Disruption Units:	Not reported
Transit Bus Flag:	Not reported
CR Begin Date:	Not reported
CR End Date:	Not reported
CR Change Date:	Not reported
FBI Contact:	Not reported
FBI Contact Date Time:	Not reported
Sub Part C Testing Req:	XXX
Conductor Testing:	Not reported
Engineer Testing:	Not reported
Trainman Testing:	Not reported
Yard Foreman Testing:	Not reported
RCL Operator Testing:	Not reported
Brakeman Testing:	Not reported
Train Dispatcher Testing:	Not reported
Signalman Testing:	Not reported

(Continued) **2002624742**

Other Employee Testing:	Not reported
Unknown Testing:	Not reported
Passenger Handling:	Not reported
Passenger Route:	XXX
Passenger Delay:	XXX

Incident Details:

NRC Report #:	624742
Fire Involved:	N
Fire Extinguished:	U
Any Evacuations:	N
Number Evacuated:	Not reported
Who Evacuated:	Not reported
Radius of Evacuation:	Not reported
Any Injuries:	N
Number Injured:	Not reported
Number Hospitalized:	Not reported
Any Fatalities:	N
Number Fatalities:	Not reported
Any Damages:	N
Damage Amount:	Not reported
Air Corridor Closed:	N
Air Corridor Desc:	Not reported
Air Closure Time:	Not reported
Waterway Closed:	N
Waterway Desc:	Not reported
Waterway Closure Time:	Not reported
Road Closed:	N
Road Desc:	Not reported
Road Closure Time:	Not reported
Closure Direction:	Not reported
Major Artery:	N
Track Closed:	N
Track Desc:	Not reported
Track Closure Time:	Not reported
Media Interest:	NONE
Medium Desc:	WATER
Additional Medium Info:	DRAIN SEWER >SANITATION FACILITY
Body of Water:	DRAIN SEWER
Tributary of:	SANITATION FACILITY IN HUNTINGTON BEACH
Release Secured:	Y
Estimated Duration of Release:	Not reported
Release rate:	Not reported
Desc Remedial Action:	CHEMISTRY TECH. BLOCKED UP DRAIN AND IS CLEANING UP SPILLAGE. HAZARDOUS WASTE CONTRACTOR (NORTH STATE ENVIRONMENTAL) WILL COMPLETE CLEANUP, ENROUTE
State Agency on Scene:	Not reported
State Agency Report Number:	NO REPORT #
Other Agency Notified:	Not reported
Weather Conditions:	Not reported
Air Temperature:	Not reported
Wind Speed:	Not reported
Wind Direction:	Not reported
Water Supply Contaminated:	N
Sheen Size:	Not reported
Sheen Color:	Not reported
Direction of Sheen Travel:	Not reported

(Continued) **2002624742**

Sheen Odor Description:	Not reported
Wave Condition:	Not reported
Current Speed:	Not reported
Current Direction:	Not reported
Water Temperature:	Not reported
Track Close Dir:	Not reported
Empl Fatality:	Not reported
Pass Fatality:	Not reported
Community Impact:	N
Wind Speed Unit:	Not reported
Employee Injuries:	Not reported
Passenger Injuries:	Not reported
Occupant Fatality:	Not reported
Current Speed Unit:	Not reported
Road Closure Units:	Not reported
Track CLosure Units:	Not reported
Sheen Size Units:	Not reported
Additional Info:	WILL NOTIFY OES, LOCAL CUPA (CERTIFIED UNIFIED PERMITTING AUTHORITY), SANITATION DISTRICT.,
State Agency Notified:	Not reported
Federal Agency Notified:	Not reported
nearest River Mile Marker:	Not reported
Sheen Size Length:	Not reported
Sheen Size Length Units:	Not reported
Sheen Size Width:	Not reported
Sheen Size Width Units:	Not reported
Offshore:	N
Duration Unit:	Not reported
Release Rate Unit:	Not reported
Release Rate Rate:	Not reported
Passengers Transferred:	UNK

Calls:

NRC Report #:	624742
Site ID:	2002624742
Date Time Received:	2002-10-03 12:37:25
Date Time Complete:	2002-10-03 12:49:08
Call Type:	INC
Responsible Company:	CALIFORNIA STATE UNIVERSITY
Responsible Org Type:	PRIVATE ENTERPRISE
Responsible City:	FULLERTON
Responsible State:	CA
Responsible Zip:	92834
On Behalf:	Not reported
Source:	TELEPHONE

Material Involved:

NRC Report #:	624742
Chris Code:	PTP
Case Number:	007722-64-7
UN Number:	Not reported
Amount of Material:	7
Unit of Measure:	LITER(S)
Name of Material:	POTASSIUM PERMANGANATE
If Reached Water:	YES
Amount in Water:	1

(Continued) **2002624742**

Unit of Measure Reach Water: LITER(S)

A34
Target Property **800 NORTH STATE COLLEGE**
FULLERTON, CA 92834

ERNS **2002621553**
N/A

Site 34 of 35 in cluster A

Actual: 250 ft.

Incident Commons:

NRC Report #:	621553
Description of Incident:	THE CALLER IS REPORTING A SPILL OF GASOILNE. THE SOURCE AND CAUSE IS UNKNOWN.
Type of Incident:	FIXED
Incident Cause:	UNKNOWN
Incident Date Time:	2002-08-30 11:30:00
Incident DTG:	DISCOVERED
Incident Location:	Not reported
Loaction Address:	800 NORTH STATE COLLEGE
Location Street 1:	Not reported
Location Street 2:	Not reported
Location Nearest City:	FULLERTON
Location State:	CA
Location County:	ORANGE
Location Zip:	92834
Distance From City:	Not reported
Distance Units:	Not reported
Direction From City:	Not reported
Lat Deg:	Not reported
Lat Min:	Not reported
Lat Sec:	Not reported
Lat Quad:	Not reported
Long Deg:	Not reported
Long Min:	Not reported
Long Sec:	Not reported
Long Quad:	Not reported
Location Section:	Not reported
Location Township:	Not reported
Location range:	Not reported
Potential Range:	Not reported

Incidents:

NRC Report #:	621553
Aircraft Type:	UNKNOWN
Aircraft Model:	Not reported
Aircraft ID:	Not reported
Aircraft Fuel Capacity:	Not reported
Aircraft Fuel Capacity Units:	Not reported
Aircraft Fuel on Board:	Not reported
Aircraft Fuel on Board Units:	Not reported
Aircraft Spot Number:	Not reported
Aircraft Hanger:	Not reported
Aircraft Runway Number:	Not reported
Road Mile Marker:	Not reported
Building ID:	Not reported
Type of Fixed Object:	OTHER
Power Generating Facility:	N
Generating Capacity:	Not reported

(Continued) **2002621553**

Type of Fuel:	Not reported
NPDES:	Not reported
NPDES Compliance:	U
Pipeline Type:	Not reported
DOT Regulated:	U
Pipeline Above Ground:	ABOVE
Exposed Underwater:	N
Pipeline Covered:	U
Railroad Hotline:	Not reported
Grade Crossing:	N
Location Subdivision:	Not reported
Railroad Milepost:	Not reported
Type Vehicle Involved:	Not reported
Crossing Device Type:	Not reported
Device Operational:	Y
DOT Crossing Number:	Not reported
Brake Failure:	N
Description of Tank:	Not reported
Tank Above Ground:	ABOVE
Transportable Container:	U
Tank Regulated:	U
Tank Regulated By:	Not reported
Tank ID:	Not reported
Capacity of Tank:	Not reported
Capacity of Tank Units:	Not reported
Actual Amount:	Not reported
Actual Amount Units:	Not reported
Platform Rig Name:	Not reported
Platform Letter:	Not reported
Location Area ID:	Not reported
Location Block ID:	Not reported
OCSG Number:	Not reported
OCSP Number:	Not reported
State Lease Number:	Not reported
Pier Dock Number:	Not reported
Berth Slip Number:	Not reported
Continuous Release Type:	Not reported
Initial Continuous Release No:	Not reported
Continuous Release Permit:	Not reported
Allision:	N
Type of Structure:	Not reported
Structure Name:	Not reported
Structure Operational:	U
Airbag Deployed:	Not reported
Date Tiem Normal Service:	Not reported
Service Disruption Time:	Not reported
Service Disruption Units:	Not reported
Transit Bus Flag:	Not reported
CR Begin Date:	Not reported
CR End Date:	Not reported
CR Change Date:	Not reported
FBI Contact:	Not reported
FBI Contact Date Time:	Not reported
Sub Part C Testing Req:	XXX
Conductor Testing:	Not reported
Engineer Testing:	Not reported
Trainman Testing:	Not reported

(Continued) **2002621553**

Yard Foreman Testing:	Not reported
RCL Operator Testing:	Not reported
Brakeman Testing:	Not reported
Train Dispatcher Testing:	Not reported
Signalman Testing:	Not reported
Other Employee Testing:	Not reported
Unknown Testing:	Not reported
Passenger Handling:	Not reported
Passenger Route:	XXX
Passenger Delay:	XXX

Incident Details:

NRC Report #:	621553
Fire Involved:	N
Fire Extinguished:	U
Any Evacuations:	N
Number Evacuated:	Not reported
Who Evacuated:	Not reported
Radius of Evacuation:	Not reported
Any Injuries:	N
Number Injured:	Not reported
Number Hospitalized:	Not reported
Any Fatalities:	N
Number Fatalities:	Not reported
Any Damages:	N
Damage Amount:	Not reported
Air Corridor Closed:	N
Air Corridor Desc:	Not reported
Air Closure Time:	Not reported
Waterway Closed:	N
Waterway Desc:	Not reported
Waterway Closure Time:	Not reported
Road Closed:	N
Road Desc:	Not reported
Road Closure Time:	Not reported
Closure Direction:	Not reported
Major Artery:	N
Track Closed:	N
Track Desc:	Not reported
Track Closure Time:	Not reported
Media Interest:	NONE
Medium Desc:	LAND
Additional Medium Info:	SOIL
Body of Water:	Not reported
Tributary of:	Not reported
Release Secured:	Y
Estimated Duration of Release:	Not reported
Release rate:	Not reported
Desc Remedial Action:	CONTRACTOR HAS BEEN HIRED
State Agency on Scene:	Not reported
State Agency Report Number:	NO REPORT #
Other Agency Notified:	Not reported
Weather Conditions:	CLEAR
Air Temperature:	Not reported
Wind Speed:	Not reported
Wind Direction:	Not reported
Water Supply Contaminated:	U

(Continued) **2002621553**

Sheen Size:	Not reported
Sheen Color:	Not reported
Direction of Sheen Travel:	Not reported
Sheen Odor Description:	Not reported
Wave Condition:	Not reported
Current Speed:	Not reported
Current Direction:	Not reported
Water Temperature:	Not reported
Track Close Dir:	Not reported
Empl Fatality:	Not reported
Pass Fatality:	Not reported
Community Impact:	N
Wind Speed Unit:	Not reported
Employee Injuries:	Not reported
Passenger Injuries:	Not reported
Occupant Fatality:	Not reported
Current Speed Unit:	Not reported
Road Closure Units:	Not reported
Track CLosure Units:	Not reported
Sheen Size Units:	Not reported
Additional Info:	THE CALLER HAD NO ADDITIONAL INFORMATION.
State Agency Notified:	OES
Federal Agency Notified:	Not reported
nearest River Mile Marker:	Not reported
Sheen Size Length:	Not reported
Sheen Size Length Units:	Not reported
Sheen Size Width:	Not reported
Sheen Size Width Units:	Not reported
Offshore:	N
Duration Unit:	Not reported
Release Rate Unit:	Not reported
Release Rate Rate:	Not reported
Passengers Transferred:	UNK

Calls:

NRC Report #:	621553
Site ID:	2002621553
Date Time Received:	2002-08-30 16:10:30
Date Time Complete:	2002-08-30 16:12:40
Call Type:	INC
Responsible Company:	CALIFORNIA STATE UNIVERSITY
Responsible Org Type:	PRIVATE ENTERPRISE
Responsible City:	FULLERTON
Responsible State:	CA
Responsible Zip:	92834
On Behalf:	Not reported
Source:	TELEPHONE

Material Involved:

NRC Report #:	621553
Chris Code:	GAS
Case Number:	000000-00-0
UN Number:	Not reported
Amount of Material:	0
Unit of Measure:	UNKNOWN AMOUNT
Name of Material:	GASOLINE: AUTOMOTIVE (UNLEADED)

(Continued) **2002621553**

If Reached Water: NO
Amount in Water: Not reported
Unit of Measure Reach Water: Not reported

A35
Target Property

ERNS **2001584351**
N/A

800 NORTH STATE COLLEGE
FULLERTON, CA

Site 35 of 35 in cluster A

Actual: 250 ft.

Incident Commons:

NRC Report #:	584351
Description of Incident:	THE MATERIAL RELEASED FROM A FUEL TANK OF A PASSENGER CAR DUE TO BREACH OF THE FUEL TANK.
Type of Incident:	MOBILE
Incident Cause:	EQUIPMENT FAILURE
Incident Date Time:	2001-10-25 11:00:00
Incident DTG:	OCCURRED
Incident Location:	Not reported
Loaction Address:	800 NORTH STATE COLLEGE
Location Street 1:	Not reported
Location Street 2:	Not reported
Location Nearest City:	FULLERTON
Location State:	CA
Location County:	ORANGE
Location Zip:	Not reported
Distance From City:	Not reported
Distance Units:	Not reported
Direction From City:	Not reported
Lat Deg:	Not reported
Lat Min:	Not reported
Lat Sec:	Not reported
Lat Quad:	Not reported
Long Deg:	Not reported
Long Min:	Not reported
Long Sec:	Not reported
Long Quad:	Not reported
Location Section:	Not reported
Location Township:	Not reported
Location range:	Not reported
Potential Range:	Not reported

Incidents:

NRC Report #:	584351
Aircraft Type:	UNKNOWN
Aircraft Model:	Not reported
Aircraft ID:	Not reported
Aircraft Fuel Capacity:	Not reported
Aircraft Fuel Capacity Units:	Not reported
Aircraft Fuel on Board:	Not reported
Aircraft Fuel on Board Units:	Not reported
Aircraft Spot Number:	Not reported
Aircraft Hanger:	Not reported
Aircraft Runway Number:	Not reported
Road Mile Marker:	Not reported
Building ID:	Not reported
Type of Fixed Object:	UNKNOWN

(Continued) **2001584351**

Power Generating Facility:	Not reported
Generating Capacity:	Not reported
Type of Fuel:	Not reported
NPDES:	Not reported
NPDES Compliance:	Not reported
Pipeline Type:	Not reported
DOT Regulated:	Not reported
Pipeline Above Ground:	Not reported
Exposed Underwater:	Not reported
Pipeline Covered:	Not reported
Railroad Hotline:	Not reported
Grade Crossing:	Not reported
Location Subdivision:	Not reported
Railroad Milepost:	Not reported
Type Vehicle Involved:	Not reported
Crossing Device Type:	Not reported
Device Operational:	Not reported
DOT Crossing Number:	Not reported
Brake Failure:	Not reported
Description of Tank:	Not reported
Tank Above Ground:	Not reported
Transportable Container:	Not reported
Tank Regulated:	Not reported
Tank Regulated By:	Not reported
Tank ID:	Not reported
Capacity of Tank:	Not reported
Capacity of Tank Units:	Not reported
Actual Amount:	Not reported
Actual Amount Units:	Not reported
Platform Rig Name:	Not reported
Platform Letter:	Not reported
Location Area ID:	Not reported
Location Block ID:	Not reported
OCSG Number:	Not reported
OCSP Number:	Not reported
State Lease Number:	Not reported
Pier Dock Number:	Not reported
Berth Slip Number:	Not reported
Continuous Release Type:	Not reported
Initial Continuous Release No:	Not reported
Continuous Release Permit:	Not reported
Allision:	Not reported
Type of Structure:	Not reported
Structure Name:	Not reported
Structure Operational:	Not reported
Airbag Deployed:	Not reported
Date Tiem Normal Service:	Not reported
Service Disruption Time:	Not reported
Service Disruption Units:	Not reported
Transit Bus Flag:	Not reported
CR Begin Date:	Not reported
CR End Date:	Not reported
CR Change Date:	Not reported
FBI Contact:	Not reported
FBI Contact Date Time:	Not reported
Sub Part C Testing Req:	XXX
Conductor Testing:	Not reported

(Continued) **2001584351**

Engineer Testing:	Not reported
Trainman Testing:	Not reported
Yard Foreman Testing:	Not reported
RCL Operator Testing:	Not reported
Brakeman Testing:	Not reported
Train Dispatcher Testing:	Not reported
Signalman Testing:	Not reported
Other Employee Testing:	Not reported
Unknown Testing:	Not reported
Passenger Handling:	Not reported
Passenger Route:	XXX
Passenger Delay:	XXX

Incident Details:

NRC Report #:	584351
Fire Involved:	N
Fire Extinguished:	U
Any Evacuations:	N
Number Evacuated:	Not reported
Who Evacuated:	Not reported
Radius of Evacuation:	Not reported
Any Injuries:	N
Number Injured:	Not reported
Number Hospitalized:	Not reported
Any Fatalities:	N
Number Fatalities:	Not reported
Any Damages:	N
Damage Amount:	Not reported
Air Corridor Closed:	N
Air Corridor Desc:	Not reported
Air Closure Time:	Not reported
Waterway Closed:	N
Waterway Desc:	Not reported
Waterway Closure Time:	Not reported
Road Closed:	N
Road Desc:	Not reported
Road Closure Time:	Not reported
Closure Direction:	Not reported
Major Artery:	N
Track Closed:	N
Track Desc:	Not reported
Track Closure Time:	Not reported
Media Interest:	NONE
Medium Desc:	SOIL
Additional Medium Info:	Not reported
Body of Water:	Not reported
Tributary of:	Not reported
Release Secured:	Y
Estimated Duration of Release:	Not reported
Release rate:	Not reported
Desc Remedial Action:	EXCAVATED SOIL WILL DISPOSE CONTAMINATED SOIL
State Agency on Scene:	Not reported
State Agency Report Number:	01-6160
Other Agency Notified:	Not reported
Weather Conditions:	CLEAR
Air Temperature:	84
Wind Speed:	Not reported

(Continued) **2001584351**

Wind Direction:	Not reported
Water Supply Contaminated:	U
Sheen Size:	Not reported
Sheen Color:	Not reported
Direction of Sheen Travel:	Not reported
Sheen Odor Description:	Not reported
Wave Condition:	Not reported
Current Speed:	Not reported
Current Direction:	Not reported
Water Temperature:	Not reported
Track Close Dir:	Not reported
Empl Fatality:	Not reported
Pass Fatality:	Not reported
Community Impact:	N
Wind Speed Unit:	Not reported
Employee Injuries:	Not reported
Passenger Injuries:	Not reported
Occupant Fatality:	Not reported
Current Speed Unit:	Not reported
Road Closure Units:	Not reported
Track CLosure Units:	Not reported
Sheen Size Units:	Not reported
Additional Info:	THE CALLER WILL NOTIFY DEPT OF TOXIC SUBSTANCE CONTROL.
State Agency Notified:	CA OES
Federal Agency Notified:	Not reported
nearest River Mile Marker:	Not reported
Sheen Size Length:	Not reported
Sheen Size Length Units:	Not reported
Sheen Size Width:	Not reported
Sheen Size Width Units:	Not reported
Offshore:	N
Duration Unit:	Not reported
Release Rate Unit:	Not reported
Release Rate Rate:	Not reported
Passengers Transferred:	UNK

Mobile Detail:

NRC Report #:	584351
Vehicle Number:	UNKNOWN
Trailer Number:	Not reported
Vehicle Own Fuel Capacity:	UNKNOWN
Cargo Capacity:	Not reported
Amount of Cargo on Board:	Not reported
Hazmat Carrier:	N
Carrier Licensed:	N
Noncompliance With Hazmat:	N
Mobile Type:	PASSENGER CAR
Cargo Capacity Units:	Not reported
Amount of Cargo on Board Units:	Not reported
Vehicle Year:	Not reported
Vehicle Make:	Not reported
Vehicle Model:	Not reported

Calls:

NRC Report #:	584351
Site ID:	2001584351

(Continued) **2001584351**

Date Time Received:	2001-10-25 17:26:46
Date Time Complete:	2001-10-25 17:32:04
Call Type:	INC
Responsible Company:	CALIFORNIA STATE UNIVERSITY
Responsible Org Type:	PRIVATE ENTERPRISE
Responsible City:	FULLERTON
Responsible State:	CA
Responsible Zip:	92834
On Behalf:	Y
Source:	TELEPHONE

Material Involved:

NRC Report #:	584351
Chris Code:	GAS
Case Number:	000000-00-0
UN Number:	Not reported
Amount of Material:	13
Unit of Measure:	GALLON(S)
Name of Material:	GASOLINE: AUTOMOTIVE (UNLEADED)
If Reached Water:	NO
Amount in Water:	Not reported
Unit of Measure Reach Water:	Not reported

B36 **THE MARRIOTT HOTEL AND RESORT** **CA HAZNET** **S113773569**
2701 NUTWOOD AVE **N/A**
< 1/8 **FULLERTON, CA 92831**
1 ft.

Site 1 of 2 in cluster B

Relative: **Lower**
Actual: **239 ft.**

HAZNET:

Site Name:	THE MARRIOTT HOTEL AND RESORT
Year:	2012
GEPAID:	CAC002685967
Contact:	BILL MACGREGOR
Telephone:	7144766468
Mailing Name:	Not reported
Mailing Address:	2701 NUTWOOD AVE
Mailing City,St,Zip:	FULLERTON, CA 928315400
Gen County:	Orange
TSD EPA ID:	CAD981696420
TSD County:	Los Angeles
Tons:	0.042
CA Waste Code:	135-Unspecified aqueous solution
Method:	H141-Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County:	Orange

C37 **CAL STATE UNIV FULLERTON** **CA HIST CORTESE** **S102426047**
880 STATE COLLEGE **N/A**
< 1/8 **FULLERTON, CA 92634**
1 ft.

Site 1 of 2 in cluster C

Relative: **Lower**
Actual: **237 ft.**

HIST CORTESE:

Region:	CORTESE
Facility County Code:	30
Reg By:	LTNKA
Reg Id:	083000167T

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38 **CALIF STATE UNIVERSITY, FULLERTON** **CA LUST** **S102428516**
800 STATE COLLEGE **CA HIST CORTESE** **N/A**
< 1/8 **FULLERTON, CA 92634** **CA CERS**
1 ft.

Relative: **Higher**
Actual: **252 ft.**

LUST REG 8:

Region:	8
County:	Orange
Regional Board:	Santa Ana Region
Facility Status:	Case Closed
Case Number:	083000167T
Local Case Num:	87UT128
Case Type:	Soil only
Substance:	Gasoline
Qty Leaked:	0
Abate Method:	Not reported
Cross Street:	Not reported
Enf Type:	Not reported
Funding:	Not reported
How Discovered:	Tank Closure
How Stopped:	Close Tank
Leak Cause:	Unknown
Leak Source:	Unknown
Global ID:	T0605900127
How Stopped Date:	9/9/9999
Enter Date:	Not reported
Date Confirmation of Leak Began:	Not reported
Date Preliminary Assessment Began:	Not reported
Discover Date:	8/29/1987
Enforcement Date:	Not reported
Close Date:	7/20/1988
Date Prelim Assessment Workplan Submitted:	Not reported
Date Pollution Characterization Began:	Not reported
Date Remediation Plan Submitted:	Not reported
Date Remedial Action Underway:	Not reported
Date Post Remedial Action Monitoring:	Not reported
Enter Date:	Not reported
GW Qualifies:	Not reported
Soil Qualifies:	Not reported
Operator:	Not reported
Facility Contact:	Not reported
Interim:	Not reported
Oversite Program:	LUST
Latitude:	33.8781057
Longitude:	-117.8894846
MTBE Date:	Not reported
Max MTBE GW:	Not reported
MTBE Concentration:	0

CALIF STATE UNIVERSITY, FULLERTON (Continued) **S102428516**

Max MTBE Soil:	Not reported
MTBE Fuel:	1
MTBE Tested:	Site NOT Tested for MTBE.Includes Unknown and Not Analyzed.
MTBE Class:	*
Staff:	PAH
Staff Initials:	WJ
Lead Agency:	Local Agency
Local Agency:	30000L
Hydr Basin #:	Not reported
Beneficial:	MUN
Priority:	Not reported
Cleanup Fund Id:	Not reported
Work Suspended:	Not reported

Summary: Not reported

Region:	8
County:	Orange
Regional Board:	Santa Ana Region
Facility Status:	Case Closed
Case Number:	083001992T
Local Case Num:	Not reported
Case Type:	Soil only
Substance:	Unleaded Gasoline
Qty Leaked:	Not reported
Abate Method:	Not reported
Cross Street:	57 FWY
Enf Type:	CLOS
Funding:	Not reported
How Discovered:	Tank Test
How Stopped:	Not reported
Leak Cause:	UNK
Leak Source:	Tank
Global ID:	T0605901490
How Stopped Date:	11/27/1991
Enter Date:	12/19/1991
Date Confirmation of Leak Began:	Not reported
Date Preliminary Assessment Began:	Not reported
Discover Date:	11/27/1991
Enforcement Date:	Not reported
Close Date:	8/29/1994
Date Prelim Assessment Workplan Submitted:	12/19/1991
Date Pollution Characterization Began:	Not reported
Date Remediation Plan Submitted:	Not reported
Date Remedial Action Underway:	Not reported
Date Post Remedial Action Monitoring:	Not reported
Enter Date:	12/19/1991
GW Qualifies:	Not reported
Soil Qualifies:	Not reported
Operator:	Not reported
Facility Contact:	Not reported
Interim:	Not reported
Oversite Program:	LUST
Latitude:	33.8776927
Longitude:	-117.8894706
MTBE Date:	Not reported
Max MTBE GW:	Not reported
MTBE Concentration:	0

CALIF STATE UNIVERSITY, FULLERTON (Continued) **S102428516**

Max MTBE Soil:	Not reported
MTBE Fuel:	1
MTBE Tested:	Site NOT Tested for MTBE.Includes Unknown and Not Analyzed.
MTBE Class:	*
Staff:	RS
Staff Initials:	SRL
Lead Agency:	Local Agency
Local Agency:	30013
Hydr Basin #:	COASTAL PLAIN OF ORA
Beneficial:	Not reported
Priority:	Not reported
Cleanup Fund Id:	Not reported
Work Suspended:	Not reported
Summary:	Not reported

Region:	8
County:	Orange
Regional Board:	Santa Ana Region
Facility Status:	Case Closed
Case Number:	Not reported
Local Case Num:	89UT192
Case Type:	Soil only
Substance:	Regular Gasoline
Qty Leaked:	0
Abate Method:	Not reported
Cross Street:	Not reported
Enf Type:	Not reported
Funding:	Not reported
How Discovered:	Tank Closure
How Stopped:	Close Tank
Leak Cause:	Unknown
Leak Source:	Unknown
Global ID:	T0605938267
How Stopped Date:	9/9/9999
Enter Date:	Not reported
Date Confirmation of Leak Began:	Not reported
Date Preliminary Assessment Began:	Not reported
Discover Date:	10/30/1989
Enforcement Date:	Not reported
Close Date:	5/8/1990
Date Prelim Assessment Workplan Submitted:	Not reported
Date Pollution Characterization Began:	Not reported
Date Remediation Plan Submitted:	Not reported
Date Remedial Action Underway:	Not reported
Date Post Remedial Action Monitoring:	Not reported
Enter Date:	Not reported
GW Qualifies:	Not reported
Soil Qualifies:	Not reported
Operator:	Not reported
Facility Contact:	Not reported
Interim:	Not reported
Oversite Program:	LUST
Latitude:	Not reported
Longitude:	Not reported
MTBE Date:	Not reported
Max MTBE GW:	Not reported
MTBE Concentration:	0

CALIF STATE UNIVERSITY, FULLERTON (Continued) **S102428516**

Max MTBE Soil:	Not reported
MTBE Fuel:	1
MTBE Tested:	Site NOT Tested for MTBE.Includes Unknown and Not Analyzed.
MTBE Class:	*
Staff:	RS
Staff Initials:	WJ
Lead Agency:	Local Agency
Local Agency:	30000L
Hydr Basin #:	Not reported
Beneficial:	MUN
Priority:	Not reported
Cleanup Fund Id:	Not reported
Work Suspended:	Not reported
Summary:	Not reported

HIST CORTESE:

Region:	CORTESE
Facility County Code:	30
Reg By:	LTNKA
Reg Id:	083001992T

CERS TANKS:

Site ID:	243448
CERS ID:	T0605938267
Site Name:	CALIF STATE UNIVERSITY, FULLERTON
CERS Description:	Leaking Underground Storage Tank Cleanup Site

Affiliation:

Affiliation Type Desc:	Local Agency Caseworker
Entity Name:	ANTHONY MARTINEZ - ORANGE COUNTY LOP
Entity Title:	Not reported
Affiliation Address:	1241 E. DYER ROAD SUITE 120
Affiliation City:	SANTA ANA
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	7144336011

Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	ROSE SCOTT - SANTA ANA RWQCB (REGION 8)
Entity Title:	Not reported
Affiliation Address:	3737 MAIN STREET, SUITE 500
Affiliation City:	RIVERSIDE
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	9513206375

B39 **MARRIOTT HOTEL** **CA EMI** **S106831371**
2701 E NUTWOOD AVE **CA CERS** **N/A**
< 1/8 **FULLERTON, CA 92831**
1 ft.

Site 2 of 2 in cluster B

Relative:
Lower

Actual:
239 ft.

EMI:

Year:	1990
County Code:	30
Air Basin:	SC
Facility ID:	74293
Air District Name:	SC
SIC Code:	7011
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

CERS TANKS:

Site ID:	381815
CERS ID:	10543903
Site Name:	MARRIOTT HOTEL
CERS Description:	Chemical Storage Facilities

Violations:

Site ID:	381815
Site Name:	MARRIOTT HOTEL
Violation Date:	04-11-2017
Citation:	HSC 6.95 25508.2 - California Health and Safety Code, Chapter 6.95, Section(s) 25508.2
Violation Description:	Failure to annually review and electronically certify that the business plan is complete and accurate on or before the annual due date.
Violation Notes:	Returned to compliance on 06/19/2017.
Violation Division:	Fullerton City Fire Department
Violation Program:	HMRRP
Violation Source:	CERS

Site ID:	381815
Site Name:	MARRIOTT HOTEL
Violation Date:	04-11-2017
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes:	Returned to compliance on 06/19/2017. facility shall add or reduce quantity of r134a.
Violation Division:	Fullerton City Fire Department
Violation Program:	HMRRP
Violation Source:	CERS

Site ID:	381815

MARRIOTT HOTEL (Continued) **S106831371**

Site Name: MARRIOTT HOTEL
Violation Date: 03-10-2016
Citation: HSC 6.95 25508.2 - California Health and Safety Code, Chapter 6.95, Section(s) 25508.2
Violation Description: Failure to annually review and electronically certify that the business plan is complete, accurate, and up-to-date.
Violation Notes: Returned to compliance on 09/13/2016. 3-10-16 failed to update annually. 9-13-16 Updated disclosure accepted.
Violation Division: Fullerton City Fire Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 381815
Site Name: MARRIOTT HOTEL
Violation Date: 04-11-2017
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to establish and electronically submit an adequate emergency response plan and procedures for a release or threatened release of a hazardous material.
Violation Notes: Returned to compliance on 06/19/2017. facility shall utilize cers-provided emergency response/contingency plan template.
Violation Division: Fullerton City Fire Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 381815
Site Name: MARRIOTT HOTEL
Violation Date: 01-27-2014
Citation: HSC 6.95 25505(a) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a)
Violation Description: Owner/Operator failed to complete and/or submit a Hazardous Materials Business Plan when storing hazardous materials at or above the thresholds quantities of 55 gallons/500 lbs/200 cubic feet.
Violation Notes: Not reported
Violation Division: Orange County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-10-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: failed to update annually
Eval Division: Fullerton City Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-11-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Fullerton City Fire Department
Eval Program: HMRRP
Eval Source: CERS

MARRIOTT HOTEL (Continued) **S106831371**

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	01-27-2014
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	VIOLATIONS NOTED
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS

Enforcement Action:

Site ID:	381815
Site Name:	MARRIOTT HOTEL
Site Address:	2701 E NUTWOOD AVE
Site City:	FULLERTON
Site Zip:	92831
Enf Action Date:	01-27-2014
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	Orange County Environmental Health
Enf Action Program:	HMRRP
Enf Action Source:	CERS

Affiliation:

Affiliation Type Desc:	Document Preparer
Entity Name:	Dianne Floryan
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	2701 Nutwood Av.
Affiliation City:	Fullerton
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92831
Affiliation Phone:	Not reported

Affiliation Type Desc:	Operator
Entity Name:	RONALD GUERRERO
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(909) 994-4660

Affiliation Type Desc:	Parent Corporation
Entity Name:	MARRIOTT HOTEL

MARRIOTT HOTEL (Continued) **S106831371**

Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	CUPA District
Entity Name:	Orange County Env Health
Entity Title:	Not reported
Affiliation Address:	1241 East Dyer RoadSuite 120
Affiliation City:	Santa Ana
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92705-5611
Affiliation Phone:	(714) 433-6000

Affiliation Type Desc:	Environmental Contact
Entity Name:	RONALD GUERRERO
Entity Title:	Not reported
Affiliation Address:	2701 E NUTWOOD AVE
Affiliation City:	FULLERTON
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92831
Affiliation Phone:	Not reported

Affiliation Type Desc:	Identification Signer
Entity Name:	Dianne Floryan
Entity Title:	General MaNAGER
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Legal Owner
Entity Name:	MARRIOTT
Entity Title:	Not reported
Affiliation Address:	2701 E NUTWOOD AVE
Affiliation City:	FULLERTON
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92831
Affiliation Phone:	(714) 447-7800

C40 **CAL STATE UNIV FULLERTON** **CA RGA LUST** **S114589376**
880 NORTH STATE COLLEGE BLVD **N/A**
< 1/8 **FULLERTON, CA**
1 ft.

Site 2 of 2 in cluster C

Relative: **Lower**
Actual: **237 ft.**

RGA LUST:

1992 CAL STATE UNIV FULLERTON 880 NORTH STATE COLLEGE BLVD

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41 **WINONICS** **CA CPS-SLIC** **S106487018**
1257 STATE COLLEGE BOULEVARD S **CA CERS** **N/A**
< 1/8 **FULLERTON, CA**
1 ft.

Relative: **Lower**
Actual: **245 ft.**

CPS-SLIC:

Site Name:	WINONICS
Region:	STATE
Facility Status:	**Completed - Case Closed**
Status Date:	12/04/1991
Global Id:	SLT8R2714078
Lead Agency:	SANTA ANA RWQCB (REGION 8)
Lead Agency Case Number:	Not reported
Latitude:	33.882512
Longitude:	-117.888782
Case Type:	Cleanup Program Site
Case Worker:	Not reported
Local Agency:	Not reported
RB Case Number:	SLT8R271
File Location:	Not reported
Potential Media Affected:	Not reported
Potential Contaminants of Concern:	Not reported
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

CERS TANKS:

Site ID:	221681
CERS ID:	SLT8R2714078
Site Name:	WINONICS
CERS Description:	Cleanup Program Site

D42 **CALIF STATE UNIVERSITYNA FULLERTON** **FINDS** **1023306556**
800 STATE COLLEGE **N/A**
< 1/8 **FULLERTON, CA 92634**
1 ft.

Site 1 of 2 in cluster D

Relative: **Lower**
Actual: **238 ft.**

FINDS:

Registry ID: 110065990814

Environmental Interest/Information System
STATE MASTER

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

D43 **CAL STATE FULLERTON** **FINDS** **1023327848**
800 STATE COLLEGE **N/A**
< 1/8 **FULLERTON, CA 92634**
1 ft.

Site 2 of 2 in cluster D

Relative: **Lower**
Actual: **238 ft.**

FINDS:

Registry ID: 110066221984

Environmental Interest/Information System
STATE MASTER

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

E44 **CA CHMIRS** **S105673927**
MCCARTHY HALL/800 N. STATE COLLEGE BLVD. **N/A**
< 1/8 **FULLERTON, CA 92834**
1 ft.

Site 1 of 2 in cluster E

Relative: **Higher**
Actual: **261 ft.**

CHMIRS:

OES Incident Number:	1-3473
OES notification:	06/15/2001
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	No
Waterway:	Not reported
Spill Site:	Not reported
Cleanup By:	Contractor
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported

(Continued) **S105673927**

Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	2001
Agency:	CSU Fullerton
Incident Date:	6/14/200112:00:00 AM
Admin Agency:	Fullerton Fire Department
Amount:	Not reported
Contained:	Yes
Site Type:	School
E Date:	Not reported
Substance:	Mercury
Unknown:	0.000000
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	0
Number of Injuries:	0
Number of Fatalities:	0
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	During the move of equipment within a building, a piece of equipment fell over and mercury spilled out of the equipment. It has been cleaned up.

E45 **DEREK J DOBBS** **CA PEST LIC** **S117638126**
1900 ASSOCIATED RD **N/A**
< 1/8 **FULLERTON, CA 92831**
1 ft.

Site 2 of 2 in cluster E

Relative: **Higher**
Actual: **262 ft.**

PEST LIC:

Facility Type:	QAC
Categories:	B
License No:	142172
Issued or Renewed Date:	01/01/2018
Expiration Date:	12/31/2019
Facility Type:	QAC
Categories:	B
License No:	142274
Issued or Renewed Date:	01/01/2019
Expiration Date:	12/31/2020
Facility Type:	QAC
Categories:	B
License No:	144216
Issued or Renewed Date:	01/01/2019
Expiration Date:	12/31/2020
Facility Type:	QAC

DEREK J DOBBS (Continued) **S117638126**

Categories:	B
License No:	144217
Issued or Renewed Date:	01/01/2018
Expiration Date:	12/31/2019

Facility Type:	QAC
Categories:	B
License No:	147860
Issued or Renewed Date:	01/09/2019
Expiration Date:	12/31/2020

Facility Type:	QAL
Categories:	B
License No:	140872
Issued or Renewed Date:	02/10/2018
Expiration Date:	12/31/2019

F46 **FULLERVALE ASSOCIATES** **CA HAZNET** **S112877615**
2600 EAST NUTWOOD AVENUE **N/A**
< 1/8 **FULLERTON, CA 92631**
1 ft.

Site 1 of 7 in cluster F

Relative: **Lower**
Actual: **234 ft.**

HAZNET:

Site Name:	FULLERVALE ASSOCIATES
Year:	1997
GEPAID:	CAC001247496
Contact:	DEBORAH RHODES
Telephone:	3104535611
Mailing Name:	Not reported
Mailing Address:	PO BOX 1047
Mailing City,St,Zip:	SANTA MONICA, CA 904060000
Gen County:	Orange
TSD EPA ID:	CAD009007626
TSD County:	Los Angeles
Tons:	1.6856
CA Waste Code:	151-Asbestos containing waste
Method:	D80-Disposal, Land Fill
Facility County:	Orange

F47 **RHODES GROUP & FULLERVALE ASSOC** **CA HAZNET** **S112867285**
2600 NUTWOOD AVENUE **N/A**
< 1/8 **FULLERTON, CA 92631**
1 ft.

Site 2 of 7 in cluster F

Relative: **Lower**
Actual: **234 ft.**

HAZNET:

Site Name:	RHODES GROUP & FULLERVALE ASSOC
Year:	1997
GEPAID:	CAC001109792
Contact:	RICK TAYLOR DIRECTOR MARKTG &
Telephone:	7146803077
Mailing Name:	Not reported
Mailing Address:	2001 WILSHIRE BLVD #410
Mailing City,St,Zip:	SANTA MONICA, CA 904030000
Gen County:	Orange

RHODES GROUP & FULLERVALE ASSOC (Continued) **S112867285**

TSD EPA ID:	IRC957100891
TSD County:	99
Tons:	0.8428
CA Waste Code:	151-Asbestos containing waste
Method:	D80-Disposal, Land Fill
Facility County:	Orange

Site Name:	RHODES GROUP & FULLERVALE ASSOC
Year:	1996
GEPAID:	CAC001109792
Contact:	RICK TAYLOR DIRECTOR MARKTG &
Telephone:	7146803077
Mailing Name:	Not reported
Mailing Address:	2001 WILSHIRE BLVD #410
Mailing City,St,Zip:	SANTA MONICA, CA 904030000
Gen County:	Orange
TSD EPA ID:	IRC957100891
TSD County:	99
Tons:	7.5852
CA Waste Code:	151-Asbestos containing waste
Method:	D80-Disposal, Land Fill
Facility County:	Orange

F48 **CSU FULLERTON COLLEGE OF BUSINESS & ECONOMICS** **CA CIWQS** **S121632343**
2555 E NUTWOOD AVE **N/A**
< 1/8 **FULLERTON, CA 92834**
1 ft.

Site 3 of 7 in cluster F

Relative:
Lower
Actual:
234 ft.

CIWQS:

Agency:	CSU Fullerton
Agency Address:	800 N State College Blvd, Fullerton, CA 92834
Place/Project Type:	Construction
SIC/NAICS:	Not reported
Region:	8
Program:	CONSTW
Regulatory Measure Status:	Terminated
Regulatory Measure Type:	Storm water construction
Order Number:	99-08DW
WDID:	8 30C345416
NPDES Number:	CAS000002
Adoption Date:	Not reported
Effective Date:	01/23/2007
Termination Date:	04/09/2009
Expiration/Review Date:	Not reported
Design Flow:	Not reported
Major/Minor:	Not reported
Complexity:	Not reported
TTWQ:	Not reported
Enforcement Actions within 5 years:	0
Violations within 5 years:	0
Latitude:	Not reported
Longitude:	Not reported

F49 **SHELDON STEVENS INC** **CA HAZNET** **S112868654**
2600 NUTWOOD AVENUE **N/A**
< 1/8 **FULLERTON, CA 92631**
1 ft.

Site 4 of 7 in cluster F

Relative: **Lower**
Actual: **234 ft.**

HAZNET:

Site Name:	SHELDON STEVENS INC
Year:	1996
GEPAID:	CAC001139016
Contact:	CHANDA WHITE
Telephone:	9093569025
Mailing Name:	Not reported
Mailing Address:	133 W LEMON AVE
Mailing City,St,Zip:	MONROVIA, CA 910160000
Gen County:	Orange
TSD EPA ID:	NVT330010000
TSD County:	99
Tons:	0.8
CA Waste Code:	261-Polychlorinated biphenyls and material containing PCBs
Method:	-
Facility County:	Orange

F50 **CAL STATE FULLERTON FOUNDATION** **CA HAZNET** **S112951268**
2600 NUTWOOD AVE **N/A**
< 1/8 **FULLERTON, CA 92831**
1 ft.

Site 5 of 7 in cluster F

Relative: **Lower**
Actual: **234 ft.**

HAZNET:

Site Name:	CAL STATE FULLERTON FOUNDATION
Year:	2006
GEPAID:	CAC002600087
Contact:	MARK GERAGHRTY
Telephone:	5622540776
Mailing Name:	Not reported
Mailing Address:	5900 CHERRY AVE
Mailing City,St,Zip:	LONG BEACH, CA 908054408
Gen County:	Orange
TSD EPA ID:	CAD028409019
TSD County:	Los Angeles
Tons:	0.15
CA Waste Code:	343-Unspecified organic liquid mixture
Method:	T01-Treatment, Tank
Facility County:	Orange

F51 **COLLEGE PARK** **CA HAZNET** **S112895127**
2600 NUTWOOD AVE **N/A**
< 1/8 **FULLERTON, CA 92631**
1 ft.

Site 6 of 7 in cluster F

Relative: **Lower**
Actual: **234 ft.**

HAZNET:

Site Name:	COLLEGE PARK
Year:	1998
GEPAID:	CAC001486848
Contact:	DAVID STEVENS/OWNER
Telephone:	6263033883

COLLEGE PARK (Continued) **S112895127**

Mailing Name:	Not reported
Mailing Address:	2600 NUTWOOD AVE
Mailing City,St,Zip:	FULLERTON, CA 926310000
Gen County:	Orange
TSD EPA ID:	NVT330010000
TSD County:	99
Tons:	2.5037
CA Waste Code:	261-Polychlorinated biphenyls and material containing PCBs
Method:	D80-Disposal, Land Fill
Facility County:	Orange

F52 **CA CHMIRS** **S105663699**
NUTWOOD AVE. & LANGSDORF DR. **N/A**
< 1/8 **FULLERTON, CA**
1 ft.

Site 7 of 7 in cluster F

Relative: **Lower**
Actual: **235 ft.**

CHMIRS:

OES Incident Number:	0-6199
OES notification:	12/29/2000
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	No
Waterway:	Not reported
Spill Site:	Not reported
Cleanup By:	City of Fullerton
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	2000

(Continued) **S105663699**

Agency:	CHP-Santa Ana
Incident Date:	12/29/200012:00:00 AM
Admin Agency:	Fullerton Fire Department
Amount:	Not reported
Contained:	Yes
Site Type:	Road
E Date:	Not reported
Substance:	Diesel fuel
Gallons:	150
Unknown:	0
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	0
Number of Injuries:	0
Number of Fatalities:	0
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	Fuel tanks ruptured due to striking object in roadway.

G53 **TROY HIGH SCHOOL** **CA ENVIROSTOR** **S105954526**
WSW **2200 EAST DOROTHY LANE** **CA SCH** **N/A**
< 1/8 **FULLERTON, CA 92831** **CA CERS**
0.002 mi.
8 ft. **Site 1 of 3 in cluster G**

Relative:
Lower

Actual:
235 ft.

ENVIROSTOR:

Facility ID:	30820011
Status:	No Further Action
Status Date:	11/10/2003
Site Code:	404445
Site Type:	School Investigation
Site Type Detailed:	School
Acres:	0.5
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Not reported
Supervisor:	Yolanda Garza
Division Branch:	Southern California Schools & Brownfields Outreach
Assembly:	65
Senate:	29
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	School District
Latitude:	33.88883
Longitude:	-117.9436
APN:	NONE SPECIFIED
Past Use:	* EDUCATIONAL SERVICES

TROY HIGH SCHOOL (Continued) **S105954526**

Potential COC: DDE DDT DDD
Confirmed COC: NONE SPECIFIED
Potential Description: SOIL
Alias Name: FULLERTON JOINT UHSD-TROY HIGH SCHOOL
Alias Type: Alternate Name
Alias Name: FULLERTON JOINT UNION HIGH SCHOOL DIST.
Alias Type: Alternate Name
Alias Name: TROY HIGH SCHOOL
Alias Type: Alternate Name
Alias Name: 404445
Alias Type: Project Code (Site Code)
Alias Name: 30820011
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 11/10/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 09/19/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 04/07/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Tech Memo
Completed Date: 06/06/2003
Comments: DTSC approved the PEA Technical Memorandum for implementation.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 04/25/2003
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

SCH:

TROY HIGH SCHOOL (Continued) **S105954526**

Facility ID:	30820011
Site Type:	School Investigation
Site Type Detail:	School
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	0.5
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Not reported
Supervisor:	Yolanda Garza
Division Branch:	Southern California Schools & Brownfields Outreach
Site Code:	404445
Assembly:	65
Senate:	29
Special Program Status:	Not reported
Status:	No Further Action
Status Date:	11/10/2003
Restricted Use:	NO
Funding:	School District
Latitude:	33.88883
Longitude:	-117.9436
APN:	NONE SPECIFIED
Past Use:	* EDUCATIONAL SERVICES
Potential COC:	DDE, DDE, DDT, DDD
Confirmed COC:	NONE SPECIFIED
Potential Description:	SOIL
Alias Name:	FULLERTON JOINT UHSD-TROY HIGH SCHOOL
Alias Type:	Alternate Name
Alias Name:	FULLERTON JOINT UNION HIGH SCHOOL DIST.
Alias Type:	Alternate Name
Alias Name:	TROY HIGH SCHOOL
Alias Type:	Alternate Name
Alias Name:	404445
Alias Type:	Project Code (Site Code)
Alias Name:	30820011
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Cost Recovery Closeout Memo
Completed Date:	11/10/2003
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Report
Completed Date:	09/19/2003
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Phase 1
Completed Date:	04/07/2003
Comments:	Not reported
Completed Area Name:	PROJECT WIDE

TROY HIGH SCHOOL (Continued) **S105954526**

Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Tech Memo
Completed Date: 06/06/2003
Comments: DTSC approved the PEA Technical Memorandum for implementation.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 04/25/2003
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

CERS TANKS:
Site ID: 344051
CERS ID: 30820011
Site Name: TROY HIGH SCHOOL
CERS Description: School Investigation

Affiliation:
Affiliation Type Desc: Supervisor
Entity Name: YOLANDA GARZA
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

G54
WSW
< 1/8
0.002 mi.
8 ft.

TROY HIGH SCHOOL **CA CERS HAZ WASTE** **S123517135**
2200 DOROTHY LN **CA CERS** **N/A**
FULLERTON, CA 92831

Site 2 of 3 in cluster G

Relative:
Lower

Actual:
235 ft.

CERS HAZ WASTE:
Site ID: 410394
CERS ID: 10542328
CERS Description: Hazardous Waste Generator

Violations:
Site ID: 410394
Site Name: TROY HIGH SCHOOL
Violation Date: 03-31-2015
Citation: HSC 6.95 25508.2 - California Health and Safety Code, Chapter 6.95, Section(s) 25508.2
Violation Description: Failure to annually review and electronically certify that the business plan is complete, accurate, and up-to-date.

TROY HIGH SCHOOL (Continued) **S123517135**

Violation Notes:	Returned to compliance on 07/02/2015.
Violation Division:	Fullerton City Fire Department
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	410394
Site Name:	TROY HIGH SCHOOL
Violation Date:	02-27-2018
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit a site map with all required content.
Violation Notes:	Returned to compliance on 03/15/2018.
Violation Division:	Fullerton City Fire Department
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	410394
Site Name:	TROY HIGH SCHOOL
Violation Date:	02-27-2018
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes:	Returned to compliance on 03/15/2018.
Violation Division:	Fullerton City Fire Department
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	410394
Site Name:	TROY HIGH SCHOOL
Violation Date:	03-18-2014
Citation:	HSC 6.95 25504(a) - California Health and Safety Code, Chapter 6.95, Section(s) 25504(a)
Violation Description:	Failure to complete and/or submit hazardous material inventory forms for all reportable hazardous materials on site.
Violation Notes:	Not reported
Violation Division:	Orange County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS

Evaluation:

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	03-07-2019
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Walked campus with John of their maintenance division. Site is under disclosable amounts on 2 reported chemicals therefore the site map needs to be updated.
Eval Division:	Fullerton City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	03-18-2014
Violations Found:	Yes

TROY HIGH SCHOOL (Continued) **S123517135**

Eval Type:	Routine done by local agency
Eval Notes:	chemical inventory needs updating
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	02-28-2017
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	No violations. The school previously had pool chemicals disclosed. Pool is under construction at this time and all pool chemicals have been removed from site. School will add chemicals back to inventory once school pool is completed
Eval Division:	Fullerton City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	03-31-2015
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	CERTIFIED ESUBMIT
Eval Division:	Fullerton City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	08-29-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Verified via the DTSC manifest tracking system that Troy High is properly manging their biological and chemistry wastes properly (manifests). Abate violation # I474 listed n the 8-23-16 inspection report. Once the Universal Waste boxes (light tubes) are properly labeled, the last violation will be abated. Please keep all manifests (copies) on site and available for review in the future.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	05-04-2016
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	certified via esubmit
Eval Division:	Fullerton City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	02-27-2018
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	inspection conducted with custodian Rudy Garcia. Pool has been remodeled. Facility shall update chemical inventory to include pool chemicals and update site map to show chemical locations

TROY HIGH SCHOOL (Continued) **S123517135**

Eval Division:	Fullerton City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-02-2015
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	NO VIOLATIONS CERTIFIED
Eval Division:	Fullerton City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS

Enforcement Action:

Site ID:	410394
Site Name:	TROY HIGH SCHOOL
Site Address:	2200 DOROTHY LN
Site City:	FULLERTON
Site Zip:	92831
Enf Action Date:	03-18-2014
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	Orange County Environmental Health
Enf Action Program:	HMRRP
Enf Action Source:	CERS

Coordinates:

Site ID:	410394
Facility Name:	TROY HIGH SCHOOL
Env Int Type Code:	HMBP
Program ID:	10542328
Coord Name:	Not reported
Ref Point Type Desc:	Center of a facility or station.
Latitude:	33.881400
Longitude:	-117.891750

Affiliation:

Affiliation Type Desc:	Environmental Contact
Entity Name:	Philip Fleming
Entity Title:	Not reported
Affiliation Address:	1027 South Leslie Street
Affiliation City:	La Habra
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	90631
Affiliation Phone:	Not reported
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	2200 Dorothy Lane
Affiliation City:	Fullerton
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92831

TROY HIGH SCHOOL (Continued) **S123517135**

Affiliation Phone:	Not reported
Affiliation Type Desc:	Legal Owner
Entity Name:	fullerton joint union high school district
Entity Title:	Not reported
Affiliation Address:	1051 West Bastanchury Road
Affiliation City:	Fullerton
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92833
Affiliation Phone:	(714) 870-2800
Affiliation Type Desc:	CUPA District
Entity Name:	Orange County Env Health
Entity Title:	Not reported
Affiliation Address:	1241 East Dyer RoadSuite 120
Affiliation City:	Santa Ana
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92705-5611
Affiliation Phone:	(714) 433-6000
Affiliation Type Desc:	Document Preparer
Entity Name:	Patrick Luu
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Parent Corporation
Entity Name:	TROY HIGH SCHOOL
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Property Owner
Entity Name:	Fullerton Joint Union High School District
Entity Title:	Not reported
Affiliation Address:	1051 West Bastanchury Road
Affiliation City:	Fullerton
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92833
Affiliation Phone:	(714) 870-2800
Affiliation Type Desc:	Identification Signer
Entity Name:	Philip Fleming
Entity Title:	Facilities Supervisor
Affiliation Address:	Not reported
Affiliation City:	Not reported

TROY HIGH SCHOOL (Continued) **S123517135**

Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Operator
Entity Name:	TROY HIGH SCHOOL
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(714) 626-4400

CERS TANKS:

Site ID:	410394
CERS ID:	10542328
Site Name:	TROY HIGH SCHOOL
CERS Description:	Chemical Storage Facilities

Violations:

Site ID:	410394
Site Name:	TROY HIGH SCHOOL
Violation Date:	03-31-2015
Citation:	HSC 6.95 25508.2 - California Health and Safety Code, Chapter 6.95, Section(s) 25508.2
Violation Description:	Failure to annually review and electronically certify that the business plan is complete, accurate, and up-to-date.
Violation Notes:	Returned to compliance on 07/02/2015.
Violation Division:	Fullerton City Fire Department
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	410394
Site Name:	TROY HIGH SCHOOL
Violation Date:	02-27-2018
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit a site map with all required content.
Violation Notes:	Returned to compliance on 03/15/2018.
Violation Division:	Fullerton City Fire Department
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	410394
Site Name:	TROY HIGH SCHOOL
Violation Date:	02-27-2018
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes:	Returned to compliance on 03/15/2018.
Violation Division:	Fullerton City Fire Department

TROY HIGH SCHOOL (Continued) **S123517135**

Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	410394
Site Name:	TROY HIGH SCHOOL
Violation Date:	03-18-2014
Citation:	HSC 6.95 25504(a) - California Health and Safety Code, Chapter 6.95, Section(s) 25504(a)
Violation Description:	Failure to complete and/or submit hazardous material inventory forms for all reportable hazardous materials on site.
Violation Notes:	Not reported
Violation Division:	Orange County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS

Evaluation:

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	03-07-2019
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Walked campus with John of their maintenance division. Site is under disclosable amounts on 2 reported chemicals therefore the site map needs to be updated.
Eval Division:	Fullerton City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	03-18-2014
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	chemical inventory needs updating
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	02-28-2017
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	No violations. The school previously had pool chemicals disclosed. Pool is under construction at this time and all pool chemicals have been removed from site. School will add chemicals back to inventory once school pool is completed
Eval Division:	Fullerton City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	03-31-2015
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	CERTIFIED ESUBMIT
Eval Division:	Fullerton City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS

TROY HIGH SCHOOL (Continued) **S123517135**

Eval General Type:	Other/Unknown
Eval Date:	08-29-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Verified via the DTSC manifest tracking system that Troy High is properly manging their biological and chemistry wastes properly (manifests). Abate violation # I474 listed n the 8-23-16 inspection report. Once the Universal Waste boxes (light tubes) are properly labeled, the last violation will be abated. Please keep all manifests (copies) on site and available for review in the future.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	05-04-2016
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	certified via esubmit
Eval Division:	Fullerton City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	02-27-2018
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	inspection conducted with custodian Rudy Garcia. Pool has been remodeled. Facility shall update chemical inventory to include pool chemicals and update site map to show chemical locations
Eval Division:	Fullerton City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-02-2015
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	NO VIOLATIONS CERTIFIED
Eval Division:	Fullerton City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS

Enforcement Action:

Site ID:	410394
Site Name:	TROY HIGH SCHOOL
Site Address:	2200 DOROTHY LN
Site City:	FULLERTON
Site Zip:	92831
Enf Action Date:	03-18-2014
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	Orange County Environmental Health
Enf Action Program:	HMRRP
Enf Action Source:	CERS

TROY HIGH SCHOOL (Continued) **S123517135**

Coordinates:

Site ID:	410394
Facility Name:	TROY HIGH SCHOOL
Env Int Type Code:	HMBP
Program ID:	10542328
Coord Name:	Not reported
Ref Point Type Desc:	Center of a facility or station.
Latitude:	33.881400
Longitude:	-117.891750

Affiliation:

Affiliation Type Desc:	Environmental Contact
Entity Name:	Philip Fleming
Entity Title:	Not reported
Affiliation Address:	1027 South Leslie Street
Affiliation City:	La Habra
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	90631
Affiliation Phone:	Not reported

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	2200 Dorothy Lane
Affiliation City:	Fullerton
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92831
Affiliation Phone:	Not reported

Affiliation Type Desc:	Legal Owner
Entity Name:	fullerton joint union high school district
Entity Title:	Not reported
Affiliation Address:	1051 West Bastanchury Road
Affiliation City:	Fullerton
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92833
Affiliation Phone:	(714) 870-2800

Affiliation Type Desc:	CUPA District
Entity Name:	Orange County Env Health
Entity Title:	Not reported
Affiliation Address:	1241 East Dyer RoadSuite 120
Affiliation City:	Santa Ana
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92705-5611
Affiliation Phone:	(714) 433-6000

Affiliation Type Desc:	Document Preparer
Entity Name:	Patrick Luu
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported

TROY HIGH SCHOOL (Continued) **S123517135**

Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Parent Corporation
Entity Name:	TROY HIGH SCHOOL
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Property Owner
Entity Name:	Fullerton Joint Union High School District
Entity Title:	Not reported
Affiliation Address:	1051 West Bastanchury Road
Affiliation City:	Fullerton
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92833
Affiliation Phone:	(714) 870-2800

Affiliation Type Desc:	Identification Signer
Entity Name:	Philip Fleming
Entity Title:	Facilities Supervisor
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Operator
Entity Name:	TROY HIGH SCHOOL
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(714) 626-4400

G55 **FULLERTON JUHSD-TROY HIGH SCHOOL** **RCRA NonGen / NLR** **1024787045**
WSW **2200 E DOROTHY LN** **CAL000027443**
< 1/8 **FULLERTON, CA 92831**
0.002 mi.
8 ft. **Site 3 of 3 in cluster G**

Relative:
Lower

Actual:
235 ft.

RCRA NonGen / NLR:

Date form received by agency:	05/09/1990
Facility name:	FULLERTON JUHSD-TROY HIGH SCHOOL
Facility address:	2200 E DOROTHY LN FULLERTON, CA 92831-3036
EPA ID:	CAL000027443

FULLERTON JUHSD-TROY HIGH SCHOOL (Continued) **1024787045**

Mailing address:	1051 W BASTANCHURY RD FULLERTON, CA 92833-2247
Contact:	PHIL FLEMING
Contact address:	1021 S. LESLIE ST. LA HABRA, CA 90631-0000
Contact country:	Not reported
Contact telephone:	714-680-5609
Contact email:	PFLEMING@FJUHSD.ORG
EPA Region:	09
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	PHIL FLEMING
Owner/operator address:	1021 S. LESLIE ST. LA HABRA, CA 90631
Owner/operator country:	Not reported
Owner/operator telephone:	714-680-5609
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Other
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	FULLERTON JOINT UNION HIGH SCH DIST
Owner/operator address:	1051 W BASTANCHURY RD FULLERTON, CA 92833
Owner/operator country:	Not reported
Owner/operator telephone:	714-870-2891
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Other
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	Yes
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

FULLERTON JUHSD-TROY HIGH SCHOOL (Continued) **1024787045**

Violation Status: No violations found

56
North
< 1/8
0.017 mi.
90 ft.

MARSHALL B. KETCHUM UNIVERSITY
2575 YORBA LINDA BLVD
FULLERTON, CA 92831

RCRA NonGen / NLR **1024771861**
CAC002991773

Relative:
Higher

Actual:
264 ft.

RCRA NonGen / NLR:

Date form received by agency:	12/05/2018
Facility name:	MARSHALL B. KETCHUM UNIVERSITY
Facility address:	2575 YORBA LINDA BLVD FULLERTON, CA 92831
EPA ID:	CAC002991773
Contact:	GREG SMITH
Contact address:	2575 YORBA LINDA BLVD FULLERTON, CA 92831
Contact country:	Not reported
Contact telephone:	714-449-7456
Contact email:	GSMITH@KETCHUM.EDU
EPA Region:	09
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	MARSHALL B. KETCHUM UNIVERSITY
Owner/operator address:	2575 YORBA LINDA BLVD FULLERTON, CA 92831
Owner/operator country:	Not reported
Owner/operator telephone:	714-449-7456
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Other
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	GREG SMITH
Owner/operator address:	2575 YORBA LINDA BLVD FULLERTON, CA 92831
Owner/operator country:	Not reported
Owner/operator telephone:	714-449-7456
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Other
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No

MARSHALL B. KETCHUM UNIVERSITY (Continued) **1024771861**

On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Violation Status: No violations found

H57
North
< 1/8
0.032 mi.
171 ft.

COLLEGE PARK SERVICE, INC **CA UST** **U004264415**
2601 E YORBA LINDA BLVD **N/A**
FULLERTON, CA 92831

Site 1 of 10 in cluster H

Relative:
Higher

Actual:
266 ft.

UST:

Facility ID:	FA0035817
Permitting Agency:	Orange County Environmental Health
Latitude:	33.88932
Longitude:	-117.88521

H58
North
< 1/8
0.032 mi.
171 ft.

COLLEGE PARK SERVICE INC **EDR Hist Auto** **1021672006**
2601 YORBA LINDA BLVD **N/A**
FULLERTON, CA 92631

Site 2 of 10 in cluster H

Relative:
Higher

Actual:
266 ft.

EDR Hist Auto

Year:	Name:	Type:
1989	COLLEGE PARK SERVICE INC	Gasoline Service Stations
1991	COLLEGE PARK SERVICE INC	Gasoline Service Stations
1992	COLLEGE PARK SERVICE INC	Gasoline Service Stations
1993	COLLEGE PARK SERVICE INC	Gasoline Service Stations
1994	COLLEGE PARK SERVICE INC	Gasoline Service Stations
1995	COLLEGE PARK SERVICE INC	Gasoline Service Stations
1996	COLLEGE PARK SERVICE INC	Gasoline Service Stations
1997	COLLEGE PARK SERVICE INC	Gasoline Service Stations
1998	COLLEGE PARK SERVICE INC	Gasoline Service Stations
1999	COLLEGE PARK SERVICE INC	Gasoline Service Stations
2000	COLLEGE PARK SERVICE INC	Gasoline Service Stations
2001	COLLEGE PARK SERVICE INC	Gasoline Service Stations
2002	COLLEGE PARK SERVICE INC	Gasoline Service Stations
2003	COLLEGE PARK SERVICE INC	Gasoline Service Stations
2004	COLLEGE PARK SERVICE INC	Gasoline Service Stations
2005	COLLEGE PARK SERVICE INC	Gasoline Service Stations
2006	COLLEGE PARK SERVICE INC	Gasoline Service Stations
2007	COLLEGE PARK SERVICE INC	Gasoline Service Stations
2008	COLLEGE PARK SERVICE INC	Gasoline Service Stations
2009	COLLEGE PARK SERVICE INC	Gasoline Service Stations
2010	COLLEGE PARK SERVICE INC	Gasoline Service Stations
2011	COLLEGE PARK SERVICE INC	Gasoline Service Stations
2012	COLLEGE PARK SERVICE INC	Gasoline Service Stations
2013	COLLEGE PARK SERVICE INC	Gasoline Service Stations

COLLEGE PARK SERVICE INC (Continued) **1021672006**

2014 COLLEGE PARK SERVICE INC Gasoline Service Stations

H59
North
< 1/8
0.032 mi.
171 ft.

CIRCLE K STORES INC. SITE #2211165
2601 EAST YORBA LINDA BLVD.
FULLERTON, CA 92831

CA UST **U004263161**
N/A

Site 3 of 10 in cluster H

Relative:
Higher

Actual:
266 ft.

UST:

Facility ID:	Not reported
Permitting Agency:	Orange County Environmental Health
Latitude:	33.88934
Longitude:	-117.88518

H60
North
< 1/8
0.032 mi.
171 ft.

RONALD DAVIS MOBIL (18-LCC)
2601 YORBA LINDA BLVD
FULLERTON, CA 92831

CA UST **U003778627**
N/A

Site 4 of 10 in cluster H

Relative:
Higher

Actual:
266 ft.

UST:

Facility ID:	4688
Permitting Agency:	FULLERTON, CITY OF
Latitude:	33.8907787
Longitude:	-117.8837251

H61
North
< 1/8
0.032 mi.
171 ft.

RONALD DAVIS
2601 YORBA LINDA BLVD
FULLERTON, CA 92631

CA HIST UST **U001576989**
N/A

Site 5 of 10 in cluster H

Relative:
Higher

Actual:
266 ft.

HIST UST:

File Number:	0002EBBC
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002EBBC.pdf
Region:	STATE
Facility ID:	00000039417
Facility Type:	Gas Station
Other Type:	Not reported
Contact Name:	Not reported
Telephone:	7148707494
Owner Name:	MOBIL OIL CORPORATION
Owner Address:	612 S. FLOWER STREET
Owner City,St,Zip:	LOS ANGELES, CA 90017
Total Tanks:	0004
Tank Num:	001
Container Num:	1
Year Installed:	Not reported
Tank Capacity:	00010000
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor

RONALD DAVIS (Continued) **U001576989**

Tank Num:	002
Container Num:	2
Year Installed:	Not reported
Tank Capacity:	00008000
Tank Used for:	PRODUCT
Type of Fuel:	REGULAR
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor

Tank Num:	003
Container Num:	3
Year Installed:	Not reported
Tank Capacity:	00005000
Tank Used for:	PRODUCT
Type of Fuel:	PREMIUM
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor

Tank Num:	004
Container Num:	4
Year Installed:	Not reported
Tank Capacity:	00000280
Tank Used for:	WASTE
Type of Fuel:	WASTE OIL
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor

Click here for Geo Tracker PDF:

H62 **COLLEGE PARK SERVICE INC** **RCRA NonGen / NLR** **1024850026**
North **2601 YORBA LINDA BLVD** **CAL000407178**
< 1/8 **FULLERTON, CA 92831**
0.032 mi.
171 ft. **Site 6 of 10 in cluster H**

Relative:
Higher

Actual:
266 ft.

RCRA NonGen / NLR:

Date form received by agency:	05/20/2015
Facility name:	COLLEGE PARK SERVICE INC
Facility address:	2601 YORBA LINDA BLVD FULLERTON, CA 92831
EPA ID:	CAL000407178
Contact:	ALICIA DAVIS
Contact address:	2601 YORBA LINDA BLVD FULLERTON, CA 92831
Contact country:	Not reported
Contact telephone:	714-870-7494
Contact email:	CPS1972@ATT.NET
EPA Region:	09
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	COLLEGE PARK SERVICE INC
Owner/operator address:	2601 YORBA LINDA BLVD FULLERTON, CA 92831
Owner/operator country:	Not reported
Owner/operator telephone:	714-870-7494

COLLEGE PARK SERVICE INC (Continued) **1024850026**

Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Other
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: ALICIA DAVIS
Owner/operator address: 2601 YORBA LINDA BLVD
FULLERTON, CA 92831
Owner/operator country: Not reported
Owner/operator telephone: 714-870-7494
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Other
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: Yes
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

H63 **RONALD DAVIS MOBIL (18-LCC)** **CA SWEEPS UST** **U003782966**
North **2601 YORBA LINDA BLVD** **N/A**
< 1/8 **FULLERTON, CA 92631**
0.032 mi.
171 ft. **Site 7 of 10 in cluster H**

Relative:
Higher

Actual:
266 ft.

SWEEPS UST:
Status: Active
Comp Number: 4688
Number: 9
Board Of Equalization: Not reported
Referral Date: 02-11-92
Action Date: 02-11-92
Created Date: 12-31-88
Owner Tank Id: 135
SWRCB Tank Id: 30-013-004688-000001
Tank Status: A
Capacity: 12000

RONALD DAVIS MOBIL (18-LCC) (Continued) **U003782966**

Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	W
Content:	DIESEL
Number Of Tanks:	3

Status:	Active
Comp Number:	4688
Number:	9
Board Of Equalization:	Not reported
Referral Date:	02-11-92
Action Date:	02-11-92
Created Date:	12-31-88
Owner Tank Id:	135
SWRCB Tank Id:	30-013-004688-000002
Tank Status:	A
Capacity:	8000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	W
Content:	REG UNLEADED
Number Of Tanks:	Not reported

Status:	Active
Comp Number:	4688
Number:	9
Board Of Equalization:	Not reported
Referral Date:	02-11-92
Action Date:	02-11-92
Created Date:	12-31-88
Owner Tank Id:	135
SWRCB Tank Id:	30-013-004688-000003
Tank Status:	A
Capacity:	10000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	W
Content:	REG UNLEADED
Number Of Tanks:	Not reported

H64 **COLLEGE PARK SERVICE, INC** **CA LUST** **S109284791**
North **2601 E YORBA LINDA BLVD** **CA CERS HAZ WASTE** **N/A**
< 1/8 **FULLERTON, CA 92831** **CA CERS TANKS**
0.032 mi. **CA CERS**
171 ft. **Site 8 of 10 in cluster H**

Relative:
Higher

Actual:
266 ft.

LUST:

Lead Agency:	SANTA ANA RWQCB (REGION 8)
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0605902313
Global Id:	T0605902313
Latitude:	33.8890815
Longitude:	-117.8854007
Status:	Completed - Case Closed
Status Date:	09/24/2018
Case Worker:	RS
RB Case Number:	083003521T
Local Agency:	FULLERTON, CITY OF

COLLEGE PARK SERVICE, INC (Continued) **S109284791**

File Location: Regional Board
Local Case Number: Not reported
Potential Media Affect: Aquifer used for drinking water supply
Potential Contaminants of Concern: Gasoline
Site History: A total of twelve borings have been drilled at the site. Methyl tertiary butyl ether (MtBE) was detected in soil at the site at concentrations greater than 1 milligram per kilogram (mg/kg) in six borings (MW-1, MW-2, MW-3, MW-4, VEW-6 and VEW-7). The highest concentration of MtBE detected was 25 mg/kg in a soil sample collected at a depth of 40 feet from Boring B2, completed as well VEW-1a/1b/MW-1. At 95 feet in this boring, MtBE was detected at a concentration of 2.9 mg/kg. Only one sample from this boring did not contain MtBE. It was collected 5 feet below the deepest detected MtBE at a depth of 120 feet. Vapor extraction has only been implemented intermittently at the site. Vapor samples collected from the wells indicated that MtBE vapor concentrations from four wells exceeded 10 parts per million by volume (ppmv) during the last dual phase extraction event on April 22, 2003: MW-1 (51 ppmv), MW-2 (11 ppmv), VEW-6A (23 ppmv), and VEW-6B (14 ppmv). The groundwater elevation has dropped as much as 18.74 feet since December of 1999. Due to dry wells, representative groundwater samples were unable to be collected from the on-site wells near the source area in May and August 2003. In well MW-6, the off-site well south of the site, MtBE was detected at a maximum of 812 a%g/l. On August 27, 2003, the MtBE detected in this well was 36.7a%g/l.

LUST:
Global Id: T0605902313
Contact Type: Regional Board Caseworker
Contact Name: ROSE SCOTT
Organization Name: SANTA ANA RWQCB (REGION 8)
Address: 3737 MAIN STREET, SUITE 500
City: RIVERSIDE
Email: rose.scott@waterboards.ca.gov
Phone Number: 9513206375

Global Id: T0605902313
Contact Type: Local Agency Caseworker
Contact Name: STEPHEN LONG
Organization Name: FULLERTON, CITY OF
Address: 312 E. COMMONWEALTH AVE.
City: FULLERTON
Email: stevel@fullertonfire.org
Phone Number: 7147383160

LUST:
Global Id: T0605902313
Action Type: ENFORCEMENT
Date: 03/10/2016
Action: Email Correspondence

Global Id: T0605902313
Action Type: RESPONSE
Date: 03/15/2005
Action: Other Workplan

Global Id: T0605902313

COLLEGE PARK SERVICE, INC (Continued) **S109284791**

Action Type: ENFORCEMENT
Date: 04/29/2004
Action: Meeting

Global Id: T0605902313
Action Type: ENFORCEMENT
Date: 07/23/2004
Action: Staff Letter

Global Id: T0605902313
Action Type: ENFORCEMENT
Date: 09/12/2008
Action: Technical Correspondence / Assistance / Other

Global Id: T0605902313
Action Type: ENFORCEMENT
Date: 09/10/2008
Action: Technical Correspondence / Assistance / Other

Global Id: T0605902313
Action Type: Other
Date: 08/09/1999
Action: Leak Reported

Global Id: T0605902313
Action Type: RESPONSE
Date: 10/30/2006
Action: Monitoring Report - Quarterly

Global Id: T0605902313
Action Type: RESPONSE
Date: 07/30/2006
Action: Monitoring Report - Quarterly

Global Id: T0605902313
Action Type: RESPONSE
Date: 03/14/2007
Action: Soil and Water Investigation Workplan

Global Id: T0605902313
Action Type: RESPONSE
Date: 07/30/2007
Action: Other Report / Document

Global Id: T0605902313
Action Type: ENFORCEMENT
Date: 12/16/2004
Action: Staff Letter

Global Id: T0605902313
Action Type: ENFORCEMENT
Date: 11/10/2016
Action: Technical Correspondence / Assistance / Other

Global Id: T0605902313
Action Type: ENFORCEMENT
Date: 03/20/2017

COLLEGE PARK SERVICE, INC (Continued) **S109284791**

Action: File review

Global Id: T0605902313
Action Type: RESPONSE
Date: 03/03/2016
Action: Request for Closure - Regulator Responded

Global Id: T0605902313
Action Type: RESPONSE
Date: 01/30/2016
Action: Monitoring Report - Semi-Annually - Regulator Responded

Global Id: T0605902313
Action Type: ENFORCEMENT
Date: 07/29/2009
Action: Staff Letter

Global Id: T0605902313
Action Type: RESPONSE
Date: 04/30/2008
Action: Monitoring Report - Quarterly

Global Id: T0605902313
Action Type: RESPONSE
Date: 10/30/2008
Action: Monitoring Report - Quarterly

Global Id: T0605902313
Action Type: RESPONSE
Date: 07/30/2008
Action: Monitoring Report - Quarterly

Global Id: T0605902313
Action Type: RESPONSE
Date: 01/30/2008
Action: Monitoring Report - Quarterly

Global Id: T0605902313
Action Type: RESPONSE
Date: 07/30/2007
Action: Monitoring Report - Quarterly

Global Id: T0605902313
Action Type: RESPONSE
Date: 09/15/2007
Action: CAP/RAP - Feasibility Study Report

Global Id: T0605902313
Action Type: RESPONSE
Date: 10/30/2008
Action: Well Installation Report

Global Id: T0605902313
Action Type: RESPONSE
Date: 10/30/2004
Action: Monitoring Report - Quarterly

COLLEGE PARK SERVICE, INC (Continued) **S109284791**

Global Id: T0605902313
Action Type: ENFORCEMENT
Date: 12/30/2002
Action: Staff Letter

Global Id: T0605902313
Action Type: ENFORCEMENT
Date: 02/16/2005
Action: Staff Letter

Global Id: T0605902313
Action Type: ENFORCEMENT
Date: 03/21/2005
Action: Meeting

Global Id: T0605902313
Action Type: ENFORCEMENT
Date: 06/07/2005
Action: * No Action

Global Id: T0605902313
Action Type: ENFORCEMENT
Date: 03/16/2010
Action: Technical Correspondence / Assistance / Other

Global Id: T0605902313
Action Type: ENFORCEMENT
Date: 07/08/2009
Action: Staff Letter

Global Id: T0605902313
Action Type: ENFORCEMENT
Date: 10/07/2010
Action: File review

Global Id: T0605902313
Action Type: ENFORCEMENT
Date: 02/13/2013
Action: Technical Correspondence / Assistance / Other

Global Id: T0605902313
Action Type: ENFORCEMENT
Date: 04/11/2018
Action: Staff Letter

Global Id: T0605902313
Action Type: ENFORCEMENT
Date: 06/14/2017
Action: Notification - Public Notice of Case Closure

Global Id: T0605902313
Action Type: RESPONSE
Date: 04/30/2009
Action: Monitoring Report - Quarterly

Global Id: T0605902313
Action Type: RESPONSE

COLLEGE PARK SERVICE, INC (Continued) **S109284791**

Date: 01/30/2015
Action: Monitoring Report - Semi-Annually

Global Id: T0605902313
Action Type: ENFORCEMENT
Date: 01/14/2013
Action: File review

Global Id: T0605902313
Action Type: ENFORCEMENT
Date: 06/25/2014
Action: Email Correspondence

Global Id: T0605902313
Action Type: ENFORCEMENT
Date: 12/29/2014
Action: File review

Global Id: T0605902313
Action Type: RESPONSE
Date: 01/30/2014
Action: Monitoring Report - Semi-Annually

Global Id: T0605902313
Action Type: ENFORCEMENT
Date: 03/27/2000
Action: Staff Letter

Global Id: T0605902313
Action Type: ENFORCEMENT
Date: 03/22/2000
Action: * Historical Enforcement

Global Id: T0605902313
Action Type: REMEDIATION
Date: 08/02/2005
Action: Not reported

Global Id: T0605902313
Action Type: ENFORCEMENT
Date: 09/24/2018
Action: Closure/No Further Action Letter

Global Id: T0605902313
Action Type: RESPONSE
Date: 07/30/2003
Action: Monitoring Report - Quarterly

Global Id: T0605902313
Action Type: RESPONSE
Date: 04/30/2003
Action: Monitoring Report - Quarterly

Global Id: T0605902313
Action Type: RESPONSE
Date: 05/16/2003
Action: Interim Remedial Action Report

COLLEGE PARK SERVICE, INC (Continued) **S109284791**

Global Id: T0605902313
Action Type: RESPONSE
Date: 10/30/2002
Action: Monitoring Report - Quarterly

Global Id: T0605902313
Action Type: RESPONSE
Date: 01/30/2003
Action: Monitoring Report - Quarterly

Global Id: T0605902313
Action Type: RESPONSE
Date: 07/30/2002
Action: Monitoring Report - Quarterly

Global Id: T0605902313
Action Type: RESPONSE
Date: 10/31/2002
Action: Corrective Action Plan / Remedial Action Plan

Global Id: T0605902313
Action Type: ENFORCEMENT
Date: 04/18/2007
Action: Verbal Enforcement

Global Id: T0605902313
Action Type: ENFORCEMENT
Date: 08/28/2006
Action: Technical Correspondence / Assistance / Other

Global Id: T0605902313
Action Type: ENFORCEMENT
Date: 01/09/2007
Action: Verbal Enforcement

Global Id: T0605902313
Action Type: ENFORCEMENT
Date: 04/03/2007
Action: Staff Letter

Global Id: T0605902313
Action Type: ENFORCEMENT
Date: 07/17/2007
Action: Staff Letter

Global Id: T0605902313
Action Type: ENFORCEMENT
Date: 07/31/2007
Action: Site Visit / Inspection / Sampling

Global Id: T0605902313
Action Type: RESPONSE
Date: 11/14/2003
Action: Other Report / Document

Global Id: T0605902313
Action Type: RESPONSE

COLLEGE PARK SERVICE, INC (Continued) **S109284791**

Date: 10/30/2003
Action: Monitoring Report - Quarterly

Global Id: T0605902313
Action Type: ENFORCEMENT
Date: 08/02/2005
Action: * No Action

Global Id: T0605902313
Action Type: ENFORCEMENT
Date: 12/04/2013
Action: File review

Global Id: T0605902313
Action Type: Other
Date: 07/15/1998
Action: Leak Discovery

Global Id: T0605902313
Action Type: RESPONSE
Date: 07/30/2004
Action: Monitoring Report - Quarterly

Global Id: T0605902313
Action Type: RESPONSE
Date: 10/15/2003
Action: Other Report / Document

Global Id: T0605902313
Action Type: RESPONSE
Date: 10/30/2004
Action: Soil and Water Investigation Report

Global Id: T0605902313
Action Type: RESPONSE
Date: 06/30/2004
Action: Soil and Water Investigation Workplan

Global Id: T0605902313
Action Type: RESPONSE
Date: 10/30/2004
Action: Monitoring Report - Quarterly

Global Id: T0605902313
Action Type: RESPONSE
Date: 01/30/2005
Action: Monitoring Report - Quarterly

Global Id: T0605902313
Action Type: RESPONSE
Date: 04/30/2005
Action: Monitoring Report - Quarterly

Global Id: T0605902313
Action Type: RESPONSE
Date: 08/01/2005
Action: Monitoring Report - Quarterly

COLLEGE PARK SERVICE, INC (Continued) **S109284791**

Global Id: T0605902313
Action Type: RESPONSE
Date: 07/01/2018
Action: Well Destruction Report

Global Id: T0605902313
Action Type: ENFORCEMENT
Date: 02/06/2004
Action: Site Visit / Inspection / Sampling

Global Id: T0605902313
Action Type: ENFORCEMENT
Date: 11/12/2003
Action: Staff Letter

Global Id: T0605902313
Action Type: ENFORCEMENT
Date: 12/31/2007
Action: Staff Letter

Global Id: T0605902313
Action Type: ENFORCEMENT
Date: 11/02/2007
Action: Staff Letter

Global Id: T0605902313
Action Type: Other
Date: 07/15/1998
Action: Leak Stopped

Global Id: T0605902313
Action Type: RESPONSE
Date: 07/30/2007
Action: Well Installation Report

Global Id: T0605902313
Action Type: RESPONSE
Date: 04/30/2005
Action: Monitoring Report - Quarterly

Global Id: T0605902313
Action Type: RESPONSE
Date: 01/30/2012
Action: Monitoring Report - Quarterly

Global Id: T0605902313
Action Type: RESPONSE
Date: 07/30/2015
Action: Monitoring Report - Semi-Annually

Global Id: T0605902313
Action Type: ENFORCEMENT
Date: 02/18/2004
Action: Staff Letter

Global Id: T0605902313
Action Type: ENFORCEMENT

COLLEGE PARK SERVICE, INC (Continued) **S109284791**

Date: 09/16/2003
Action: Staff Letter

LUST:

Global Id: T0605902313
Status: Completed - Case Closed
Status Date: 09/24/2018

Global Id: T0605902313
Status: Open - Case Begin Date
Status Date: 07/15/1998

Global Id: T0605902313
Status: Open - Eligible for Closure
Status Date: 07/08/2015

Global Id: T0605902313
Status: Open - Eligible for Closure
Status Date: 04/18/2016

Global Id: T0605902313
Status: Open - Remediation
Status Date: 02/28/2001

Global Id: T0605902313
Status: Open - Remediation
Status Date: 10/31/2002

Global Id: T0605902313
Status: Open - Site Assessment
Status Date: 08/09/1999

Global Id: T0605902313
Status: Open - Site Assessment
Status Date: 01/28/2000

Global Id: T0605902313
Status: Open - Site Assessment
Status Date: 05/24/2000

Global Id: T0605902313
Status: Open - Site Assessment
Status Date: 01/19/2001

Global Id: T0605902313
Status: Open - Site Assessment
Status Date: 06/18/2004

Global Id: T0605902313
Status: Open - Site Assessment
Status Date: 03/14/2007

Global Id: T0605902313
Status: Open - Verification Monitoring
Status Date: 08/01/2005

COLLEGE PARK SERVICE, INC (Continued) **S109284791**

CERS HAZ WASTE:

Site ID:	276020
CERS ID:	10544017
CERS Description:	Hazardous Waste Generator

Violations:

Site ID:	276020
Site Name:	COLLEGE PARK SERVICE, INC
Violation Date:	04-11-2016
Citation:	HSC 6.7 25291 - California Health and Safety Code, Chapter 6.7, Section(s) 25291
Violation Description:	Failure to maintain under-dispenser containment, sumps, and/or other secondary containment in good condition and/or free of debris/liquid.
Violation Notes:	Returned to compliance on 04/11/2016. Small amount of liquid present in 87 main and 87 auxillarly STP sumps. Removed at time of inspection.
Violation Division:	Fullerton City Fire Department
Violation Program:	UST
Violation Source:	CERS

Site ID:	276020
Site Name:	COLLEGE PARK SERVICE, INC
Violation Date:	04-03-2018
Citation:	23 CCR 16 2665 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2665
Violation Description:	Failure of the overfill prevention system to meet one of the following requirements: Alert the transfer operator when the tank is 90 percent full by restricting the flow into the tank or triggering an audible and visual alarm; or Restrict delivery of flow to the tank at least 30 minutes before the tank overfills, provided the restriction occurs when the tank is filled to no more than 95 percent of capacity; and activate an audible alarm at least five minutes before the tank overfills; or Provide positive shut-off of flow to the tank when the tank is filled to no more than 95 percent of capacity; or Provide positive shut-off of flow to the tank so that none of the fittings located on the top of the tank are exposed to product due to overfilling.
Violation Notes:	Returned to compliance on 04/03/2018. Visual annunciator on overfill alarm failed to function. Bulb replaced and retested at time of inspection.
Violation Division:	Fullerton City Fire Department
Violation Program:	UST
Violation Source:	CERS

Site ID:	276020
Site Name:	COLLEGE PARK SERVICE, INC
Violation Date:	04-04-2017
Citation:	HSC 6.75 25299.30-25299.34 - California Health and Safety Code, Chapter 6.75, Section(s) 25299.30-25299.34
Violation Description:	Failure to submit and maintain complete and current Certification of Financial Responsibility or other mechanism of financial assurance.
Violation Notes:	Returned to compliance on 04/04/2017. Certification of financial responsibility on CERS was out of date.
Violation Division:	Fullerton City Fire Department
Violation Program:	UST
Violation Source:	CERS

COLLEGE PARK SERVICE, INC (Continued) **S109284791**

Evaluation:

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	03-23-2016
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	College Park Services 2601 E. Yorba Linda Blvd. Fullerton, CA 92831 Old DBA = Circle K New DBA = College Park Services. Change EPA ID #.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	04-03-2018
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Monitor certification performed this date.
Eval Division:	Fullerton City Fire Department
Eval Program:	UST
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	04-04-2017
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	No violations observed.
Eval Division:	Fullerton City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	04-11-2016
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	No violations observed.
Eval Division:	Fullerton City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	04-11-2016
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Fullerton City Fire Department
Eval Program:	UST
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	05-13-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	CERS review: BA/OW pg
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection

COLLEGE PARK SERVICE, INC (Continued) **S109284791**

Eval Date:	04-03-2018
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	No violations observed.
Eval Division:	Fullerton City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	04-04-2017
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Monitor certification performed this date.
Eval Division:	Fullerton City Fire Department
Eval Program:	UST
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	07-03-2013
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	facility sold to CIRCLE K STORES INC ON 6-19-13
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	07-19-2013
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Received emergency response plan from BEP to add to hazardous waste facility file
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-18-2016
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	On site to conduct a routine hazardous waste inspection. Consent to enter, inspect and take any necessary pictures was given by the Store Manager, Emilio Acevedo at 3:50 pm. The hazardous waste containers found here: - Gasoline Mixture (flammable liquid) = 25 gallons - Oily Absorbent = 75 pounds The hazardous waste containers were closed and labeled properly. The site maintains a spill log on-site and cleans up spills immediately. Walked the perimeter of the site, and there were no hazardous waste spills or discharges observed during this inspection. Weekly inspections are performed by the Store Manager. Emergency response information was posted. Per Mr. Acevedo the employees undergo annual training for hazardous waste management. Please contact Shruthi Sill at ssill@ochca.com with regards to any questions.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS

COLLEGE PARK SERVICE, INC (Continued) **S109284791**

Eval General Type:	Other/Unknown
Eval Date:	09-11-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	OCHCA received a letter from Circle K Stores stating that they are the new owners of this gas station. They were requesting an "ownership change". I visited the site and got permission to inspect by Circle K/Alicia Davis. The HW had been hauled away and the facility had manifests. This file will be closed out and the new file (Circle K) will begin. RUR submitted for College Park SRVC/Mobil R/R #11189.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS

Affiliation:

Affiliation Type Desc:	Property Owner
Entity Name:	COLLEGE PARK SERVICE, INC
Entity Title:	Not reported
Affiliation Address:	2601 E YORBA LINDA BLVD
Affiliation City:	FULLERTON
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92831
Affiliation Phone:	(714) 870-7494

Affiliation Type Desc:	UST Tank Operator
Entity Name:	COLLEGE PARK SERVICE, INC
Entity Title:	Not reported
Affiliation Address:	2601 E YORBA LINDA BLVD
Affiliation City:	FULLERTON
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92831
Affiliation Phone:	(714) 870-7494

Affiliation Type Desc:	Legal Owner
Entity Name:	COLLEGE PARK SERVICE, INC
Entity Title:	Not reported
Affiliation Address:	2601 E YORBA LINDA BLVD
Affiliation City:	FULLERTON
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92831
Affiliation Phone:	(714) 870-7494

Affiliation Type Desc:	Parent Corporation
Entity Name:	Mission Service and Parts Inc.
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	UST Tank Owner
Entity Name:	COLLEGE PARK SERVICE, INC

COLLEGE PARK SERVICE, INC (Continued) **S109284791**

Entity Title:	Not reported
Affiliation Address:	2601 E YORBA LINDA BLVD
Affiliation City:	FULLERTON
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92831
Affiliation Phone:	(714) 870-7494

Affiliation Type Desc:	CUPA District
Entity Name:	Orange County Env Health
Entity Title:	Not reported
Affiliation Address:	1241 East Dyer RoadSuite 120
Affiliation City:	Santa Ana
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92705-5611
Affiliation Phone:	(714) 433-6000

Affiliation Type Desc:	Document Preparer
Entity Name:	Robert Zerby
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Environmental Contact
Entity Name:	Robert Zerby
Entity Title:	Not reported
Affiliation Address:	2601 YORBA LINDA BLVD
Affiliation City:	FULLERTON
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92831
Affiliation Phone:	Not reported

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	2601 E YORBA LINDA BLVD
Affiliation City:	FULLERTON
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92831
Affiliation Phone:	Not reported

Affiliation Type Desc:	Operator
Entity Name:	Alicia Davis
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(714) 870-7494

COLLEGE PARK SERVICE, INC (Continued) **S109284791**

Affiliation Type Desc:	UST Permit Applicant
Entity Name:	ALICIA DAVIS
Entity Title:	OWNER
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(714) 870-7494

Affiliation Type Desc:	Identification Signer
Entity Name:	ALICIA DAVIS
Entity Title:	OWNER
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	UST Property Owner Name
Entity Name:	COLLEGE PARK SERVICE, INC
Entity Title:	Not reported
Affiliation Address:	2601 E YORBA LINDA BLVD
Affiliation City:	FULLERTON
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92831
Affiliation Phone:	(714) 870-7494

CERS TANKS:

Facility Name:	COLLEGE PARK SERVICE, INC
Site ID:	276020
CERS ID:	10544017
CERS Description:	Underground Storage Tank

Violations:

Site ID:	276020
Site Name:	COLLEGE PARK SERVICE, INC
Violation Date:	04-11-2016
Citation:	HSC 6.7 25291 - California Health and Safety Code, Chapter 6.7, Section(s) 25291
Violation Description:	Failure to maintain under-dispenser containment, sumps, and/or other secondary containment in good condition and/or free of debris/liquid.
Violation Notes:	Returned to compliance on 04/11/2016. Small amount of liquid present in 87 main and 87 auxillarly STP sumps. Removed at time of inspection.
Violation Division:	Fullerton City Fire Department
Violation Program:	UST
Violation Source:	CERS

Site ID:	276020
Site Name:	COLLEGE PARK SERVICE, INC
Violation Date:	04-03-2018
Citation:	23 CCR 16 2665 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2665
Violation Description:	Failure of the overfill prevention system to meet one of the following

COLLEGE PARK SERVICE, INC (Continued) **S109284791**

	requirements: Alert the transfer operator when the tank is 90 percent full by restricting the flow into the tank or triggering an audible and visual alarm; or Restrict delivery of flow to the tank at least 30 minutes before the tank overfills, provided the restriction occurs when the tank is filled to no more than 95 percent of capacity; and activate an audible alarm at least five minutes before the tank overfills; or Provide positive shut-off of flow to the tank when the tank is filled to no more than 95 percent of capacity; or Provide positive shut-off of flow to the tank so that none of the fittings located on the top of the tank are exposed to product due to overfilling.
Violation Notes:	Returned to compliance on 04/03/2018. Visual annunciator on overfill alarm failed to function. Bulb replaced and retested at time of inspection.
Violation Division:	Fullerton City Fire Department
Violation Program:	UST
Violation Source:	CERS
Site ID:	276020
Site Name:	COLLEGE PARK SERVICE, INC
Violation Date:	04-04-2017
Citation:	HSC 6.75 25299.30-25299.34 - California Health and Safety Code, Chapter 6.75, Section(s) 25299.30-25299.34
Violation Description:	Failure to submit and maintain complete and current Certification of Financial Responsibility or other mechanism of financial assurance.
Violation Notes:	Returned to compliance on 04/04/2017. Certification of financial responsibility on CERS was out of date.
Violation Division:	Fullerton City Fire Department
Violation Program:	UST
Violation Source:	CERS

Evaluation:

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	03-23-2016
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	College Park Services 2601 E. Yorba Linda Blvd. Fullerton, CA 92831 Old DBA = Circle K New DBA = College Park Services. Change EPA ID #.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	04-03-2018
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Monitor certification performed this date.
Eval Division:	Fullerton City Fire Department
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	04-04-2017
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	No violations observed.
Eval Division:	Fullerton City Fire Department

COLLEGE PARK SERVICE, INC (Continued) **S109284791**

Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	04-11-2016
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	No violations observed.
Eval Division:	Fullerton City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	04-11-2016
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Fullerton City Fire Department
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	05-13-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	CERS review: BA/OW pg
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	04-03-2018
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	No violations observed.
Eval Division:	Fullerton City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	04-04-2017
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Monitor certification performed this date.
Eval Division:	Fullerton City Fire Department
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	07-03-2013
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	facility sold to CIRCLE K STORES INC ON 6-19-13
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS

COLLEGE PARK SERVICE, INC (Continued) **S109284791**

Eval General Type:	Other/Unknown
Eval Date:	07-19-2013
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Received emergency response plan from BEP to add to hazardous waste facility file
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-18-2016
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	On site to conduct a routine hazardous waste inspection. Consent to enter, inspect and take any necessary pictures was given by the Store Manager, Emilio Acevedo at 3:50 pm. The hazardous waste containers found here: - Gasoline Mixture (flammable liquid) = 25 gallons - Oily Absorbent = 75 pounds The hazardous waste containers were closed and labeled properly. The site maintains a spill log on-site and cleans up spills immediately. Walked the perimeter of the site, and there were no hazardous waste spills or discharges observed during this inspection. Weekly inspections are performed by the Store Manager. Emergency response information was posted. Per Mr. Acevedo the employees undergo annual training for hazardous waste management. Please contact Shruthi Sill at ssill@ochca.com with regards to any questions.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	09-11-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	OCHCA received a letter from Circle K Stores stating that they are the new owners of this gas station. They were requesting an "ownership change". I visited the site and got permission to inspect by Circle K/Alicia Davis. The HW had been hauled away and the facility had manifests. This file will be closed out and the new file (Circle K) will begin. RUR submitted for College Park SRVC/Mobil R/R #11189.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS

Affiliation:

Affiliation Type Desc:	Property Owner
Entity Name:	COLLEGE PARK SERVICE, INC
Entity Title:	Not reported
Affiliation Address:	2601 E YORBA LINDA BLVD
Affiliation City:	FULLERTON
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92831
Affiliation Phone:	(714) 870-7494

Affiliation Type Desc:	UST Tank Operator

COLLEGE PARK SERVICE, INC (Continued) **S109284791**

Entity Name:	COLLEGE PARK SERVICE, INC
Entity Title:	Not reported
Affiliation Address:	2601 E YORBA LINDA BLVD
Affiliation City:	FULLERTON
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92831
Affiliation Phone:	(714) 870-7494

Affiliation Type Desc:	Legal Owner
Entity Name:	COLLEGE PARK SERVICE, INC
Entity Title:	Not reported
Affiliation Address:	2601 E YORBA LINDA BLVD
Affiliation City:	FULLERTON
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92831
Affiliation Phone:	(714) 870-7494

Affiliation Type Desc:	Parent Corporation
Entity Name:	Mission Service and Parts Inc.
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	UST Tank Owner
Entity Name:	COLLEGE PARK SERVICE, INC
Entity Title:	Not reported
Affiliation Address:	2601 E YORBA LINDA BLVD
Affiliation City:	FULLERTON
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92831
Affiliation Phone:	(714) 870-7494

Affiliation Type Desc:	CUPA District
Entity Name:	Orange County Env Health
Entity Title:	Not reported
Affiliation Address:	1241 East Dyer RoadSuite 120
Affiliation City:	Santa Ana
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92705-5611
Affiliation Phone:	(714) 433-6000

Affiliation Type Desc:	Document Preparer
Entity Name:	Robert Zerby
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported

COLLEGE PARK SERVICE, INC (Continued) **S109284791**

Affiliation Phone:	Not reported
Affiliation Type Desc:	Environmental Contact
Entity Name:	Robert Zerby
Entity Title:	Not reported
Affiliation Address:	2601 YORBA LINDA BLVD
Affiliation City:	FULLERTON
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92831
Affiliation Phone:	Not reported
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	2601 E YORBA LINDA BLVD
Affiliation City:	FULLERTON
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92831
Affiliation Phone:	Not reported
Affiliation Type Desc:	Operator
Entity Name:	Alicia Davis
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(714) 870-7494
Affiliation Type Desc:	UST Permit Applicant
Entity Name:	ALICIA DAVIS
Entity Title:	OWNER
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(714) 870-7494
Affiliation Type Desc:	Identification Signer
Entity Name:	ALICIA DAVIS
Entity Title:	OWNER
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	UST Property Owner Name
Entity Name:	COLLEGE PARK SERVICE, INC
Entity Title:	Not reported
Affiliation Address:	2601 E YORBA LINDA BLVD
Affiliation City:	FULLERTON

COLLEGE PARK SERVICE, INC (Continued) **S109284791**

Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 92831
Affiliation Phone: (714) 870-7494

CERS TANKS:
Site ID: 276020
CERS ID: 10544017
Site Name: COLLEGE PARK SERVICE, INC
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 276020
Site Name: COLLEGE PARK SERVICE, INC
Violation Date: 04-11-2016
Citation: HSC 6.7 25291 - California Health and Safety Code, Chapter 6.7, Section(s) 25291
Violation Description: Failure to maintain under-dispenser containment, sumps, and/or other secondary containment in good condition and/or free of debris/liquid.
Violation Notes: Returned to compliance on 04/11/2016. Small amount of liquid present in 87 main and 87 auxillarly STP sumps. Removed at time of inspection.
Violation Division: Fullerton City Fire Department
Violation Program: UST
Violation Source: CERS

Site ID: 276020
Site Name: COLLEGE PARK SERVICE, INC
Violation Date: 04-03-2018
Citation: 23 CCR 16 2665 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2665
Violation Description: Failure of the overfill prevention system to meet one of the following requirements: Alert the transfer operator when the tank is 90 percent full by restricting the flow into the tank or triggering an audible and visual alarm; or Restrict delivery of flow to the tank at least 30 minutes before the tank overfills, provided the restriction occurs when the tank is filled to no more than 95 percent of capacity; and activate an audible alarm at least five minutes before the tank overfills; or Provide positive shut-off of flow to the tank when the tank is filled to no more than 95 percent of capacity; or Provide positive shut-off of flow to the tank so that none of the fittings located on the top of the tank are exposed to product due to overfilling.
Violation Notes: Returned to compliance on 04/03/2018. Visual annunciator on overfill alarm failed to function. Bulb replaced and retested at time of inspection.
Violation Division: Fullerton City Fire Department
Violation Program: UST
Violation Source: CERS

Site ID: 276020
Site Name: COLLEGE PARK SERVICE, INC
Violation Date: 04-04-2017
Citation: HSC 6.75 25299.30-25299.34 - California Health and Safety Code, Chapter 6.75, Section(s) 25299.30-25299.34
Violation Description: Failure to submit and maintain complete and current Certification of Financial Responsibility or other mechanism of financial assurance.

COLLEGE PARK SERVICE, INC (Continued) **S109284791**

Violation Notes: Returned to compliance on 04/04/2017. Certification of financial responsibility on CERS was out of date.
Violation Division: Fullerton City Fire Department
Violation Program: UST
Violation Source: CERS

Evaluation:

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-23-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: College Park Services 2601 E. Yorba Linda Blvd. Fullerton, CA 92831
Old DBA = Circle K New DBA = College Park Services. Change EPA ID #.
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-03-2018
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Monitor certification performed this date.
Eval Division: Fullerton City Fire Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-04-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: No violations observed.
Eval Division: Fullerton City Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-11-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: No violations observed.
Eval Division: Fullerton City Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-11-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Fullerton City Fire Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 05-13-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency

COLLEGE PARK SERVICE, INC (Continued) **S109284791**

Eval Notes:	CERS review: BA/OW pg
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	04-03-2018
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	No violations observed.
Eval Division:	Fullerton City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	04-04-2017
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Monitor certification performed this date.
Eval Division:	Fullerton City Fire Department
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	07-03-2013
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	facility sold to CIRCLE K STORES INC ON 6-19-13
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	07-19-2013
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Received emergency response plan from BEP to add to hazardous waste facility file
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-18-2016
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	On site to conduct a routine hazardous waste inspection. Consent to enter, inspect and take any necessary pictures was given by the Store Manager, Emilio Acevedo at 3:50 pm. The hazardous waste containers found here: - Gasoline Mixture (flammable liquid) = 25 gallons - Oily Absorbent = 75 pounds The hazardous waste containers were closed and labeled properly. The site maintains a spill log on-site and cleans up spills immediately. Walked the perimeter of the site, and there were no hazardous waste spills or discharges observed during this inspection. Weekly inspections are performed by the Store Manager. Emergency response information was posted. Per Mr. Acevedo the employees undergo annual training for hazardous waste management.

COLLEGE PARK SERVICE, INC (Continued) **S109284791**

	Please contact Shruthi Sill at ssill@ochca.com with regards to any questions.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	09-11-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	OCHCA received a letter from Circle K Stores stating that they are the new owners of this gas station. They were requesting an "ownership change". I visited the site and got permission to inspect by Circle K/Alicia Davis. The HW had been hauled away and the facility had manifests. This file will be closed out and the new file (Circle K) will begin. RUR submitted for College Park SRVC/Mobil R/R #11189.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS

Affiliation:

Affiliation Type Desc:	Property Owner
Entity Name:	COLLEGE PARK SERVICE, INC
Entity Title:	Not reported
Affiliation Address:	2601 E YORBA LINDA BLVD
Affiliation City:	FULLERTON
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92831
Affiliation Phone:	(714) 870-7494
Affiliation Type Desc:	UST Tank Operator
Entity Name:	COLLEGE PARK SERVICE, INC
Entity Title:	Not reported
Affiliation Address:	2601 E YORBA LINDA BLVD
Affiliation City:	FULLERTON
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92831
Affiliation Phone:	(714) 870-7494
Affiliation Type Desc:	Legal Owner
Entity Name:	COLLEGE PARK SERVICE, INC
Entity Title:	Not reported
Affiliation Address:	2601 E YORBA LINDA BLVD
Affiliation City:	FULLERTON
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92831
Affiliation Phone:	(714) 870-7494
Affiliation Type Desc:	Parent Corporation
Entity Name:	Mission Service and Parts Inc.
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported

COLLEGE PARK SERVICE, INC (Continued) **S109284791**

Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	UST Tank Owner
Entity Name:	COLLEGE PARK SERVICE, INC
Entity Title:	Not reported
Affiliation Address:	2601 E YORBA LINDA BLVD
Affiliation City:	FULLERTON
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92831
Affiliation Phone:	(714) 870-7494

Affiliation Type Desc:	CUPA District
Entity Name:	Orange County Env Health
Entity Title:	Not reported
Affiliation Address:	1241 East Dyer RoadSuite 120
Affiliation City:	Santa Ana
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92705-5611
Affiliation Phone:	(714) 433-6000

Affiliation Type Desc:	Document Preparer
Entity Name:	Robert Zerby
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Environmental Contact
Entity Name:	Robert Zerby
Entity Title:	Not reported
Affiliation Address:	2601 YORBA LINDA BLVD
Affiliation City:	FULLERTON
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92831
Affiliation Phone:	Not reported

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	2601 E YORBA LINDA BLVD
Affiliation City:	FULLERTON
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92831
Affiliation Phone:	Not reported

Affiliation Type Desc:	Operator
Entity Name:	Alicia Davis
Entity Title:	Not reported

COLLEGE PARK SERVICE, INC (Continued) **S109284791**

Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(714) 870-7494

Affiliation Type Desc:	UST Permit Applicant
Entity Name:	ALICIA DAVIS
Entity Title:	OWNER
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(714) 870-7494

Affiliation Type Desc:	Identification Signer
Entity Name:	ALICIA DAVIS
Entity Title:	OWNER
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	UST Property Owner Name
Entity Name:	COLLEGE PARK SERVICE, INC
Entity Title:	Not reported
Affiliation Address:	2601 E YORBA LINDA BLVD
Affiliation City:	FULLERTON
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92831
Affiliation Phone:	(714) 870-7494

Site ID:	215339
CERS ID:	T0605902313
Site Name:	MOBIL #18-LCC
CERS Description:	Leaking Underground Storage Tank Cleanup Site

Affiliation:

Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	ROSE SCOTT - SANTA ANA RWQCB (REGION 8)
Entity Title:	Not reported
Affiliation Address:	3737 MAIN STREET, SUITE 500
Affiliation City:	RIVERSIDE
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	9513206375

Affiliation Type Desc:	Local Agency Caseworker
Entity Name:	STEPHEN LONG - FULLERTON, CITY OF
Entity Title:	Not reported
Affiliation Address:	312 E. COMMONWEALTH AVE.

COLLEGE PARK SERVICE, INC (Continued) **S109284791**

Affiliation City:	FULLERTON
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	7147383160

H65 North < 1/8 0.032 mi. 171 ft. **EXXONMOBIL OIL CORP 11189** **RCRA-SQG 1016148109**
2601 E YORBA LINDA BLVD **FINDS CAR000239475**
FULLERTON, CA 92831 **ECHO**

Site 9 of 10 in cluster H

Relative: Higher

Actual: 266 ft.

RCRA-SQG:

Date form received by agency:	06/10/2013
Facility name:	EXXONMOBIL OIL CORP 11189
Facility address:	2601 E YORBA LINDA BLVD FULLERTON, CA 92831
EPA ID:	CAR000239475
Mailing address:	800 E WASHINGTON ST EXXONMOBIL OIL CORP C O JD2 WEST CHESTER, PA 19380
Contact:	DONNA HYMES
Contact address:	800 E WASHINGTON ST WEST CHESTER, PA 19380
Contact country:	US
Contact telephone:	610-430-8151
Contact email:	DHYMES@JD2ENV.COM
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	EXXONMOBIL OIL CORP
Owner/operator address:	Not reported Not reported
Owner/operator country:	US
Owner/operator telephone:	Not reported
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	12/01/1999
Owner/Op end date:	Not reported

Owner/operator name:	EXXONMOBIL OIL CORP
Owner/operator address:	3225 GALLOWS RD FAIRFAX, VA 22037
Owner/operator country:	US
Owner/operator telephone:	703-846-3000
Owner/operator email:	Not reported
Owner/operator fax:	Not reported

EXXONMOBIL OIL CORP 11189 (Continued) **1016148109**

Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 12/01/1999
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Hazardous Waste Summary:

. Waste code: D018
. Waste name: BENZENE

Violation Status: No violations found

FINDS:

Registry ID: 110055439903

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1016148109
Registry ID: 110055439903
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110055439903

H66 **RONALD DAVIS MOBIL (18-LCC)** **CA LUST** **S101619641**
North **2601 YORBA LINDA BLVD** **CA FID UST** **N/A**
< 1/8 **FULLERTON, CA 92631** **CA HAZNET**
0.032 mi. **CA HIST CORTESE**
171 ft. **Site 10 of 10 in cluster H**

Relative:
Higher

Actual:
266 ft.

LUST REG 8:

Region:	8
County:	Orange
Regional Board:	Santa Ana Region
Facility Status:	Pollution Characterization
Case Number:	083003521T
Local Case Num:	Not reported
Case Type:	Aquifer affected
Substance:	Gasoline
Qty Leaked:	Not reported
Abate Method:	Not reported
Cross Street:	ASSOCIATED
Enf Type:	SEL
Funding:	Responsible Party
How Discovered:	OM
How Stopped:	Not reported
Leak Cause:	UNK
Leak Source:	UNK
Global ID:	T0605902313
How Stopped Date:	7/15/1998
Enter Date:	9/1/1999
Date Confirmation of Leak Began:	8/9/1999
Date Preliminary Assessment Began:	1/19/2001
Discover Date:	7/15/1998
Enforcement Date:	Not reported
Close Date:	Not reported
Date Prelim Assessment Workplan Submitted:	5/24/2000
Date Pollution Characterization Began:	6/18/2004
Date Remediation Plan Submitted:	10/31/2002
Date Remedial Action Underway:	Not reported
Date Post Remedial Action Monitoring:	Not reported
Enter Date:	9/1/1999
GW Qualifies:	=
Soil Qualifies:	=
Operator:	Not reported
Facility Contact:	Not reported
Interim:	Not reported
Oversite Program:	LUST
Latitude:	33.8890815
Longitude:	-117.8854007
MTBE Date:	5/7/2002
Max MTBE GW:	812
MTBE Concentration:	2
Max MTBE Soil:	25
MTBE Fuel:	1
MTBE Tested:	MTBE Detected. Site tested for MTBE & MTBE detected
MTBE Class:	C
Staff:	RS
Staff Initials:	SRL
Lead Agency:	Regional Board
Local Agency:	30013
Hydr Basin #:	COASTAL PLAIN OF ORA
Beneficial:	Not reported

RONALD DAVIS MOBIL (18-LCC) (Continued) **S101619641**

Priority: Not reported
Cleanup Fund Id: Not reported
Work Suspended: No
Summary: Not reported

CA FID UST:
Facility ID: 30017778
Regulated By: UTNKA
Regulated ID: Not reported
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 7148707494
Mail To: Not reported
Mailing Address: 3800 W ALAMEDA 700 ATTN: CR
Mailing Address 2: Not reported
Mailing City,St,Zip: FULLERTON 92631
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Active

HAZNET:
Site Name: COLLEGE PARK SERVICE INC
Year: 2016
GEPAID: CAL000407178
Contact: ALICIA DAVIS
Telephone: 7148707494
Mailing Name: Not reported
Mailing Address: 2601 YORBA LINDA BLVD
Mailing City,St,Zip: FULLERTON, CA 92831
Gen County: Orange
TSD EPA ID: CAT080013352
TSD County: Los Angeles
Tons: 0.042
CA Waste Code: 134-Aqueous solution with total organic residues less than 10 percent
Method: H039-Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Facility County: Orange

Site Name: COLLEGE PARK SERVICE INC
Year: 2016
GEPAID: CAL000407178
Contact: ALICIA DAVIS
Telephone: 7148707494
Mailing Name: Not reported
Mailing Address: 2601 YORBA LINDA BLVD
Mailing City,St,Zip: FULLERTON, CA 92831
Gen County: Orange
TSD EPA ID: NVT330010000
TSD County: 99
Tons: 0.075
CA Waste Code: 352-Other organic solids
Method: H132-Landfill Or Surface Impoundment That Will Be Closed As Landfill(

RONALD DAVIS MOBIL (18-LCC) (Continued) **S101619641**

To Include On-Site Treatment And/Or Stabilization)
Facility County: Orange

HIST CORTESE:

Region:	CORTESE
Facility County Code:	30
Reg By:	LTNKA
Reg Id:	083003521T

Region:	CORTESE
Facility County Code:	30
Reg By:	LTNKA
Reg Id:	083001312T

67
SW
< 1/8
0.045 mi.
240 ft.

LA VISTA HIGH SCHOOL EXPANSION **CA ENVIROSTOR** **S107027253**
909 NORTH STATE COLLEGE BOULEVARD **CA SCH** **N/A**
FULLERTON, CA 92831

Relative:
Lower

Actual:
232 ft.

ENVIROSTOR:

Facility ID:	30000047
Status:	No Further Action
Status Date:	03/03/2006
Site Code:	404624
Site Type:	School Investigation
Site Type Detailed:	School
Acres:	4.04
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Rana Georges
Supervisor:	Shahir Haddad
Division Branch:	Southern California Schools & Brownfields Outreach
Assembly:	65
Senate:	29
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	School District
Latitude:	33.87964
Longitude:	-117.8927
APN:	283-291-02
Past Use:	NONE
Potential COC:	NONE SPECIFIED No Contaminants found
Confirmed COC:	31000-NO
Potential Description:	NMA
Alias Name:	FULLERTON JOINT USD-LA VISTA HS EXPAN
Alias Type:	Alternate Name
Alias Name:	FULLETON JOINT UNION HIGH SCHOOL DISTRIC
Alias Type:	Alternate Name
Alias Name:	283-291-02
Alias Type:	APN
Alias Name:	404624
Alias Type:	Project Code (Site Code)
Alias Name:	30000047
Alias Type:	Envirostor ID Number

LA VISTA HIGH SCHOOL EXPANSION (Continued) **S107027253**

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Cost Recovery Closeout Memo
Completed Date:	03/03/2006
Comments:	Not reported

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Workplan
Completed Date:	06/29/2005
Comments:	Draft workplan approved

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Fieldwork
Completed Date:	07/18/2005
Comments:	field oversight

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Report
Completed Date:	01/18/2006
Comments:	DTSC approved the PEA for NFA and after receiving the end of public comment period letter.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Inspections/Visit (Non LUR)
Completed Date:	05/10/2005
Comments:	Not reported

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Environmental Oversight Agreement
Completed Date:	05/23/2005
Comments:	Not reported

Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

SCH:

Facility ID:	30000047
Site Type:	School Investigation
Site Type Detail:	School
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	4.04
National Priorities List:	NO

LA VISTA HIGH SCHOOL EXPANSION (Continued) **S107027253**

Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Rana Georges
Supervisor:	Shahir Haddad
Division Branch:	Southern California Schools & Brownfields Outreach
Site Code:	404624
Assembly:	65
Senate:	29
Special Program Status:	Not reported
Status:	No Further Action
Status Date:	03/03/2006
Restricted Use:	NO
Funding:	School District
Latitude:	33.87964
Longitude:	-117.8927
APN:	283-291-02
Past Use:	NONE
Potential COC:	NONE SPECIFIED, No Contaminants found
Confirmed COC:	31000-NO
Potential Description:	NMA
Alias Name:	FULLERTON JOINT USD-LA VISTA HS EXPAN
Alias Type:	Alternate Name
Alias Name:	FULLETON JOINT UNION HIGH SCHOOL DISTRIC
Alias Type:	Alternate Name
Alias Name:	283-291-02
Alias Type:	APN
Alias Name:	404624
Alias Type:	Project Code (Site Code)
Alias Name:	30000047
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Cost Recovery Closeout Memo
Completed Date:	03/03/2006
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Workplan
Completed Date:	06/29/2005
Comments:	Draft workplan approved
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Fieldwork
Completed Date:	07/18/2005
Comments:	field oversight
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Report
Completed Date:	01/18/2006
Comments:	DTSC approved the PEA for NFA and after receiving the end of public comment period letter.

LA VISTA HIGH SCHOOL EXPANSION (Continued) **S107027253**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 05/10/2005
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 05/23/2005
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

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68 SSW < 1/8 0.046 mi. 242 ft. | **ONETECH CIRCUIT INC**
753 STATE COLLEGE UNIT 30
FULLERTON, CA 92831 | **RCRA-SQG FINDS ECHO CA HAZNET** | **1000398171 CAD982485963**

Relative: Lower
Actual: 226 ft.

RCRA-SQG:
Date form received by agency: 04/02/1990
Facility name: ONETECH CIRCUIT INC
Facility address: 753 STATE COLLEGE UNIT 30
FULLERTON, CA 92831
EPA ID: CAD982485963
Contact: ENVIRONMENTAL MANAGER
Contact address: 753 STATE COLLEGE UNIT 30
FULLERTON, CA 92631
Contact country: US
Contact telephone: 714-738-6164
Contact email: Not reported
EPA Region: 09
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: ETAC
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: 415-555-1212
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported

ONETECH CIRCUIT INC (Continued) **1000398171**

Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: 415-555-1212
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

FINDS:

Registry ID: 110006479541

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1000398171
Registry ID: 110006479541
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110006479541

ONETECH CIRCUIT INC (Continued) **1000398171**

HAZNET:

Site Name:	ONETECH CIRCUIT INC
Year:	1993
GEPAID:	CAD982485963
Contact:	--
Telephone:	--
Mailing Name:	Not reported
Mailing Address:	753 S STATE COLLEGE BLVD STE 30
Mailing City,St,Zip:	FULLERTON, CA 928315132
Gen County:	Orange
TSD EPA ID:	CAD097030993
TSD County:	Los Angeles
Tons:	0.5212
CA Waste Code:	792-Liquids with pH <= 2 with metals
Method:	T01-Treatment, Tank
Facility County:	Orange

Site Name:	ONETECH CIRCUIT INC
Year:	1993
GEPAID:	CAD982485963
Contact:	--
Telephone:	--
Mailing Name:	Not reported
Mailing Address:	753 S STATE COLLEGE BLVD STE 30
Mailing City,St,Zip:	FULLERTON, CA 928315132
Gen County:	Orange
TSD EPA ID:	CAD097030993
TSD County:	Los Angeles
Tons:	0.462
CA Waste Code:	135-Unspecified aqueous solution
Method:	T01-Treatment, Tank
Facility County:	Orange

I69 **FULLERTON FIRE STATION #5** **CA LUST** **U003939817**
NNW **2555 YORBA LINDA BLVD** **CA UST** **N/A**
< 1/8 **FULLERTON, CA 92831** **CA SWEEPS UST**
0.049 mi.
259 ft. **Site 1 of 4 in cluster I**

Relative:
Higher

Actual:
261 ft.

LUST REG 8:

Region:	8
County:	Orange
Regional Board:	Santa Ana Region
Facility Status:	Case Closed
Case Number:	083003607T
Local Case Num:	Not reported
Case Type:	Soil only
Substance:	Diesel
Qty Leaked:	Not reported
Abate Method:	Not reported
Cross Street:	ALMIRA
Enf Type:	PCN
Funding:	Not reported
How Discovered:	Tank Closure
How Stopped:	Not reported
Leak Cause:	UNK
Leak Source:	UNK

FULLERTON FIRE STATION #5 (Continued) **U003939817**

Global ID:	T0605902342
How Stopped Date:	11/15/1996
Enter Date:	1/26/2000
Date Confirmation of Leak Began:	1/10/2000
Date Preliminary Assessment Began:	Not reported
Discover Date:	11/15/1996
Enforcement Date:	Not reported
Close Date:	3/8/2004
Date Prelim Assessment Workplan Submitted:	Not reported
Date Pollution Characterization Began:	1/9/2004
Date Remediation Plan Submitted:	Not reported
Date Remedial Action Underway:	Not reported
Date Post Remedial Action Monitoring:	Not reported
Enter Date:	1/26/2000
GW Qualifies:	Not reported
Soil Qualifies:	<
Operator:	Not reported
Facility Contact:	Not reported
Interim:	Not reported
Oversite Program:	LUST
Latitude:	33.888137
Longitude:	-117.89
MTBE Date:	Not reported
Max MTBE GW:	Not reported
MTBE Concentration:	1
Max MTBE Soil:	.005
MTBE Fuel:	0
MTBE Tested:	MTBE Detected. Site tested for MTBE & MTBE detected
MTBE Class:	*
Staff:	RS
Staff Initials:	SRL
Lead Agency:	Regional Board
Local Agency:	30013
Hydr Basin #:	COASTAL PLAIN OF ORA
Beneficial:	AGR, PROC, IND, MUN
Priority:	Not reported
Cleanup Fund Id:	Not reported
Work Suspended:	No
Summary:	Not reported

UST:

Facility ID:	7428
Permitting Agency:	FULLERTON, CITY OF
Latitude:	33.890718
Longitude:	-117.885945

SWEEPS UST:

Status:	Active
Comp Number:	7428
Number:	9
Board Of Equalization:	Not reported
Referral Date:	02-12-92
Action Date:	02-12-92
Created Date:	12-31-88
Owner Tank Id:	1454
SWRCB Tank Id:	30-013-007428-000001

FULLERTON FIRE STATION #5 (Continued) **U003939817**

Tank Status:	A
Capacity:	550
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	W
Content:	GASHOL
Number Of Tanks:	1

I70
NNW
< 1/8
0.049 mi.
259 ft.

FULLERTON FIRE STATION #5
2555 YORBA LINDA BLVD
FULLERTON, CA 92631

CA CERS TANKS **S101589652**
CA FID UST **N/A**
CA HIST CORTESE
CA CERS

Site 2 of 4 in cluster I

Relative:
Higher

Actual:
261 ft.

CERS TANKS:

Facility Name:	FULLERTON FIRE STATION 5
Site ID:	32056
CERS ID:	10500883
CERS Description:	Aboveground Petroleum Storage

Evaluation:

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	03-31-2016
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	NO VIOLATONS
Eval Division:	Fullerton City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	11-12-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	CERS review: Ow/Op form accepted - marked for APSA 1734 gals diesel fuel
Eval Division:	Orange County Environmental Health
Eval Program:	APSA
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	03-09-2017
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	no violations
Eval Division:	Fullerton City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	03-15-2018
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	No violations.
Eval Division:	Fullerton City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS

FULLERTON FIRE STATION #5 (Continued) **S101589652**

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	03-22-2017
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	INSPECTOR COMMENTS On-site to conduct a routine Above ground petroleum storage tank inspection, met with Grant Miner of Fullerton Fire. Observed a 1,000 gallon diesel fuel tank and a 250 gallon diesel generator tank. Since this totals less than 1320, facility will be removed from the ASPA program.
Eval Division:	Orange County Environmental Health
Eval Program:	APSA
Eval Source:	CERS

Coordinates:

Site ID:	32056
Facility Name:	FULLERTON FIRE STATION 5
Env Int Type Code:	HMBP
Program ID:	10500883
Coord Name:	Not reported
Ref Point Type Desc:	Center of a facility or station.
Latitude:	33.889390
Longitude:	-117.887250

Affiliation:

Affiliation Type Desc:	Environmental Contact
Entity Name:	GRANT MINER
Entity Title:	Not reported
Affiliation Address:	312 E COMMONWEALTH AVE
Affiliation City:	FULLERTON
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92832
Affiliation Phone:	Not reported

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	312 E COMMONWEALTH AVE
Affiliation City:	FULLERTON
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92832
Affiliation Phone:	Not reported

Affiliation Type Desc:	Operator
Entity Name:	FULLERTON FIRE STATION 5
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(714) 738-6500

Affiliation Type Desc:	Legal Owner
Entity Name:	City of Fullerton

FULLERTON FIRE STATION #5 (Continued) **S101589652**

Entity Title:	Not reported
Affiliation Address:	312 E COMMONWEALTH AVE
Affiliation City:	FULLERTON
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92832
Affiliation Phone:	(714) 738-6500

Affiliation Type Desc:	Document Preparer
Entity Name:	Laura McClain
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	CUPA District
Entity Name:	Orange County Env Health
Entity Title:	Not reported
Affiliation Address:	1241 East Dyer RoadSuite 120
Affiliation City:	Santa Ana
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92705-5611
Affiliation Phone:	(714) 433-6000

Affiliation Type Desc:	Identification Signer
Entity Name:	Laura McClain
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Parent Corporation
Entity Name:	FULLERTON FIRE STATION HEADQUARTERS
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

CA FID UST:

Facility ID:	30017785
Regulated By:	UTNKA
Regulated ID:	Not reported
Cortese Code:	Not reported
SIC Code:	Not reported
Facility Phone:	Not reported
Mail To:	Not reported

FULLERTON FIRE STATION #5 (Continued) **S101589652**

Mailing Address: 303 COMMONWEALTH
Mailing Address 2: Not reported
Mailing City,St,Zip: FULLERTON 92631
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Active

HIST CORTESE:
Region: CORTESE
Facility County Code: 30
Reg By: LTNKA
Reg Id: 083003607T

CERS TANKS:
Site ID: 32056
CERS ID: 10500883
Site Name: FULLERTON FIRE STATION 5
CERS Description: Chemical Storage Facilities

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-31-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: NO VIOLATONS
Eval Division: Fullerton City Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 11-12-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: CERS review: Ow/Op form accepted - marked for APSA 1734 gals diesel fuel
Eval Division: Orange County Environmental Health
Eval Program: APSA
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-09-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: no violations
Eval Division: Fullerton City Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-15-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: No violations.

FULLERTON FIRE STATION #5 (Continued) **S101589652**

Eval Division:	Fullerton City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	03-22-2017
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	INSPECTOR COMMENTS On-site to conduct a routine Above ground petroleum storage tank inspection, met with Grant Miner of Fullerton Fire. Observed a 1,000 gallon diesel fuel tank and a 250 gallon diesel generator tank. Since this totals less than 1320, facility will be removed from the ASPA program.
Eval Division:	Orange County Environmental Health
Eval Program:	APSA
Eval Source:	CERS

Coordinates:

Site ID:	32056
Facility Name:	FULLERTON FIRE STATION 5
Env Int Type Code:	HMBP
Program ID:	10500883
Coord Name:	Not reported
Ref Point Type Desc:	Center of a facility or station.
Latitude:	33.889390
Longitude:	-117.887250

Affiliation:

Affiliation Type Desc:	Environmental Contact
Entity Name:	GRANT MINER
Entity Title:	Not reported
Affiliation Address:	312 E COMMONWEALTH AVE
Affiliation City:	FULLERTON
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92832
Affiliation Phone:	Not reported
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	312 E COMMONWEALTH AVE
Affiliation City:	FULLERTON
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92832
Affiliation Phone:	Not reported
Affiliation Type Desc:	Operator
Entity Name:	FULLERTON FIRE STATION 5
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported

FULLERTON FIRE STATION #5 (Continued) **S101589652**

Affiliation Phone:	(714) 738-6500

Affiliation Type Desc:	Legal Owner
Entity Name:	City of Fullerton
Entity Title:	Not reported
Affiliation Address:	312 E COMMONWEALTH AVE
Affiliation City:	FULLERTON
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92832
Affiliation Phone:	(714) 738-6500

Affiliation Type Desc:	Document Preparer
Entity Name:	Laura McClain
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	CUPA District
Entity Name:	Orange County Env Health
Entity Title:	Not reported
Affiliation Address:	1241 East Dyer RoadSuite 120
Affiliation City:	Santa Ana
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92705-5611
Affiliation Phone:	(714) 433-6000

Affiliation Type Desc:	Identification Signer
Entity Name:	Laura McClain
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Parent Corporation
Entity Name:	FULLERTON FIRE STATION HEADQUARTERS
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

I71 NNW < 1/8 0.049 mi. 259 ft. | **FULLERTON FIRE STATION #5**
2555 E YORBA LINDA BLVD
FULLERTON, CA 92831 | **CA LUST**
CA AST
CA CERS | **S103956714**
N/A

Site 3 of 4 in cluster I

Relative: Higher

Actual: 261 ft.

LUST:

Lead Agency:	SANTA ANA RWQCB (REGION 8)
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0605902342
Global Id:	T0605902342
Latitude:	33.889401
Longitude:	-117.887284
Status:	Completed - Case Closed
Status Date:	03/08/2004
Case Worker:	RS
RB Case Number:	083003607T
Local Agency:	FULLERTON, CITY OF
File Location:	Regional Board
Local Case Number:	Not reported
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Diesel
Site History:	Not reported

LUST:

Global Id:	T0605902342
Contact Type:	Regional Board Caseworker
Contact Name:	ROSE SCOTT
Organization Name:	SANTA ANA RWQCB (REGION 8)
Address:	3737 MAIN STREET, SUITE 500
City:	RIVERSIDE
Email:	rose.scott@waterboards.ca.gov
Phone Number:	9513206375

LUST:

Global Id:	T0605902342
Action Type:	ENFORCEMENT
Date:	03/08/2004
Action:	Closure/No Further Action Letter
Global Id:	T0605902342
Action Type:	ENFORCEMENT
Date:	02/06/2004
Action:	Site Visit / Inspection / Sampling
Global Id:	T0605902342
Action Type:	ENFORCEMENT
Date:	03/08/2004
Action:	Notification - Preclosure
Global Id:	T0605902342
Action Type:	Other
Date:	01/10/2000
Action:	Leak Reported
Global Id:	T0605902342
Action Type:	ENFORCEMENT
Date:	12/31/2003
Action:	* Historical Enforcement

FULLERTON FIRE STATION #5 (Continued) **S103956714**

Global Id: T0605902342
Action Type: Other
Date: 11/15/1996
Action: Leak Discovery

Global Id: T0605902342
Action Type: RESPONSE
Date: 01/30/2004
Action: Soil and Water Investigation Report

Global Id: T0605902342
Action Type: Other
Date: 11/15/1996
Action: Leak Stopped

LUST:
Global Id: T0605902342
Status: Completed - Case Closed
Status Date: 03/08/2004

Global Id: T0605902342
Status: Open - Case Begin Date
Status Date: 11/15/1996

Global Id: T0605902342
Status: Open - Site Assessment
Status Date: 01/10/2000

Global Id: T0605902342
Status: Open - Site Assessment
Status Date: 01/09/2004

AST:
Certified Unified Program Agencies: Not reported
Owner: CITY OF FULLERTON
Total Gallons: Not reported
CERSID: 10500883
Facility ID: Not reported
Business Name: FULLERTON FIRE STATION HEADQUARTERS
Phone: 7147386500
Fax: Not reported
Mailing Address: 312 E COMMONWEALTH AVE
Mailing Address City: FULLERTON
Mailing Address State: CA
Mailing Address Zip Code: 92832
Operator Name: FULLERTON FIRE STATION 5
Operator Phone: 7147386500
Owner Phone: 7147386500
Owner Mail Address: 312 E COMMONWEALTH AVE
Owner State: CA
Owner Zip Code: 92832
Owner Country: United States
Property Owner Name: Not reported
Property Owner Phone: Not reported
Property Owner Mailing Address: Not reported

FULLERTON FIRE STATION #5 (Continued) **S103956714**

Property Owner City:	Not reported
Property Owner Stat :	Not reported
Property Owner Zip Code:	Not reported
Property Owner Country:	Not reported
EPAID:	Not reported

CERS TANKS:

Site ID:	250829
CERS ID:	T0605902342
Site Name:	FULLERTON FIRE STATION #5
CERS Description:	Leaking Underground Storage Tank Cleanup Site

Affiliation:

Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	ROSE SCOTT - SANTA ANA RWQCB (REGION 8)
Entity Title:	Not reported
Affiliation Address:	3737 MAIN STREET, SUITE 500
Affiliation City:	RIVERSIDE
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	9513206375

I72 **FIRE DEPT STA 5** **CA HIST UST** **U001577020**
NNW **2555 YORBA LINDA BLVD** **N/A**
< 1/8 **FULLERTON, CA 92632**
0.049 mi.
259 ft. **Site 4 of 4 in cluster I**

Relative:
Higher

Actual:
261 ft.

HIST UST:

File Number:	0002E78E
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002E78E.pdf
Region:	STATE
Facility ID:	00000027535
Facility Type:	Other
Other Type:	FIREHOUSE
Contact Name:	TOM THOMPSON
Telephone:	7147386518
Owner Name:	CITY OF FULLERTON
Owner Address:	303 W. COMMONWEALTH
Owner City,St,Zip:	FULLERTON, CA 92632
Total Tanks:	0001
Tank Num:	001
Container Num:	F25
Year Installed:	1964
Tank Capacity:	00000550
Tank Used for:	PRODUCT
Type of Fuel:	DIESEL
Container Construction Thickness:	Not reported
Leak Detection:	None

Click here for Geo Tracker PDF:

J73
South
< 1/8
0.084 mi.
442 ft.

HOLIDAY ONE HOUR CLEANERS INC
2601 E CHAPMAN AVE
FULLERTON, CA 92831

EDR Hist Cleaner **1020005625**
N/A

Site 1 of 2 in cluster J

Relative:
Lower

Actual:
226 ft.

EDR Hist Cleaner

Year:	Name:	Type:
2001	HOLIDAY ONE HOUR CLEANERS INC	Drycleaning Plants, Except Rugs, NEC
2002	HOLIDAY ONE HOUR CLEANERS INC	Drycleaning Plants, Except Rugs, NEC
2003	HOLIDAY ONE HOUR CLEANERS INC	Drycleaning Plants, Except Rugs, NEC
2004	HOLIDAY ONE HOUR CLEANERS INC	Drycleaning Plants, Except Rugs, NEC
2005	HOLIDAY ONE HOUR CLEANERS INC	Drycleaning Plants, Except Rugs, NEC
2006	HOLIDAY ONE HOUR CLEANERS INC	Drycleaning Plants, Except Rugs, NEC
2007	HOLIDAY ONE HOUR CLEANERS INC	Drycleaning Plants, Except Rugs, NEC
2008	HOLIDAY ONE HOUR CLEANERS INC	Drycleaning Plants, Except Rugs, NEC
2009	HOLIDAY ONE HOUR CLEANERS INC	Drycleaning Plants, Except Rugs, NEC

74
SSE
< 1/8
0.094 mi.
497 ft.

TOP GUN RETAIL SERVICES LLC
2701 E CHAPMAN AVE
FULLERTON, CA 92831

EDR Hist Cleaner **1018804194**
N/A

Relative:
Lower

Actual:
226 ft.

EDR Hist Cleaner

Year:	Name:	Type:
2005	TOP GUNRETAIL SERVICES	Laundry And Drycleaner Agents
2006	TOP GUNRETAIL SERVICES	Laundry And Drycleaner Agents
2007	TOP GUN RETAIL SERVICES LLC	Laundry And Drycleaner Agents
2008	TOP GUN RETAIL SERVICES LLC	Laundry And Drycleaner Agents
2009	TOP GUN RETAIL SERVICES LLC	Laundry And Drycleaner Agents
2010	TOP GUN RETAIL SERVICES LLC	Laundry And Drycleaner Agents
2011	TOP GUN RETAIL SERVICES LLC	Laundry And Drycleaner Agents
2012	TOP GUN RETAIL SERVICES LLC	Laundry And Drycleaner Agents
2013	TOP GUN RETAIL SERVICES LLC	Laundry And Drycleaner Agents
2014	TOP GUN RETAIL SERVICES LLC	Laundry And Drycleaner Agents

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J75
South
< 1/8
0.099 mi.
524 ft.

OGGI'S PIZZA AND BREWHOUSE
2595 E CHAPMAN AVE
FULLERTON, CA 92831

CA CERS HAZ WASTE **S123521759**
CA CERS **N/A**

Site 2 of 2 in cluster J

Relative:
Lower

Actual:
225 ft.

CERS HAZ WASTE:

Site ID:	440840
CERS ID:	10767847
CERS Description:	Hazardous Chemical Management

Violations:

Site ID:	440840
Site Name:	Oggi's Pizza and Brewhouse
Violation Date:	05-01-2018
Citation:	HSC 6.95 25507 - California Health and Safety Code, Chapter 6.95, Section(s) 25507
Violation Description:	Failure to adequately establish and implement a business plan when storing/handling a hazardous material at or above reportable quantities.

OGGI'S PIZZA AND BREWHOUSE (Continued) **S123521759**

Violation Notes:	Returned to compliance on 08/02/2018.
Violation Division:	Fullerton City Fire Department
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	440840
Site Name:	Oggi's Pizza and Brewhouse
Violation Date:	07-11-2018
Citation:	HSC 6.95 25507 - California Health and Safety Code, Chapter 6.95, Section(s) 25507
Violation Description:	Failure to adequately establish and implement a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes:	Returned to compliance on 08/02/2018.
Violation Division:	Fullerton City Fire Department
Violation Program:	HMRRP
Violation Source:	CERS

Evaluation:

Eval General Type:	Other/Unknown
Eval Date:	07-11-2018
Violations Found:	Yes
Eval Type:	Other, not routine, done by local agency
Eval Notes:	non compliance - second notice issued
Eval Division:	Fullerton City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	05-01-2018
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Initial inspection done by David Nakagami. Instructed business owner to disclose CO2
Eval Division:	Fullerton City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS

Coordinates:

Site ID:	440840
Facility Name:	Oggi's Pizza and Brewhouse
Env Int Type Code:	CalARP
Program ID:	10767847
Coord Name:	Not reported
Ref Point Type Desc:	Center of a facility or station.
Latitude:	33.874340
Longitude:	-117.884530

Affiliation:

Affiliation Type Desc:	Document Preparer
Entity Name:	RAVI PATEL
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported

OGGI'S PIZZA AND BREWHOUSE (Continued) **S123521759**

Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	2595 e. Chapman ave.
Affiliation City:	Fullerton
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92831
Affiliation Phone:	Not reported
Affiliation Type Desc:	Parent Corporation
Entity Name:	Oggi's Pizza and Brewhouse
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Environmental Contact
Entity Name:	Pintu Patel
Entity Title:	Not reported
Affiliation Address:	2595 E Chapman Ave
Affiliation City:	Fullerton
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92831
Affiliation Phone:	Not reported
Affiliation Type Desc:	Identification Signer
Entity Name:	Ravi Patel
Entity Title:	owner
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Property Owner
Entity Name:	RAVI PATEL
Entity Title:	Not reported
Affiliation Address:	13577 Williamson Rd.
Affiliation City:	Rancho Cucamonga
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	91739
Affiliation Phone:	(714) 526-4447
Affiliation Type Desc:	Legal Owner
Entity Name:	RAVI PATEL
Entity Title:	Not reported
Affiliation Address:	13577 Williamson Rd.

OGGI'S PIZZA AND BREWHOUSE (Continued) **S123521759**

Affiliation City:	Rancho Cucamonga
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	91739
Affiliation Phone:	(909) 560-9022
Affiliation Type Desc:	CUPA District
Entity Name:	Orange County Env Health
Entity Title:	Not reported
Affiliation Address:	1241 East Dyer RoadSuite 120
Affiliation City:	Santa Ana
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92705-5611
Affiliation Phone:	(714) 433-6000
Affiliation Type Desc:	Operator
Entity Name:	RAVI PATEL
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(909) 560-9022

CERS TANKS:

Site ID:	440840
CERS ID:	10767847
Site Name:	OGGI'S PIZZA AND BREWHOUSE
CERS Description:	Chemical Storage Facilities

Violations:

Site ID:	440840
Site Name:	Oggi's Pizza and Brewhouse
Violation Date:	05-01-2018
Citation:	HSC 6.95 25507 - California Health and Safety Code, Chapter 6.95, Section(s) 25507
Violation Description:	Failure to adequately establish and implement a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes:	Returned to compliance on 08/02/2018.
Violation Division:	Fullerton City Fire Department
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	440840
Site Name:	Oggi's Pizza and Brewhouse
Violation Date:	07-11-2018
Citation:	HSC 6.95 25507 - California Health and Safety Code, Chapter 6.95, Section(s) 25507
Violation Description:	Failure to adequately establish and implement a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes:	Returned to compliance on 08/02/2018.
Violation Division:	Fullerton City Fire Department

OGGI'S PIZZA AND BREWHOUSE (Continued) **S123521759**

Violation Program: HMRRP
Violation Source: CERS

Evaluation:
Eval General Type: Other/Unknown
Eval Date: 07-11-2018
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: non compliance - second notice issued
Eval Division: Fullerton City Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 05-01-2018
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Initial inspection done by David Nakagami. Instructed business owner to disclose CO2
Eval Division: Fullerton City Fire Department
Eval Program: HMRRP
Eval Source: CERS

Coordinates:
Site ID: 440840
Facility Name: Oggi's Pizza and Brewhouse
Env Int Type Code: CalARP
Program ID: 10767847
Coord Name: Not reported
Ref Point Type Desc: Center of a facility or station.
Latitude: 33.874340
Longitude: -117.884530

Affiliation:
Affiliation Type Desc: Document Preparer
Entity Name: RAVI PATEL
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 2595 e. Chapman ave.
Affiliation City: Fullerton
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92831
Affiliation Phone: Not reported

Affiliation Type Desc: Parent Corporation
Entity Name: Oggi's Pizza and Brewhouse

OGGI'S PIZZA AND BREWHOUSE (Continued) **S123521759**

Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Environmental Contact
Entity Name:	Pintu Patel
Entity Title:	Not reported
Affiliation Address:	2595 E Chapman Ave
Affiliation City:	Fullerton
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92831
Affiliation Phone:	Not reported

Affiliation Type Desc:	Identification Signer
Entity Name:	Ravi Patel
Entity Title:	owner
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Property Owner
Entity Name:	RAVI PATEL
Entity Title:	Not reported
Affiliation Address:	13577 Williamson Rd.
Affiliation City:	Rancho Cucamonga
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	91739
Affiliation Phone:	(714) 526-4447

Affiliation Type Desc:	Legal Owner
Entity Name:	RAVI PATEL
Entity Title:	Not reported
Affiliation Address:	13577 Williamson Rd.
Affiliation City:	Rancho Cucamonga
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	91739
Affiliation Phone:	(909) 560-9022

Affiliation Type Desc:	CUPA District
Entity Name:	Orange County Env Health
Entity Title:	Not reported
Affiliation Address:	1241 East Dyer RoadSuite 120
Affiliation City:	Santa Ana
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92705-5611
Affiliation Phone:	(714) 433-6000

OGGI'S PIZZA AND BREWHOUSE (Continued) **S123521759**

Affiliation Type Desc:	Operator
Entity Name:	RAVI PATEL
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(909) 560-9022

K76 **TRIGEN-LA ENERGY CORP** **CA HIST UST** **U001576965**
South **2501 COLLEGE PLACE** **CA CERS** **N/A**
< 1/8 **FULLERTON, CA 92831**
0.109 mi.
576 ft. **Site 1 of 4 in cluster K**

Relative:
Lower

Actual:
230 ft.

HIST UST:

File Number:	Not reported
URL:	Not reported
Region:	STATE
Facility ID:	00000020370
Facility Type:	Other
Other Type:	CENTRAL HEATING/COOL
Contact Name:	HARRY KANGAS
Telephone:	7148793450
Owner Name:	CENTRAL PLANTS, INC.
Owner Address:	6055 E. WASHINGTON BLVD.
Owner City,St,Zip:	COMMERCE, CA 90040
Total Tanks:	0001
Tank Num:	001
Container Num:	1
Year Installed:	1977
Tank Capacity:	00020000
Tank Used for:	PRODUCT
Type of Fuel:	DIESEL
Container Construction Thickness:	.372
Leak Detection:	Stock Inventor

CERS TANKS:

Site ID:	500307
CERS ID:	110009555098
Site Name:	TRIGEN-LA ENERGY CORP
CERS Description:	US EPA Air Emission Inventory System (EIS)

L77 SE < 1/8 0.111 mi. 584 ft. | **MOONRAKER APARTMENTS LLC 2901 NUTWOOD AVE FULLERTON, CA 92831** | **RCRA NonGen / NLR** | **1024755685 CAC002975510**

Site 1 of 2 in cluster L

Relative: Lower

Actual: 240 ft.

RCRA NonGen / NLR:

Date form received by agency:	08/13/2018
Facility name:	MOONRAKER APARTMENTS LLC
Facility address:	2901 NUTWOOD AVE FULLERTON, CA 92831
EPA ID:	CAC002975510
Contact:	JUAN DIAZ
Contact address:	2901 NUTWOOD AVE FULLERTON, CA 92831
Contact country:	Not reported
Contact telephone:	657-248-9893
Contact email:	TONY.PADILLA@ATIRESTORATION.COM
EPA Region:	09
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	MOONRAKER APARTMENTS LLC
Owner/operator address:	2901 NUTWOOD AVE FULLERTON, CA 92831
Owner/operator country:	Not reported
Owner/operator telephone:	657-248-9893
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Other
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	JUAN DIAZ
Owner/operator address:	2901 NUTWOOD AVE FULLERTON, CA 92831
Owner/operator country:	Not reported
Owner/operator telephone:	657-248-9893
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Other
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	Yes
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No

MOONRAKER APARTMENTS LLC (Continued) **1024755685**

Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Violation Status: No violations found

K78
South
< 1/8
0.112 mi.
590 ft.

COLLEGE PARK PLANT
2501 E COLLEGE PL
FULLERTON, CA 92631

CA SWEEPS UST **S101619639**
CA HIST UST **N/A**
CA FID UST

Site 2 of 4 in cluster K

Relative:
Lower

Actual:
230 ft.

SWEEPS UST:

Status:	Active
Comp Number:	4652
Number:	9
Board Of Equalization:	Not reported
Referral Date:	02-11-92
Action Date:	02-11-92
Created Date:	12-31-88
Owner Tank Id:	662
SWRCB Tank Id:	30-013-004652-000002
Tank Status:	A
Capacity:	20000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	W
Content:	GASHOL
Number Of Tanks:	1

HIST UST:

File Number:	0002E6B5
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002E6B5.pdf
Region:	Not reported
Facility ID:	Not reported
Facility Type:	Not reported
Other Type:	Not reported
Contact Name:	Not reported
Telephone:	Not reported
Owner Name:	Not reported
Owner Address:	Not reported
Owner City,St,Zip:	Not reported
Total Tanks:	Not reported
Tank Num:	Not reported
Container Num:	Not reported
Year Installed:	Not reported
Tank Capacity:	Not reported
Tank Used for:	Not reported
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	Not reported

COLLEGE PARK PLANT (Continued) **S101619639**

Click here for Geo Tracker PDF:

CA FID UST:

Facility ID:	30016293
Regulated By:	UTNKA
Regulated ID:	Not reported
Cortese Code:	Not reported
SIC Code:	Not reported
Facility Phone:	7148793450
Mail To:	Not reported
Mailing Address:	6055 E WASHINGTON BLVD
Mailing Address 2:	Not reported
Mailing City,St,Zip:	FULLERTON 92631
Contact:	Not reported
Contact Phone:	Not reported
DUNs Number:	Not reported
NPDES Number:	Not reported
EPA ID:	Not reported
Comments:	Not reported
Status:	Active

K79 **COLLEGE PARK PLANT** **CA UST** **U003804569**
South **2501 COLLEGE PL** **N/A**
< 1/8 **FULLERTON, CA 92831**
0.112 mi.
590 ft. **Site 3 of 4 in cluster K**

Relative:
Lower
Actual:
230 ft.

UST:

Facility ID:	4652
Permitting Agency:	FULLERTON, CITY OF
Latitude:	33.87574
Longitude:	-117.88584

K80 **FIVEPLANTS ASSN COLLEGE PARK** **RCRA-SQG** **1000209626**
South **2501 COLLEGE PL** **FINDS** **CAT000623934**
< 1/8 **FULLERTON, CA 92831** **ECHO**
0.112 mi.
590 ft. **Site 4 of 4 in cluster K**

Relative:
Lower
Actual:
230 ft.

RCRA-SQG:

Date form received by agency:	09/01/1996
Facility name:	FIVEPLANTS ASSN COLLEGE PARK
Facility address:	2501 COLLEGE PL FULLERTON, CA 92831
EPA ID:	CAT000623934
Mailing address:	P.O. BOX THIRD THOUSAND SECOND CULVER CITY, CA 90230
Contact:	Not reported
Contact address:	Not reported Not reported
Contact country:	US
Contact telephone:	Not reported
Contact email:	Not reported
EPA Region:	09
Land type:	Facility is not located on Indian land. Additional information is not known.
Classification:	Small Small Quantity Generator

FIVEPLANTS ASSN COLLEGE PARK (Continued) **1000209626**

Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	FIVEPLANTS ASSOCIATES
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	415-555-1212
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	NOT REQUIRED
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	415-555-1212
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Historical Generators:

Date form received by agency:	08/18/1980
Site name:	FIVEPLANTS ASSN COLLEGE PARK
Classification:	Large Quantity Generator

FIVEPLANTS ASSN COLLEGE PARK (Continued) **1000209626**

Facility Has Received Notices of Violations:
Regulation violated: FR - 262.10-12.A
Area of violation: Generators - General
Date violation determined: 04/11/1991
Date achieved compliance: 04/11/1996
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:
Evaluation date: 04/11/1991
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 04/11/1996
Evaluation lead agency: State Contractor/Grantee

FINDS:

Registry ID: 110009555098

Environmental Interest/Information System
HAZARDOUS AIR POLLUTANT MAJOR

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1000209626
Registry ID: 110009555098
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110009555098

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81 East 1/8-1/4 0.129 mi. 679 ft. | **KMF FULLERTON LLC** | **RCRA NonGen / NLR** | **1024767150**
2800 MADISON AVE UNIT G9 | **CAC002987024**
FULLERTON, CA 92831

Relative: Higher
Actual: 254 ft.

RCRA NonGen / NLR:
Date form received by agency: 10/29/2018
Facility name: KMF FULLERTON LLC
Facility address: 2800 MADISON AVE UNIT G9
FULLERTON, CA 92831
EPA ID: CAC002987024

KMF FULLERTON LLC (Continued) **1024767150**

Contact:	CAROL KOCH
Contact address:	2800 MADISON AVE UNIT G9 FULLERTON, CA 92831
Contact country:	Not reported
Contact telephone:	714-524-6732
Contact email:	FAVILA@BURNS-ENVIRO.COM
EPA Region:	09
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	CAROL KOCH
Owner/operator address:	2800 MADISON AVE UNIT G9 FULLERTON, CA 92831
Owner/operator country:	Not reported
Owner/operator telephone:	714-524-6732
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Other
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	KMF FULLERTON LLC
Owner/operator address:	PO BOX 1422 CENTREVILLE, VA 20122
Owner/operator country:	Not reported
Owner/operator telephone:	714-524-6732
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Other
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Violation Status: No violations found

L82 SE 1/8-1/4 0.134 mi. 705 ft. | **PLACENTIA PLANT**
500 PLACENTIA AVENUE
PLACENTIA, CA 92670
Site 2 of 2 in cluster L | **CA HIST UST** | **U001577734**
N/A

Relative: Lower
Actual: 240 ft.

HIST UST:

File Number:	0002ED72
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002ED72.pdf
Region:	STATE
Facility ID:	00000021901
Facility Type:	Other
Other Type:	DISTRIBUTION CENTER
Contact Name:	Not reported
Telephone:	7149967910
Owner Name:	S.B. THOMAS
Owner Address:	930 NORTH RIVERVIEW DRIVE
Owner City,St,Zip:	TOTOWA, NJ 07512
Total Tanks:	0003
Tank Num:	001
Container Num:	1CA
Year Installed:	1977
Tank Capacity:	00010000
Tank Used for:	PRODUCT
Type of Fuel:	REGULAR
Container Construction Thickness:	Not reported
Leak Detection:	Visual, 10
Tank Num:	002
Container Num:	2CA
Year Installed:	1977
Tank Capacity:	00010000
Tank Used for:	PRODUCT
Type of Fuel:	DIESEL
Container Construction Thickness:	Not reported
Leak Detection:	Visual, 10
Tank Num:	003
Container Num:	3CA
Year Installed:	1977
Tank Capacity:	00010000
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	Visual, 10

Click here for Geo Tracker PDF:

M83 SE 1/8-1/4 0.158 mi. 832 ft. | **CHEVRON STATION #96091**
2950 NUTWOOD AVE
FULLERTON, CA 92631
Site 1 of 11 in cluster M | **CA FID UST** | **S101589422**
N/A

Relative: Lower
Actual: 240 ft.

CA FID UST:

Facility ID:	30011566
Regulated By:	UTNKA
Regulated ID:	Not reported
Cortese Code:	Not reported

CHEVRON STATION #96091 (Continued) **S101589422**

SIC Code:	Not reported
Facility Phone:	7145280302
Mail To:	Not reported
Mailing Address:	ATTN: ROGER UHDEN P
Mailing Address 2:	Not reported
Mailing City,St,Zip:	FULLERTON 92631
Contact:	Not reported
Contact Phone:	Not reported
DUNs Number:	Not reported
NPDES Number:	Not reported
EPA ID:	Not reported
Comments:	Not reported
Status:	Active

M84 **96091** **CA HIST UST** **U001576959**
SE **2950 NUTWOOD AVE** **N/A**
1/8-1/4 **FULLERTON, CA 92631**
0.158 mi.
832 ft. **Site 2 of 11 in cluster M**

Relative:
Lower

Actual:
240 ft.

HIST UST:

File Number:	Not reported
URL:	Not reported
Region:	STATE
Facility ID:	00000062845
Facility Type:	Gas Station
Other Type:	Not reported
Contact Name:	CO BRANDED OUTLET-CHEVRON
Telephone:	7149619451
Owner Name:	CHEVRON U.S.A. INC.
Owner Address:	575 MARKET
Owner City,St,Zip:	SAN FRANCISCO, CA 94105
Total Tanks:	0004
Tank Num:	001
Container Num:	1
Year Installed:	1972
Tank Capacity:	00005000
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Container Construction Thickness:	0000250
Leak Detection:	Stock Inventor
Tank Num:	002
Container Num:	2
Year Installed:	1972
Tank Capacity:	00010000
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Container Construction Thickness:	0000250
Leak Detection:	Stock Inventor
Tank Num:	003
Container Num:	3
Year Installed:	1972
Tank Capacity:	00010000
Tank Used for:	PRODUCT
Type of Fuel:	Not reported

96091 (Continued) **U001576959**

Container Construction Thickness:	0000250
Leak Detection:	Stock Inventor
Tank Num:	004
Container Num:	4
Year Installed:	1972
Tank Capacity:	00001000
Tank Used for:	WASTE
Type of Fuel:	Not reported
Container Construction Thickness:	0000130
Leak Detection:	Stock Inventor

M85 **H&S #26** **CA CERS HAZ WASTE** **S113468674**
SE **2950 NUTWOOD AVE** **CA CERS TANKS** **N/A**
1/8-1/4 **FULLERTON, CA 92831** **CA HAZNET**
0.158 mi. **CA CERS**
832 ft. **Site 3 of 11 in cluster M**

Relative:
Lower

Actual:
240 ft.

CERS HAZ WASTE:

Site ID:	121812
CERS ID:	10412701
CERS Description:	Hazardous Waste Generator

Violations:

Site ID:	121812
Site Name:	H&S #26
Violation Date:	07-13-2017
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes:	Returned to compliance on 07/18/2017. Quantity of Carbon Dioxide submitted on inventory was incorrect.
Violation Division:	Fullerton City Fire Department
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	121812
Site Name:	H&S #26
Violation Date:	07-21-2015
Citation:	23 CCR 16 2715(c)(2) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(c)(2)
Violation Description:	Failure to comply with one or more of the following: maintain the spill bucket in good condition, containment free of debris/liquid, and/or to remove the contents of the spill bucket when a release/leak/spill was observed.
Violation Notes:	Returned to compliance on 07/21/2015. 87 fill bucket failed testing. Replaced and retested at time of inspection.
Violation Division:	Fullerton City Fire Department
Violation Program:	UST
Violation Source:	CERS
Site ID:	121812
Site Name:	H&S #26
Violation Date:	07-30-2018
Citation:	23 CCR 16 2665 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2665

H&S #26 (Continued) **S113468674**

Violation Description: Failure of the overfill prevention system to meet one of the following requirements: Alert the transfer operator when the tank is 90 percent full by restricting the flow into the tank or triggering an audible and visual alarm; or Restrict delivery of flow to the tank at least 30 minutes before the tank overfills, provided the restriction occurs when the tank is filled to no more than 95 percent of capacity; and activate an audible alarm at least five minutes before the tank overfills; or Provide positive shut-off of flow to the tank when the tank is filled to no more than 95 percent of capacity; or Provide positive shut-off of flow to the tank so that none of the fittings located on the top of the tank are exposed to product due to overfilling.
Violation Notes: Returned to compliance on 07/30/2018. The light on the overfill alarm failed to function. Replaced at time of inspection.
Violation Division: Fullerton City Fire Department
Violation Program: UST
Violation Source: CERS

Site ID: 121812
Site Name: H&S #26
Violation Date: 12-27-2018
Citation: 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description: Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes: Returned to compliance on 12/27/2018. Observed the following containers to be missing the accumulation start date, physical property and hazardous property: -one 55 gallon drum of gasoline contaminated debris -one 55 gallon drum of gasoline contaminated water Labels were completed during inspection. Violation corrected on site.
Violation Division: Orange County Environmental Health
Violation Program: HW
Violation Source: CERS

Site ID: 121812
Site Name: H&S #26
Violation Date: 07-21-2015
Citation: 23 CCR 16 2715 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715
Violation Description: Failure to comply with one or more of the designated operator monthly inspection requirements: failed to inspect the monthly alarm history report; attach a copy of the alarm history; failed to inspect for the presence of liquid or debris in the spill container/spill bucket and under dispenser containment; failed to inspect the under dispenser containment to ensure that monitoring equipment is placed in the proper position; failure to inspect for liquid or debris in the containment sump where an alarm occurred or for which there is no record of a service visit; or failure to check that all testing and maintenance has been completed and documented.
Violation Notes: Returned to compliance on 07/21/2015. D.O. inspection report failed to identify the cause of and response to 1/29/15 alarm of 87 fill sump sensor.
Violation Division: Fullerton City Fire Department
Violation Program: UST

H&S #26 (Continued) **S113468674**

Violation Source: CERS

Site ID: 121812
Site Name: H&S #26
Violation Date: 07-30-2018
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit a site map with all required content.
Violation Notes: Returned to compliance on 08/15/2018. Site map did not include sewer and storm drain locations.
Violation Division: Fullerton City Fire Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 121812
Site Name: H&S #26
Violation Date: 07-23-2014
Citation: HSC 6.7 25291 - California Health and Safety Code, Chapter 6.7, Section(s) 25291
Violation Description: Failure to install leak detection equipment correct for the type of system.
Violation Notes: Not reported
Violation Division: Orange County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 121812
Site Name: H&S #26
Violation Date: 07-30-2018
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes: Returned to compliance on 08/15/2018. Max and average daily amounts for Carbon Dioxide were incorrect.
Violation Division: Fullerton City Fire Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 121812
Site Name: H&S #26
Violation Date: 07-13-2017
Citation: 23 CCR 16 2641(j) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2641(j)
Violation Description: Failure of the leak detection equipment to be installed, calibrated, operated, and/or maintained properly.
Violation Notes: Returned to compliance on 07/13/2017. Sensor in diesel fill sump and 91 fill sump were not properly aligned. Corrected at time of inspection.
Violation Division: Fullerton City Fire Department
Violation Program: UST
Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection

H&S #26 (Continued) **S113468674**

Eval Date:	07-13-2017
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Fullerton City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-21-2016
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Fullerton City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-25-2013
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	PLEASE SUBMIT CURRENT FINANCIAL RESPONSIBLITY DOCUMENTATION VIA CERS OR ESUBMIT. PLEASE ENTER UST A&B FORMS MONITORING PLAN AND RESPONSE PLAN VIA ESUBMIT OR CERS.
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-30-2018
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Fullerton City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-30-2018
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Monitor certification performed this date
Eval Division:	Fullerton City Fire Department
Eval Program:	UST
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	09-18-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Not reported
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	12-27-2018

H&S #26 (Continued) **S113468674**

Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Facility generates the following hazardous waste: -gasoline contaminated debris (absorbent, hoses, rags) -water contaminated with gasoline Facility reported 30 employees.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-13-2017
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Fullerton City Fire Department
Eval Program:	UST
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-21-2015
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	No violations observed
Eval Division:	Fullerton City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-23-2014
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	FAILURE TO INSTALL MAINTAIN OVERFILL AND OR OVERSPILL DEVICES
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-25-2013
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Chemical inventory is incomplete.
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	06-06-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	review & accept pending & current BA & Ow/Op forms - update EC data
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-21-2015
Violations Found:	Yes

H&S #26 (Continued) **S113468674**

Eval Type:	Routine done by local agency
Eval Notes:	Monitor certification performed this date.
Eval Division:	Fullerton City Fire Department
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	03-26-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	CERS review: BA/OW page
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-21-2016
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Fullerton City Fire Department
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	11-30-2015
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	On site for the triennial Hazardous Waste (HW) inspection. Permission to inspect granted by Hassan manager/Alexandria Rivera. There were (2) 55 gallon drums on site. Properly labeled. Stored closed/locked. Beginning accumulation date of 11-20-15. Manifests on site and available for review. HMBEP on site for FFD. EPA ID # correct. Review trash bin and run off. No HW.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS

Coordinates:

Site ID:	121812
Facility Name:	H&S #26
Env Int Type Code:	HWG
Program ID:	10412701
Coord Name:	Not reported
Ref Point Type Desc:	Center of a facility or station.
Latitude:	33.877510
Longitude:	-117.878450

Affiliation:

Affiliation Type Desc:	UST Tank Operator
Entity Name:	H & S Energy, LLC
Entity Title:	Not reported
Affiliation Address:	2860 N. Santiago Blvd
Affiliation City:	Orange
Affiliation State:	Ca
Affiliation Country:	United States

H&S #26 (Continued) **S113468674**

Affiliation Zip:	92867
Affiliation Phone:	(714) 448-5000
Affiliation Type Desc:	UST Tank Owner
Entity Name:	H & S Energy, LLC
Entity Title:	Not reported
Affiliation Address:	2860 N. Santiago Blvd
Affiliation City:	Orange
Affiliation State:	Ca
Affiliation Country:	United States
Affiliation Zip:	92867
Affiliation Phone:	(714) 448-5000
Affiliation Type Desc:	CUPA District
Entity Name:	Orange County Env Health
Entity Title:	Not reported
Affiliation Address:	1241 East Dyer RoadSuite 120
Affiliation City:	Santa Ana
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92705-5611
Affiliation Phone:	(714) 433-6000
Affiliation Type Desc:	Environmental Contact
Entity Name:	AlaEddin Hassan (Victor)
Entity Title:	Not reported
Affiliation Address:	2860 N. Santiago Blvd
Affiliation City:	Orange
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92867
Affiliation Phone:	Not reported
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	2860 N. Santiago Blvd
Affiliation City:	Orange
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92867
Affiliation Phone:	Not reported
Affiliation Type Desc:	Identification Signer
Entity Name:	AlaEddin Hassan
Entity Title:	Vice President
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Operator
Entity Name:	H & S Energy LLC dba H & S 26
Entity Title:	Not reported
Affiliation Address:	Not reported

H&S #26 (Continued) **S113468674**

Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(714) 448-5000

Affiliation Type Desc:	Parent Corporation
Entity Name:	H&S Energy, LLC
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Property Owner
Entity Name:	H & S Energy, LLC
Entity Title:	Not reported
Affiliation Address:	2860 Santiago Blvd
Affiliation City:	Orange
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92867
Affiliation Phone:	(714) 448-5000

Affiliation Type Desc:	UST Permit Applicant
Entity Name:	Alaeddin Hassan
Entity Title:	V.P
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(714) 761-5426

Affiliation Type Desc:	Document Preparer
Entity Name:	AlaEddin Hassan
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Legal Owner
Entity Name:	H & S Energy, LLC
Entity Title:	Not reported
Affiliation Address:	a.hassan@hasoil.com
Affiliation City:	Orange
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92867
Affiliation Phone:	(714) 448-5000

Affiliation Type Desc:	UST Property Owner Name

H&S #26 (Continued) **S113468674**

Entity Name: H & S Energy, LLC
Entity Title: Not reported
Affiliation Address: 2860 N. Santiago Blvd
Affiliation City: Orange
Affiliation State: Ca
Affiliation Country: United States
Affiliation Zip: 92867
Affiliation Phone: (714) 448-5000

CERS TANKS:
Facility Name: H&S #26
Site ID: 121812
CERS ID: 10412701
CERS Description: Underground Storage Tank

Violations:
Site ID: 121812
Site Name: H&S #26
Violation Date: 07-13-2017
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes: Returned to compliance on 07/18/2017. Quantity of Carbon Dioxide submitted on inventory was incorrect.
Violation Division: Fullerton City Fire Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 121812
Site Name: H&S #26
Violation Date: 07-21-2015
Citation: 23 CCR 16 2715(c)(2) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(c)(2)
Violation Description: Failure to comply with one or more of the following: maintain the spill bucket in good condition, containment free of debris/liquid, and/or to remove the contents of the spill bucket when a release/leak/spill was observed.
Violation Notes: Returned to compliance on 07/21/2015. 87 fill bucket failed testing. Replaced and retested at time of inspection.
Violation Division: Fullerton City Fire Department
Violation Program: UST
Violation Source: CERS

Site ID: 121812
Site Name: H&S #26
Violation Date: 07-30-2018
Citation: 23 CCR 16 2665 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2665
Violation Description: Failure of the overfill prevention system to meet one of the following requirements: Alert the transfer operator when the tank is 90 percent full by restricting the flow into the tank or triggering an audible and visual alarm; or Restrict delivery of flow to the tank at least 30 minutes before the tank overfills, provided the restriction occurs when the tank is filled to no more than 95 percent of capacity; and

H&S #26 (Continued) **S113468674**

activate an audible alarm at least five minutes before the tank overfills; or Provide positive shut-off of flow to the tank when the tank is filled to no more than 95 percent of capacity; or Provide positive shut-off of flow to the tank so that none of the fittings located on the top of the tank are exposed to product due to overfilling.

Violation Notes: Returned to compliance on 07/30/2018. The light on the overfill alarm failed to function. Replaced at time of inspection.
Violation Division: Fullerton City Fire Department
Violation Program: UST
Violation Source: CERS

Site ID: 121812
Site Name: H&S #26
Violation Date: 12-27-2018
Citation: 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description: Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes: Returned to compliance on 12/27/2018. Observed the following containers to be missing the accumulation start date, physical property and hazardous property: -one 55 gallon drum of gasoline contaminated debris -one 55 gallon drum of gasoline contaminated water Labels were completed during inspection. Violation corrected on site.
Violation Division: Orange County Environmental Health
Violation Program: HW
Violation Source: CERS

Site ID: 121812
Site Name: H&S #26
Violation Date: 07-21-2015
Citation: 23 CCR 16 2715 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715
Violation Description: Failure to comply with one or more of the designated operator monthly inspection requirements: failed to inspect the monthly alarm history report; attach a copy of the alarm history; failed to inspect for the presence of liquid or debris in the spill container/spill bucket and under dispenser containment; failed to inspect the under dispenser containment to ensure that monitoring equipment is placed in the proper position; failure to inspect for liquid or debris in the containment sump where an alarm occurred or for which there is no record of a service visit; or failure to check that all testing and maintenance has been completed and documented.
Violation Notes: Returned to compliance on 07/21/2015. D.O. inspection report failed to identify the cause of and response to 1/29/15 alarm of 87 fill sump sensor.
Violation Division: Fullerton City Fire Department
Violation Program: UST
Violation Source: CERS

Site ID: 121812
Site Name: H&S #26
Violation Date: 07-30-2018
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter

H&S #26 (Continued) **S113468674**

	6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit a site map with all required content.
Violation Notes:	Returned to compliance on 08/15/2018. Site map did not include sewer and storm drain locations.
Violation Division:	Fullerton City Fire Department
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	121812
Site Name:	H&S #26
Violation Date:	07-23-2014
Citation:	HSC 6.7 25291 - California Health and Safety Code, Chapter 6.7, Section(s) 25291
Violation Description:	Failure to install leak detection equipment correct for the type of system.
Violation Notes:	Not reported
Violation Division:	Orange County Environmental Health
Violation Program:	UST
Violation Source:	CERS
Site ID:	121812
Site Name:	H&S #26
Violation Date:	07-30-2018
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes:	Returned to compliance on 08/15/2018. Max and average daily amounts for Carbon Dioxide were incorrect.
Violation Division:	Fullerton City Fire Department
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	121812
Site Name:	H&S #26
Violation Date:	07-13-2017
Citation:	23 CCR 16 2641(j) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2641(j)
Violation Description:	Failure of the leak detection equipment to be installed, calibrated, operated, and/or maintained properly.
Violation Notes:	Returned to compliance on 07/13/2017. Sensor in diesel fill sump and 91 fill sump were not properly aligned. Corrected at time of inspection.
Violation Division:	Fullerton City Fire Department
Violation Program:	UST
Violation Source:	CERS

Evaluation:

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-13-2017
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Fullerton City Fire Department
Eval Program:	HMRRP

H&S #26 (Continued) **S113468674**

Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-21-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Fullerton City Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-25-2013
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: PLEASE SUBMIT CURRENT FINANCIAL RESPONSIBLITY DOCUMENTATION VIA CERS OR ESUBMIT. PLEASE ENTER UST A&B FORMS MONITORING PLAN AND RESPONSE PLAN VIA ESUBMIT OR CERS.
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-30-2018
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Fullerton City Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-30-2018
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Monitor certification performed this date
Eval Division: Fullerton City Fire Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 09-18-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-27-2018
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Facility generates the following hazardous waste: -gasoline contaminated debris (absorbent, hoses, rags) -water contaminated with gasoline Facility reported 30 employees.
Eval Division: Orange County Environmental Health

H&S #26 (Continued) **S113468674**

Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-13-2017
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Fullerton City Fire Department
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-21-2015
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	No violations observed
Eval Division:	Fullerton City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-23-2014
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	FAILURE TO INSTALL MAINTAIN OVERFILL AND OR OVERSPILL DEVICES
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-25-2013
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Chemical inventory is incomplete.
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	06-06-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	review & accept pending & current BA & Ow/Op forms - update EC data
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-21-2015
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Monitor certification performed this date.
Eval Division:	Fullerton City Fire Department
Eval Program:	UST
Eval Source:	CERS

H&S #26 (Continued) **S113468674**

Eval General Type:	Other/Unknown
Eval Date:	03-26-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	CERS review: BA/OW page
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-21-2016
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Fullerton City Fire Department
Eval Program:	UST
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	11-30-2015
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	On site for the triennial Hazardous Waste (HW) inspection. Permission to inspect granted by Hassan manager/Alexandria Rivera. There were (2) 55 gallon drums on site. Properly labeled. Stored closed/locked. Beginning accumulation date of 11-20-15. Manifests on site and available for review. HMBEP on site for FFD. EPA ID # correct. Review trash bin and run off. No HW.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS

Coordinates:

Site ID:	121812
Facility Name:	H&S #26
Env Int Type Code:	HWG
Program ID:	10412701
Coord Name:	Not reported
Ref Point Type Desc:	Center of a facility or station.
Latitude:	33.877510
Longitude:	-117.878450

Affiliation:

Affiliation Type Desc:	UST Tank Operator
Entity Name:	H & S Energy, LLC
Entity Title:	Not reported
Affiliation Address:	2860 N. Santiago Blvd
Affiliation City:	Orange
Affiliation State:	Ca
Affiliation Country:	United States
Affiliation Zip:	92867
Affiliation Phone:	(714) 448-5000

Affiliation Type Desc:	UST Tank Owner
Entity Name:	H & S Energy, LLC
Entity Title:	Not reported

H&S #26 (Continued) **S113468674**

Affiliation Address:	2860 N. Santiago Blvd
Affiliation City:	Orange
Affiliation State:	Ca
Affiliation Country:	United States
Affiliation Zip:	92867
Affiliation Phone:	(714) 448-5000

Affiliation Type Desc:	CUPA District
Entity Name:	Orange County Env Health
Entity Title:	Not reported
Affiliation Address:	1241 East Dyer RoadSuite 120
Affiliation City:	Santa Ana
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92705-5611
Affiliation Phone:	(714) 433-6000

Affiliation Type Desc:	Environmental Contact
Entity Name:	AlaEddin Hassan (Victor)
Entity Title:	Not reported
Affiliation Address:	2860 N. Santiago Blvd
Affiliation City:	Orange
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92867
Affiliation Phone:	Not reported

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	2860 N. Santiago Blvd
Affiliation City:	Orange
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92867
Affiliation Phone:	Not reported

Affiliation Type Desc:	Identification Signer
Entity Name:	AlaEddin Hassan
Entity Title:	Vice President
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Operator
Entity Name:	H & S Energy LLC dba H & S 26
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(714) 448-5000

H&S #26 (Continued) **S113468674**

Affiliation Type Desc:	Parent Corporation
Entity Name:	H&S Energy, LLC
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Property Owner
Entity Name:	H & S Energy, LLC
Entity Title:	Not reported
Affiliation Address:	2860 Santiago Blvd
Affiliation City:	Orange
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92867
Affiliation Phone:	(714) 448-5000

Affiliation Type Desc:	UST Permit Applicant
Entity Name:	Alaeddin Hassan
Entity Title:	V.P
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(714) 761-5426

Affiliation Type Desc:	Document Preparer
Entity Name:	AlaEddin Hassan
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Legal Owner
Entity Name:	H & S Energy, LLC
Entity Title:	Not reported
Affiliation Address:	a.hassan@hasoil.com
Affiliation City:	Orange
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92867
Affiliation Phone:	(714) 448-5000

Affiliation Type Desc:	UST Property Owner Name
Entity Name:	H & S Energy, LLC
Entity Title:	Not reported
Affiliation Address:	2860 N. Santiago Blvd
Affiliation City:	Orange
Affiliation State:	Ca
Affiliation Country:	United States

H&S #26 (Continued) **S113468674**

Affiliation Zip: 92867
Affiliation Phone: (714) 448-5000

HAZNET:
Site Name: CHEVRON STATION NO 96091
Year: 2010
GEPAID: CAR000121319
Contact: KATHY NORRIS-SLUSHER
Telephone: 8773866044
Mailing Name: Not reported
Mailing Address: PO BOX 6004
Mailing City,St,Zip: SAN RAMON, CA 945830000
Gen County: Orange
TSD EPA ID: CAD028409019
TSD County: Los Angeles
Tons: 1.251
CA Waste Code: 241-Tank bottom waste
Method: H135-Discharge To Sewer/Potw Or Npdes(With Prior Storage--With Or Without Treatment)
Facility County: Orange

CERS TANKS:
Site ID: 121812
CERS ID: 10412701
Site Name: H&S #26
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 121812
Site Name: H&S #26
Violation Date: 07-13-2017
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes: Returned to compliance on 07/18/2017. Quantity of Carbon Dioxide submitted on inventory was incorrect.
Violation Division: Fullerton City Fire Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 121812
Site Name: H&S #26
Violation Date: 07-21-2015
Citation: 23 CCR 16 2715(c)(2) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(c)(2)
Violation Description: Failure to comply with one or more of the following: maintain the spill bucket in good condition, containment free of debris/liquid, and/or to remove the contents of the spill bucket when a release/leak/spill was observed.
Violation Notes: Returned to compliance on 07/21/2015. 87 fill bucket failed testing. Replaced and retested at time of inspection.
Violation Division: Fullerton City Fire Department
Violation Program: UST
Violation Source: CERS

H&S #26 (Continued) **S113468674**

Site ID: 121812
Site Name: H&S #26
Violation Date: 07-30-2018
Citation: 23 CCR 16 2665 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2665
Violation Description: Failure of the overfill prevention system to meet one of the following requirements: Alert the transfer operator when the tank is 90 percent full by restricting the flow into the tank or triggering an audible and visual alarm; or Restrict delivery of flow to the tank at least 30 minutes before the tank overfills, provided the restriction occurs when the tank is filled to no more than 95 percent of capacity; and activate an audible alarm at least five minutes before the tank overfills; or Provide positive shut-off of flow to the tank when the tank is filled to no more than 95 percent of capacity; or Provide positive shut-off of flow to the tank so that none of the fittings located on the top of the tank are exposed to product due to overfilling.
Violation Notes: Returned to compliance on 07/30/2018. The light on the overfill alarm failed to function. Replaced at time of inspection.
Violation Division: Fullerton City Fire Department
Violation Program: UST
Violation Source: CERS

Site ID: 121812
Site Name: H&S #26
Violation Date: 12-27-2018
Citation: 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description: Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes: Returned to compliance on 12/27/2018. Observed the following containers to be missing the accumulation start date, physical property and hazardous property: -one 55 gallon drum of gasoline contaminated debris -one 55 gallon drum of gasoline contaminated water Labels were completed during inspection. Violation corrected on site.
Violation Division: Orange County Environmental Health
Violation Program: HW
Violation Source: CERS

Site ID: 121812
Site Name: H&S #26
Violation Date: 07-21-2015
Citation: 23 CCR 16 2715 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715
Violation Description: Failure to comply with one or more of the designated operator monthly inspection requirements: failed to inspect the monthly alarm history report; attach a copy of the alarm history; failed to inspect for the presence of liquid or debris in the spill container/spill bucket and under dispenser containment; failed to inspect the under dispenser containment to ensure that monitoring equipment is placed in the proper position; failure to inspect for liquid or debris in the containment sump where an alarm occurred or for which there is no record of a service visit; or failure to check that all testing and maintenance has been completed and documented.

H&S #26 (Continued) **S113468674**

Violation Notes:	Returned to compliance on 07/21/2015. D.O. inspection report failed to identify the cause of and response to 1/29/15 alarm of 87 fill sump sensor.
Violation Division:	Fullerton City Fire Department
Violation Program:	UST
Violation Source:	CERS
Site ID:	121812
Site Name:	H&S #26
Violation Date:	07-30-2018
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit a site map with all required content.
Violation Notes:	Returned to compliance on 08/15/2018. Site map did not include sewer and storm drain locations.
Violation Division:	Fullerton City Fire Department
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	121812
Site Name:	H&S #26
Violation Date:	07-23-2014
Citation:	HSC 6.7 25291 - California Health and Safety Code, Chapter 6.7, Section(s) 25291
Violation Description:	Failure to install leak detection equipment correct for the type of system.
Violation Notes:	Not reported
Violation Division:	Orange County Environmental Health
Violation Program:	UST
Violation Source:	CERS
Site ID:	121812
Site Name:	H&S #26
Violation Date:	07-30-2018
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes:	Returned to compliance on 08/15/2018. Max and average daily amounts for Carbon Dioxide were incorrect.
Violation Division:	Fullerton City Fire Department
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	121812
Site Name:	H&S #26
Violation Date:	07-13-2017
Citation:	23 CCR 16 2641(j) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2641(j)
Violation Description:	Failure of the leak detection equipment to be installed, calibrated, operated, and/or maintained properly.
Violation Notes:	Returned to compliance on 07/13/2017. Sensor in diesel fill sump and 91 fill sump were not properly aligned. Corrected at time of inspection.
Violation Division:	Fullerton City Fire Department

H&S #26 (Continued) **S113468674**

Violation Program: UST
Violation Source: CERS

Evaluation:

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-13-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Fullerton City Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-21-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Fullerton City Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-25-2013
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: PLEASE SUBMIT CURRENT FINANCIAL RESPONSIBLITY DOCUMENTATION VIA CERS OR ESUBMIT. PLEASE ENTER UST A&B FORMS MONITORING PLAN AND RESPONSE PLAN VIA ESUBMIT OR CERS.
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-30-2018
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Fullerton City Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-30-2018
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Monitor certification performed this date
Eval Division: Fullerton City Fire Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 09-18-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Orange County Environmental Health

H&S #26 (Continued) **S113468674**

Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	12-27-2018
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Facility generates the following hazardous waste: -gasoline contaminated debris (absorbent, hoses, rags) -water contaminated with gasoline Facility reported 30 employees.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-13-2017
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Fullerton City Fire Department
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-21-2015
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	No violations observed
Eval Division:	Fullerton City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-23-2014
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	FAILURE TO INSTALL MAINTAIN OVERFILL AND OR OVERSPILL DEVICES
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-25-2013
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Chemical inventory is incomplete.
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	06-06-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	review & accept pending & current BA & Ow/Op forms - update EC data
Eval Division:	Orange County Environmental Health
Eval Program:	HW

H&S #26 (Continued) **S113468674**

Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-21-2015
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Monitor certification performed this date.
Eval Division:	Fullerton City Fire Department
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	03-26-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	CERS review: BA/OW page
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-21-2016
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Fullerton City Fire Department
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	11-30-2015
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	On site for the triennial Hazardous Waste (HW) inspection. Permission to inspect granted by Hassan manager/Alexandria Rivera. There were (2) 55 gallon drums on site. Properly labeled. Stored closed/locked. Beginning accumulation date of 11-20-15. Manifests on site and available for review. HMBEP on site for FFD. EPA ID # correct. Review trash bin and run off. No HW.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS

Coordinates:

Site ID:	121812
Facility Name:	H&S #26
Env Int Type Code:	HWG
Program ID:	10412701
Coord Name:	Not reported
Ref Point Type Desc:	Center of a facility or station.
Latitude:	33.877510
Longitude:	-117.878450

Affiliation:

Affiliation Type Desc:	UST Tank Operator
Entity Name:	H & S Energy, LLC

H&S #26 (Continued) **S113468674**

Entity Title:	Not reported
Affiliation Address:	2860 N. Santiago Blvd
Affiliation City:	Orange
Affiliation State:	Ca
Affiliation Country:	United States
Affiliation Zip:	92867
Affiliation Phone:	(714) 448-5000

Affiliation Type Desc:	UST Tank Owner
Entity Name:	H & S Energy, LLC
Entity Title:	Not reported
Affiliation Address:	2860 N. Santiago Blvd
Affiliation City:	Orange
Affiliation State:	Ca
Affiliation Country:	United States
Affiliation Zip:	92867
Affiliation Phone:	(714) 448-5000

Affiliation Type Desc:	CUPA District
Entity Name:	Orange County Env Health
Entity Title:	Not reported
Affiliation Address:	1241 East Dyer RoadSuite 120
Affiliation City:	Santa Ana
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92705-5611
Affiliation Phone:	(714) 433-6000

Affiliation Type Desc:	Environmental Contact
Entity Name:	AlaEddin Hassan (Victor)
Entity Title:	Not reported
Affiliation Address:	2860 N. Santiago Blvd
Affiliation City:	Orange
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92867
Affiliation Phone:	Not reported

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	2860 N. Santiago Blvd
Affiliation City:	Orange
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92867
Affiliation Phone:	Not reported

Affiliation Type Desc:	Identification Signer
Entity Name:	AlaEddin Hassan
Entity Title:	Vice President
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

H&S #26 (Continued) **S113468674**

Affiliation Type Desc:	Operator
Entity Name:	H & S Energy LLC dba H & S 26
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(714) 448-5000

Affiliation Type Desc:	Parent Corporation
Entity Name:	H&S Energy, LLC
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Property Owner
Entity Name:	H & S Energy, LLC
Entity Title:	Not reported
Affiliation Address:	2860 Santiago Blvd
Affiliation City:	Orange
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92867
Affiliation Phone:	(714) 448-5000

Affiliation Type Desc:	UST Permit Applicant
Entity Name:	Alaeddin Hassan
Entity Title:	V.P
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(714) 761-5426

Affiliation Type Desc:	Document Preparer
Entity Name:	AlaEddin Hassan
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Legal Owner
Entity Name:	H & S Energy, LLC
Entity Title:	Not reported
Affiliation Address:	a.hassan@hasoil.com
Affiliation City:	Orange
Affiliation State:	CA
Affiliation Country:	United States

H&S #26 (Continued) **S113468674**

Affiliation Zip:	92867
Affiliation Phone:	(714) 448-5000
Affiliation Type Desc:	UST Property Owner Name
Entity Name:	H & S Energy, LLC
Entity Title:	Not reported
Affiliation Address:	2860 N. Santiago Blvd
Affiliation City:	Orange
Affiliation State:	Ca
Affiliation Country:	United States
Affiliation Zip:	92867
Affiliation Phone:	(714) 448-5000

M86 **CHEVRON STATION #6091** **CA HIST UST** **S113027379**
SE **2950 E NUTWOOD** **CA HAZNET** **N/A**
1/8-1/4 **FULLERTON, CA 92831**
0.158 mi.
832 ft. **Site 4 of 11 in cluster M**

Relative:
Lower
Actual:
240 ft.

HIST UST:

File Number:	0002E71E
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002E71E.pdf
Region:	Not reported
Facility ID:	Not reported
Facility Type:	Not reported
Other Type:	Not reported
Contact Name:	Not reported
Telephone:	Not reported
Owner Name:	Not reported
Owner Address:	Not reported
Owner City,St,Zip:	Not reported
Total Tanks:	Not reported
Tank Num:	Not reported
Container Num:	Not reported
Year Installed:	Not reported
Tank Capacity:	Not reported
Tank Used for:	Not reported
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	Not reported

Click here for Geo Tracker PDF:

HAZNET:

Site Name:	CHEVRON STATION #6091
Year:	1998
GEPAID:	CAL000016382
Contact:	INACTIVE PER PH CALL 8/30/93
Telephone:	--
Mailing Name:	Not reported
Mailing Address:	2950 NUTWOOD AVE # E
Mailing City,St,Zip:	FULLERTON, CA 928313204
Gen County:	Orange
TSD EPA ID:	CAT000613893
TSD County:	Los Angeles

CHEVRON STATION #6091 (Continued) **S113027379**

Tons: 0.0625
CA Waste Code: 342-Organic liquids with metals (Alkaline solution (pH >= 12.5) with metals)
Method: H01-Transfer Station
Facility County: Orange

M87 **CHEVRON STATION #9-6091** **CA SWEEPS UST** **S104583073**
SE **2950 E NUTWOOD AVE** **N/A**
1/8-1/4 **FULLERTON, CA 92631**
0.158 mi.
832 ft. **Site 5 of 11 in cluster M**

Relative:
Lower

Actual:
240 ft.

SWEEPS UST:

Status: Active
Comp Number: 2096
Number: 1
Board Of Equalization: 44-032934
Referral Date: 01-07-94
Action Date: 06-09-94
Created Date: 12-31-88
Owner Tank Id: 4
SWRCB Tank Id: 30-013-002096-000001
Tank Status: A
Capacity: 1000
Active Date: 03-31-93
Tank Use: OIL
STG: W
Content: OTHER
Number Of Tanks: 4

Status: Active
Comp Number: 2096
Number: 1
Board Of Equalization: 44-032934
Referral Date: 01-07-94
Action Date: 06-09-94
Created Date: 12-31-88
Owner Tank Id: 1
SWRCB Tank Id: 30-013-002096-000005
Tank Status: A
Capacity: 10000
Active Date: 03-31-93
Tank Use: M.V. FUEL
STG: P
Content: PRM UNLEADED
Number Of Tanks: Not reported

Status: Active
Comp Number: 2096
Number: 1
Board Of Equalization: 44-032934
Referral Date: 01-07-94
Action Date: 06-09-94
Created Date: 12-31-88
Owner Tank Id: 3
SWRCB Tank Id: 30-013-002096-000006
Tank Status: A
Capacity: 10000
Active Date: 03-31-93

CHEVRON STATION #9-6091 (Continued) **S104583073**

Tank Use:	M.V. FUEL
STG:	P
Content:	REG UNLEADED
Number Of Tanks:	Not reported
Status:	Active
Comp Number:	2096
Number:	1
Board Of Equalization:	44-032934
Referral Date:	01-07-94
Action Date:	06-09-94
Created Date:	12-31-88
Owner Tank Id:	2
SWRCB Tank Id:	30-013-002096-000007
Tank Status:	A
Capacity:	5000
Active Date:	03-31-93
Tank Use:	M.V. FUEL
STG:	P
Content:	GASOLINE
Number Of Tanks:	Not reported

M88 **CHEVRON STATION 96091** **RCRA-SQG** **1000886307**
SE **2950 E NUTWOOD** **CA0000137844**
1/8-1/4 **FULLERTON, CA 92831**
0.158 mi.
832 ft. **Site 6 of 11 in cluster M**

Relative:
Lower

Actual:
240 ft.

RCRA-SQG:

Date form received by agency:	02/17/1994
Facility name:	CHEVRON STATION 96091
Facility address:	2950 E NUTWOOD FULLERTON, CA 92831
EPA ID:	CA0000137844
Contact:	KOUROSH JAMAL
Contact address:	2950 E NUTWOOD FULLERTON, CA 92631
Contact country:	US
Contact telephone:	714-528-0302
Contact email:	Not reported
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	CHEVRON USA PRODUCTS CO
Owner/operator address:	PO BOX 2833 LA HABRA, CA 90632
Owner/operator country:	Not reported
Owner/operator telephone:	310-694-7452
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported

CHEVRON STATION 96091 (Continued) **1000886307**

Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

M89
SE
1/8-1/4
0.158 mi.
832 ft.

CHEVRON STATION NO 96091
2950 NUTWOOD AVENUE
FULLERTON, CA 92831

RCRA NonGen / NLR **1005904322**
FINDS **CAR000121319**
ECHO

Site 7 of 11 in cluster M

Relative:
Lower

Actual:
240 ft.

RCRA NonGen / NLR:
Date form received by agency: 03/13/2013
Facility name: CHEVRON STATION NO 96091
Facility address: 2950 NUTWOOD AVE
FULLERTON, CA 92831
EPA ID: CAR000121319
Mailing address: PO BOX 6004
SAN RAMON, CA 94583
Contact: KATHY NORRIS SLUSHER
Contact address: PO BOX 6004
SAN RAMON, CA 94583
Contact country: US
Contact telephone: 877-386-6044
Contact email: NAWTDESK@CHEVRON.COM
EPA Region: 09
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: CHEVRON USA
Owner/operator address: PO BOX 6004
SAN RAMON, CA 94583
Owner/operator country: US
Owner/operator telephone: 877-386-6044
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private

CHEVRON STATION NO 96091 (Continued) **1005904322**

Owner/Operator Type: Owner
Owner/Op start date: 07/01/1972
Owner/Op end date: Not reported

Owner/operator name: KATHY NORRIS SLUSHER
Owner/operator address: Not reported
Not reported
Owner/operator country: US
Owner/operator telephone: Not reported
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 07/01/1972
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 05/16/2002
Site name: CHEVRON STATION NO 96091
Classification: Small Quantity Generator

Hazardous Waste Summary:

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D018
. Waste name: BENZENE

Violation Status: No violations found

FINDS:

Registry ID: 110012544005

Environmental Interest/Information System
California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) provides California with information on hazardous waste shipments for

CHEVRON STATION NO 96091 (Continued) **1005904322**

generators, transporters, and treatment, storage, and disposal facilities.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1005904322
Registry ID:	110012544005
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110012544005

M90 **H&S #26** **CA UST** **U003938812**
SE **2950 NUTWOOD AVE** **N/A**
1/8-1/4 **FULLERTON, CA 92831**
0.158 mi.
832 ft. **Site 8 of 11 in cluster M**

Relative:
Lower

Actual:
240 ft.

UST:

Facility ID:	2096
Permitting Agency:	FULLERTON, CITY OF
Latitude:	33.878677
Longitude:	-117.8771278
Facility ID:	Not reported
Permitting Agency:	Orange County Environmental Health
Latitude:	33.87751
Longitude:	-117.87845

M91 **EXXON #7-3650** **CA UST** **U004021626**
SE **901 N PLACENTIA AVE** **N/A**
1/8-1/4 **FULLERTON, CA 92831**
0.167 mi.
882 ft. **Site 9 of 11 in cluster M**

Relative:
Lower

Actual:
241 ft.

UST:

Facility ID:	2100
Permitting Agency:	FULLERTON, CITY OF
Latitude:	33.8796423
Longitude:	-117.876867
Facility ID:	135056
Permitting Agency:	Orange County Environmental Health
Latitude:	33.87823
Longitude:	-117.87815

M92 SE 1/8-1/4 0.167 mi. 882 ft. | **EXXON SERVICE STATION #3650**
901 N PLACENTIA AVE
FULLERTON, CA 92631

CA LUST
CA HIST UST
CA CERS

U001576968
N/A

Site 10 of 11 in cluster M

Relative: Lower

Actual: 241 ft.

LUST:

Lead Agency:	SANTA ANA RWQCB (REGION 8)
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0605901521
Global Id:	T0605901521
Latitude:	33.878225866
Longitude:	-117.8780422
Status:	Open - Remediation
Status Date:	09/10/2015
Case Worker:	CAB
RB Case Number:	083002045T
Local Agency:	FULLERTON, CITY OF
File Location:	Not reported
Local Case Number:	Not reported
Potential Media Affect:	Aquifer used for drinking water supply
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

LUST:

Global Id:	T0605901521
Contact Type:	Regional Board Caseworker
Contact Name:	CARL BERNHARDT
Organization Name:	SANTA ANA RWQCB (REGION 8)
Address:	3737 MAIN STREET, SUITE 500
City:	RIVERSIDE
Email:	carl.bernhardt@waterboards.ca.gov
Phone Number:	9517824495

Global Id:	T0605901521
Contact Type:	Local Agency Caseworker
Contact Name:	STEPHEN LONG
Organization Name:	FULLERTON, CITY OF
Address:	312 E. COMMONWEALTH AVE.
City:	FULLERTON
Email:	stevel@fullertonfire.org
Phone Number:	7147383160

LUST:

Global Id:	T0605901521
Action Type:	RESPONSE
Date:	01/30/2006
Action:	Monitoring Report - Quarterly

Global Id:	T0605901521
Action Type:	RESPONSE
Date:	04/30/2006
Action:	Monitoring Report - Quarterly

Global Id:	T0605901521
Action Type:	RESPONSE
Date:	04/30/2005
Action:	Monitoring Report - Quarterly

EXXON SERVICE STATION #3650 (Continued) **U001576968**

Global Id: T0605901521
Action Type: RESPONSE
Date: 03/28/2012
Action: CAP/RAP - Other Report - Regulator Responded

Global Id: T0605901521
Action Type: Other
Date: 04/02/1992
Action: Leak Reported

Global Id: T0605901521
Action Type: RESPONSE
Date: 07/26/2006
Action: Soil and Water Investigation Workplan

Global Id: T0605901521
Action Type: RESPONSE
Date: 04/30/2012
Action: Monitoring Report - Semi-Annually

Global Id: T0605901521
Action Type: RESPONSE
Date: 10/30/2012
Action: Monitoring Report - Semi-Annually

Global Id: T0605901521
Action Type: RESPONSE
Date: 10/30/2006
Action: Monitoring Report - Quarterly

Global Id: T0605901521
Action Type: RESPONSE
Date: 01/30/2007
Action: Monitoring Report - Quarterly

Global Id: T0605901521
Action Type: RESPONSE
Date: 04/30/2007
Action: Monitoring Report - Quarterly

Global Id: T0605901521
Action Type: RESPONSE
Date: 07/30/2007
Action: Monitoring Report - Quarterly

Global Id: T0605901521
Action Type: RESPONSE
Date: 10/30/2007
Action: Monitoring Report - Quarterly

Global Id: T0605901521
Action Type: RESPONSE
Date: 01/30/2008
Action: Monitoring Report - Quarterly

Global Id: T0605901521
Action Type: RESPONSE

EXXON SERVICE STATION #3650 (Continued) **U001576968**

Date: 04/30/2008
Action: Monitoring Report - Quarterly

Global Id: T0605901521
Action Type: RESPONSE
Date: 07/30/2008
Action: Monitoring Report - Quarterly

Global Id: T0605901521
Action Type: RESPONSE
Date: 06/28/2016
Action: Request for Closure - Regulator Responded

Global Id: T0605901521
Action Type: RESPONSE
Date: 02/09/2015
Action: Other Report / Document - Regulator Responded

Global Id: T0605901521
Action Type: RESPONSE
Date: 08/25/2016
Action: Request for Closure - Regulator Responded

Global Id: T0605901521
Action Type: ENFORCEMENT
Date: 07/20/2009
Action: Staff Letter

Global Id: T0605901521
Action Type: ENFORCEMENT
Date: 08/24/2018
Action: Email Correspondence

Global Id: T0605901521
Action Type: RESPONSE
Date: 04/30/2009
Action: Corrective Action Plan / Remedial Action Plan

Global Id: T0605901521
Action Type: RESPONSE
Date: 06/21/2007
Action: CAP/RAP - Feasibility Study Report

Global Id: T0605901521
Action Type: ENFORCEMENT
Date: 03/06/2003
Action: * No Action

Global Id: T0605901521
Action Type: ENFORCEMENT
Date: 06/10/2011
Action: Staff Letter

Global Id: T0605901521
Action Type: ENFORCEMENT
Date: 08/18/2011
Action: Staff Letter

EXXON SERVICE STATION #3650 (Continued) **U001576968**

Global Id: T0605901521
Action Type: ENFORCEMENT
Date: 08/16/2017
Action: Staff Letter

Global Id: T0605901521
Action Type: RESPONSE
Date: 12/30/2008
Action: Soil and Water Investigation Report

Global Id: T0605901521
Action Type: RESPONSE
Date: 07/30/2006
Action: Monitoring Report - Quarterly

Global Id: T0605901521
Action Type: RESPONSE
Date: 02/26/2013
Action: Monitoring Report - Semi-Annually

Global Id: T0605901521
Action Type: REMEDIATION
Date: 01/14/1998
Action: Soil Vapor Extraction (SVE)

Global Id: T0605901521
Action Type: ENFORCEMENT
Date: 06/13/2017
Action: Notification - Public Notice of Case Closure

Global Id: T0605901521
Action Type: RESPONSE
Date: 10/30/2008
Action: Monitoring Report - Quarterly

Global Id: T0605901521
Action Type: RESPONSE
Date: 01/30/2009
Action: Monitoring Report - Quarterly

Global Id: T0605901521
Action Type: RESPONSE
Date: 04/30/2009
Action: Monitoring Report - Quarterly

Global Id: T0605901521
Action Type: RESPONSE
Date: 07/30/2009
Action: Monitoring Report - Quarterly

Global Id: T0605901521
Action Type: RESPONSE
Date: 09/30/2009
Action: Interim Remedial Action Plan

Global Id: T0605901521
Action Type: RESPONSE

EXXON SERVICE STATION #3650 (Continued) **U001576968**

Date: 04/30/2010
Action: Monitoring Report - Semi-Annually

Global Id: T0605901521
Action Type: RESPONSE
Date: 09/13/2013
Action: Monitoring Report - Semi-Annually

Global Id: T0605901521
Action Type: RESPONSE
Date: 04/30/2014
Action: Monitoring Report - Semi-Annually

Global Id: T0605901521
Action Type: REMEDIATION
Date: 06/01/2004
Action: Free Product Removal

Global Id: T0605901521
Action Type: REMEDIATION
Date: 04/04/2007
Action: In Situ Physical/Chemical Treatment (other than SVE)

Global Id: T0605901521
Action Type: REMEDIATION
Date: 06/01/2005
Action: In Situ Physical/Chemical Treatment (other than SVE)

Global Id: T0605901521
Action Type: RESPONSE
Date: 02/03/2003
Action: Monitoring Report - Quarterly

Global Id: T0605901521
Action Type: RESPONSE
Date: 09/25/2014
Action: Monitoring Report - Semi-Annually

Global Id: T0605901521
Action Type: RESPONSE
Date: 08/24/2015
Action: Other Report / Document

Global Id: T0605901521
Action Type: RESPONSE
Date: 09/25/2015
Action: Monitoring Report - Semi-Annually

Global Id: T0605901521
Action Type: REMEDIATION
Date: 09/10/2015
Action: In Situ Physical/Chemical Treatment (other than SVE)

Global Id: T0605901521
Action Type: Other
Date: 04/02/1992
Action: Leak Discovery

EXXON SERVICE STATION #3650 (Continued) **U001576968**

Global Id: T0605901521
Action Type: RESPONSE
Date: 05/15/2003
Action: Monitoring Report - Quarterly

Global Id: T0605901521
Action Type: RESPONSE
Date: 07/30/2003
Action: Monitoring Report - Quarterly

Global Id: T0605901521
Action Type: RESPONSE
Date: 10/30/2003
Action: Monitoring Report - Quarterly

Global Id: T0605901521
Action Type: RESPONSE
Date: 01/30/2004
Action: Monitoring Report - Quarterly

Global Id: T0605901521
Action Type: RESPONSE
Date: 03/25/2016
Action: Monitoring Report - Semi-Annually

Global Id: T0605901521
Action Type: RESPONSE
Date: 05/18/2017
Action: Clean Up Fund - 5-Year Review Summary

Global Id: T0605901521
Action Type: ENFORCEMENT
Date: 02/23/2007
Action: Verbal Enforcement

Global Id: T0605901521
Action Type: RESPONSE
Date: 02/02/2005
Action: Monitoring Report - Quarterly

Global Id: T0605901521
Action Type: RESPONSE
Date: 07/30/2004
Action: Monitoring Report - Quarterly

Global Id: T0605901521
Action Type: RESPONSE
Date: 10/30/2004
Action: Monitoring Report - Quarterly

Global Id: T0605901521
Action Type: RESPONSE
Date: 05/04/2011
Action: Well Installation Workplan

Global Id: T0605901521
Action Type: RESPONSE

EXXON SERVICE STATION #3650 (Continued) **U001576968**

Date: 05/26/2011
Action: Corrective Action Plan / Remedial Action Plan

Global Id: T0605901521
Action Type: RESPONSE
Date: 04/30/2011
Action: Monitoring Report - Semi-Annually

Global Id: T0605901521
Action Type: RESPONSE
Date: 10/26/2015
Action: Remedial Progress Report

Global Id: T0605901521
Action Type: RESPONSE
Date: 02/02/2016
Action: Other Report / Document

Global Id: T0605901521
Action Type: ENFORCEMENT
Date: 06/22/2004
Action: Staff Letter

Global Id: T0605901521
Action Type: RESPONSE
Date: 07/30/2005
Action: Monitoring Report - Quarterly

Global Id: T0605901521
Action Type: RESPONSE
Date: 10/30/2005
Action: Monitoring Report - Quarterly

Global Id: T0605901521
Action Type: RESPONSE
Date: 01/21/2005
Action: Soil and Water Investigation Report

Global Id: T0605901521
Action Type: RESPONSE
Date: 12/16/2015
Action: Remedial Progress Report

Global Id: T0605901521
Action Type: RESPONSE
Date: 04/28/2015
Action: Monitoring Report - Semi-Annually

Global Id: T0605901521
Action Type: ENFORCEMENT
Date: 08/07/2008
Action: Staff Letter

LUST:
Global Id: T0605901521
Status: Open - Assessment & Interim Remedial Action
Status Date: 07/20/2006

EXXON SERVICE STATION #3650 (Continued) **U001576968**

Global Id: T0605901521
Status: Open - Assessment & Interim Remedial Action
Status Date: 07/20/2006

Global Id: T0605901521
Status: Open - Case Begin Date
Status Date: 04/02/1992

Global Id: T0605901521
Status: Open - Remediation
Status Date: 01/14/1998

Global Id: T0605901521
Status: Open - Remediation
Status Date: 09/10/2015

Global Id: T0605901521
Status: Open - Site Assessment
Status Date: 04/02/1992

Global Id: T0605901521
Status: Open - Site Assessment
Status Date: 04/14/1992

HIST UST:
File Number: 0002E8B6
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002E8B6.pdf
Region: STATE
Facility ID: 00000023940
Facility Type: Gas Station
Other Type: Not reported
Contact Name: FOSTER RATZLAFF
Telephone: 7145242590
Owner Name: EXXON COMPANY U.S.A.
Owner Address: 16945 NORTHCHASE BLVD
Owner City,St,Zip: HOUSTON, TX 77210
Total Tanks: 0004

Tank Num: 001
Container Num: 1
Year Installed: 1969
Tank Capacity: 00006000
Tank Used for: PRODUCT
Type of Fuel: PREMIUM
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor

Tank Num: 002
Container Num: 2
Year Installed: 1969
Tank Capacity: 00008000
Tank Used for: PRODUCT
Type of Fuel: REGULAR
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor

EXXON SERVICE STATION #3650 (Continued) **U001576968**

Tank Num:	003
Container Num:	3
Year Installed:	1969
Tank Capacity:	00010000
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor

Tank Num:	004
Container Num:	4
Year Installed:	1983
Tank Capacity:	00001000
Tank Used for:	WASTE
Type of Fuel:	WASTE OIL
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor

Click here for Geo Tracker PDF:

CERS TANKS:

Site ID:	229538
CERS ID:	T0605901521
Site Name:	EXXON SERVICE STATION #3650
CERS Description:	Leaking Underground Storage Tank Cleanup Site

Affiliation:

Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	CARL BERNHARDT - SANTA ANA RWQCB (REGION 8)
Entity Title:	Not reported
Affiliation Address:	3737 MAIN STREET, SUITE 500
Affiliation City:	RIVERSIDE
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	9517824495

Affiliation Type Desc:	Local Agency Caseworker
Entity Name:	STEPHEN LONG - FULLERTON, CITY OF
Entity Title:	Not reported
Affiliation Address:	312 E. COMMONWEALTH AVE.
Affiliation City:	FULLERTON
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	7147383160

M93
SE
1/8-1/4
0.167 mi.
882 ft.

Relative:
Lower

Actual:
241 ft.

EXXON #7-3650
901 N PLACENTIA AVE
FULLERTON, CA 92631

Site 11 of 11 in cluster M

CA LUST
CA CERS HAZ WASTE
CA SWEEPS UST
CA CERS TANKS
CA FID UST
CA CERS

S101589087
N/A

LUST REG 8:

Region:	8
County:	Orange
Regional Board:	Santa Ana Region
Facility Status:	Remedial action (cleanup) Underway
Case Number:	083002045T
Local Case Num:	Not reported
Case Type:	Aquifer affected
Substance:	Gasoline
Qty Leaked:	Not reported
Abate Method:	Vapor Extraction
Cross Street:	NUTWOOD
Enf Type:	SEL
Funding:	Not reported
How Discovered:	OM
How Stopped:	Not reported
Leak Cause:	UNK
Leak Source:	UNK
Global ID:	T0605901521
How Stopped Date:	Not reported
Enter Date:	6/23/1992
Date Confirmation of Leak Began:	4/2/1992
Date Preliminary Assessment Began:	Not reported
Discover Date:	4/2/1992
Enforcement Date:	Not reported
Close Date:	Not reported
Date Prelim Assessment Workplan Submitted:	Not reported
Date Pollution Characterization Began:	4/14/1992
Date Remediation Plan Submitted:	Not reported
Date Remedial Action Underway:	1/14/1998
Date Post Remedial Action Monitoring:	Not reported
Enter Date:	6/23/1992
GW Qualifies:	=
Soil Qualifies:	Not reported
Operator:	Not reported
Facility Contact:	Not reported
Interim:	Not reported
Oversite Program:	LUST
Latitude:	33.87822587
Longitude:	-117.8780422
MTBE Date:	2/13/1997
Max MTBE GW:	8400
MTBE Concentration:	3
Max MTBE Soil:	Not reported
MTBE Fuel:	1
MTBE Tested:	MTBE Detected. Site tested for MTBE & MTBE detected
MTBE Class:	C
Staff:	CAB
Staff Initials:	SRL
Lead Agency:	Regional Board
Local Agency:	30013
Hydr Basin #:	COASTAL PLAIN OF ORA

EXXON #7-3650 (Continued) **S101589087**

Beneficial: Not reported
Priority: Not reported
Cleanup Fund Id: Not reported
Work Suspended: Not reported
Summary: 3/19/96 - APPROVED WP FOR ADD'L MONITORING WELLS

CERS HAZ WASTE:
Site ID: 86628
CERS ID: 10449958
CERS Description: Hazardous Waste Generator

Violations:
Site ID: 86628
Site Name: World Oil Marketing Company #107
Violation Date: 06-08-2017
Citation: 23 CCR 16 2636(f)(2) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2636(f)(2)
Violation Description: Failure of the line leak detector (LLD) monitoring pressurized piping to meet one or more of the following requirements:Monitor at least hourly.Be capable of detecting a release of 3.0 gallons per hour at 10 p.s.i.g. Restrict or shut off the flow of product through the piping when a leak is detected.
Violation Notes: Returned to compliance on 06/08/2017. 87 main MLLD failed testing. Replaced and retested at time of inspection.
Violation Division: Fullerton City Fire Department
Violation Program: UST
Violation Source: CERS

Site ID: 86628
Site Name: World Oil Marketing Company #107
Violation Date: 06-09-2016
Citation: 23 CCR 16 2712(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(i)
Violation Description: Failure to submit, obtain approval, or maintain a complete/accurate response plan.
Violation Notes: Returned to compliance on 06/09/2016. No copy of current response plan onsite.
Violation Division: Fullerton City Fire Department
Violation Program: UST
Violation Source: CERS

Site ID: 86628
Site Name: World Oil Marketing Company #107
Violation Date: 06-08-2018
Citation: 23 CCR 16 2641(h) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2641(h)
Violation Description: Failure to have an approved UST Monitoring Plan.
Violation Notes: Returned to compliance on 06/29/2018. MONITORING SITE MAP SHALL INCLUDE MLLD & MONITORING PANEL LOCATION.
Violation Division: Fullerton City Fire Department
Violation Program: UST
Violation Source: CERS

Site ID: 86628
Site Name: World Oil Marketing Company #107
Violation Date: 06-08-2018
Citation: 23 CCR 16 2641(j) - California Code of Regulations, Title 23, Chapter

EXXON #7-3650 (Continued) **S101589087**

	16, Section(s) 2641(j)
Violation Description:	Failure of the leak detection equipment to be installed, calibrated, operated, and/or maintained properly.
Violation Notes:	Returned to compliance on 06/26/2018. 87 MAIN FILL SUMP 208 SENSOR FAILED - REPLACED AND RETESTED SAME DAY. 87 MAIN PLLD FAILED - REPLACED AND RETESTED 6/26.
Violation Division:	Fullerton City Fire Department
Violation Program:	UST
Violation Source:	CERS
Site ID:	86628
Site Name:	World Oil Marketing Company #107
Violation Date:	06-09-2016
Citation:	23 CCR 16 2712(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(i)
Violation Description:	Failure to maintain on site an approved monitoring plan.
Violation Notes:	Returned to compliance on 06/09/2016. No copy of current monitoring plan available onsite.
Violation Division:	Fullerton City Fire Department
Violation Program:	UST
Violation Source:	CERS
Site ID:	86628
Site Name:	World Oil Marketing Company #107
Violation Date:	06-09-2016
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes:	Returned to compliance on 06/14/2016. Facility had carbon dioxide cylinders in excess of disclosable quantity (~1200 cubic feet). Facility reduced quantity on hand to below disclosure threshold.
Violation Division:	Fullerton City Fire Department
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	86628
Site Name:	World Oil Marketing Company #107
Violation Date:	06-09-2016
Citation:	23 CCR 16 2636(f)(2) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2636(f)(2)
Violation Description:	Failure of the pressurized piping to meet one or more of the following requirements: monitored at least hourly with the capability of detecting a release of 3.0 gallons per hour, and will restrict the flow of product through the piping or trigger an alarm when a release occurs.
Violation Notes:	Returned to compliance on 06/14/2016. 91 product MLLD failed testing. Replaced and retest witnessed.
Violation Division:	Fullerton City Fire Department
Violation Program:	UST
Violation Source:	CERS
Site ID:	86628
Site Name:	World Oil Marketing Company #107
Violation Date:	06-08-2017
Citation:	23 CCR 16 2641(j) - California Code of Regulations, Title 23, Chapter

EXXON #7-3650 (Continued) **S101589087**

	16, Section(s) 2641(j)
Violation Description:	Failure of the leak detection equipment to be installed, calibrated, operated, and/or maintained properly.
Violation Notes:	Returned to compliance on 06/08/2017. 87 main UST fill sump sensor failed initial testing. Sensor was cleaned and passed retesting at time of inspection.
Violation Division:	Fullerton City Fire Department
Violation Program:	UST
Violation Source:	CERS

Evaluation:

Eval General Type:	Other/Unknown
Eval Date:	05-13-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	CERS review: BA/OW pg
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	06-09-2016
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Monitor certification performed at time of inspection.
Eval Division:	Fullerton City Fire Department
Eval Program:	UST
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	06-11-2015
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Monitor certification performed this date. No violations observed.
Eval Division:	Fullerton City Fire Department
Eval Program:	UST
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	11-30-2015
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	On site for the triennial Hazardous Waste (HW) inspection. Permission to inspect granted by World Oil/on site manager. There were (2) 55 gallon drums on site. They were empty and had HW labels completed except for the beginning accumulation date. Stored closed. Manifests were on site and available for review. Manifests for UST testing and maintenance only. No other HW. USTs regulated by FFD. EPA ID # OK. HMBEP is on site for FFD. Emergency response plan posted on site. Review trash and run off. No HW.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	04-29-2016
Violations Found:	No

EXXON #7-3650 (Continued) **S101589087**

Eval Type:	Other, not routine, done by local agency
Eval Notes:	CERS review: BA/OW pg
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	06-08-2017
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Fullerton City Fire Department
Eval Program:	UST
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	06-09-2016
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Fullerton City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	06-11-2015
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	No violations observed.
Eval Division:	Fullerton City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	06-08-2018
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	ANNUAL MONITOR CERTIFICATION OBSERVED THIS DAY.
Eval Division:	Fullerton City Fire Department
Eval Program:	UST
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	12-27-2018
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	On site for a routine hazardous waste inspection. Business ownership information was verified. Walked throughout the facility. Observed hazardous waste storage areas. Facility generates gasoline contaminated debris and water contaminated with gasoline Containers were closed and properly labeled. Manifests were available and reviewed. Employees are reported to be trained. Emergency plan is available in binder at front counter. A perimeter walk was conducted and the dumpster enclosure was observed. No evidence of illegal dumping was noted. No hazardous waste violations were observed on this date.
Eval Division:	Orange County Environmental Health

EXXON #7-3650 (Continued) **S101589087**

Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	06-08-2017
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	No violations observed.
Eval Division:	Fullerton City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	06-08-2018
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	NO VIOLATIONS OBSERVED.
Eval Division:	Fullerton City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS

Coordinates:

Site ID:	86628
Facility Name:	World Oil Marketing Company #107
Env Int Type Code:	HWG
Program ID:	10449958
Coord Name:	Not reported
Ref Point Type Desc:	Center of a facility or station.
Latitude:	33.878230
Longitude:	-117.878150

Affiliation:

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	9302 Garfield Ave.
Affiliation City:	South Gate
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	90280
Affiliation Phone:	Not reported
Affiliation Type Desc:	Identification Signer
Entity Name:	Jim Tostado
Entity Title:	Director
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Legal Owner
Entity Name:	World Oil Marketing Company
Entity Title:	Not reported
Affiliation Address:	9302 Garfield Ave.

EXXON #7-3650 (Continued) **S101589087**

Affiliation City:	South Gate
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	90280
Affiliation Phone:	(562) 928-0100

Affiliation Type Desc:	Property Owner
Entity Name:	World Oil Marketing Company
Entity Title:	Not reported
Affiliation Address:	9302 Garfield Ave.
Affiliation City:	South Gate
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	90280
Affiliation Phone:	(562) 928-0100

Affiliation Type Desc:	UST Permit Applicant
Entity Name:	Jim Tostado
Entity Title:	Director
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(562) 928-0100

Affiliation Type Desc:	UST Tank Owner
Entity Name:	World Oil Marketing Company
Entity Title:	Not reported
Affiliation Address:	9302 Garfield Ave.
Affiliation City:	South Gate
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	90280
Affiliation Phone:	(562) 928-0100

Affiliation Type Desc:	Document Preparer
Entity Name:	Evelyn Kywe
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Environmental Contact
Entity Name:	John Hundley
Entity Title:	Not reported
Affiliation Address:	9302 Garfield Ave.
Affiliation City:	South Gate
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	90280
Affiliation Phone:	Not reported

Affiliation Type Desc:	Parent Corporation

EXXON #7-3650 (Continued) **S101589087**

Entity Name:	World Oil Marketing Company
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	UST Tank Operator
Entity Name:	World Oil Marketing Company
Entity Title:	Not reported
Affiliation Address:	9302 Garfield Ave.
Affiliation City:	South Gate
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	90280
Affiliation Phone:	(562) 928-0100

Affiliation Type Desc:	CUPA District
Entity Name:	Orange County Env Health
Entity Title:	Not reported
Affiliation Address:	1241 East Dyer RoadSuite 120
Affiliation City:	Santa Ana
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92705-5611
Affiliation Phone:	(714) 433-6000

Affiliation Type Desc:	Operator
Entity Name:	World Oil Marketing Company
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(562) 928-0100

Affiliation Type Desc:	UST Property Owner Name
Entity Name:	World Oil Marketing Company
Entity Title:	Not reported
Affiliation Address:	9302 Garfield Ave.
Affiliation City:	South Gate
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	90280
Affiliation Phone:	(562) 928-0100

SWEEPS UST:

Status:	Not reported
Comp Number:	2100
Number:	Not reported
Board Of Equalization:	Not reported
Referral Date:	Not reported
Action Date:	Not reported

EXXON #7-3650 (Continued) **S101589087**

Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	30-013-002100-000001
Tank Status:	Not reported
Capacity:	1000
Active Date:	Not reported
Tank Use:	PETROLEUM
STG:	WASTE
Content:	WASTE OIL
Number Of Tanks:	4

Status:	Not reported
Comp Number:	2100
Number:	Not reported
Board Of Equalization:	Not reported
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	30-013-002100-000004
Tank Status:	Not reported
Capacity:	10000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	REG UNLEADED
Number Of Tanks:	Not reported

Status:	Not reported
Comp Number:	2100
Number:	Not reported
Board Of Equalization:	Not reported
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	30-013-002100-000005
Tank Status:	Not reported
Capacity:	8000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	REG UNLEADED
Number Of Tanks:	Not reported

Status:	Not reported
Comp Number:	2100
Number:	Not reported
Board Of Equalization:	Not reported
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	30-013-002100-000006
Tank Status:	Not reported
Capacity:	6000
Active Date:	Not reported

EXXON #7-3650 (Continued) **S101589087**

Tank Use: M.V. FUEL
STG: PRODUCT
Content: PRM UNLEADED
Number Of Tanks: Not reported

CERS TANKS:
Facility Name: WORLD OIL MARKETING COMPANY #107
Site ID: 86628
CERS ID: 10449958
CERS Description: Underground Storage Tank

Violations:
Site ID: 86628
Site Name: World Oil Marketing Company #107
Violation Date: 06-08-2017
Citation: 23 CCR 16 2636(f)(2) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2636(f)(2)
Violation Description: Failure of the line leak detector (LLD) monitoring pressurized piping to meet one or more of the following requirements:Monitor at least hourly.Be capable of detecting a release of 3.0 gallons per hour at 10 p.s.i.g. Restrict or shut off the flow of product through the piping when a leak is detected.
Violation Notes: Returned to compliance on 06/08/2017. 87 main MLLD failed testing. Replaced and retested at time of inspection.
Violation Division: Fullerton City Fire Department
Violation Program: UST
Violation Source: CERS

Site ID: 86628
Site Name: World Oil Marketing Company #107
Violation Date: 06-09-2016
Citation: 23 CCR 16 2712(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(i)
Violation Description: Failure to submit, obtain approval, or maintain a complete/accurate response plan.
Violation Notes: Returned to compliance on 06/09/2016. No copy of current response plan onsite.
Violation Division: Fullerton City Fire Department
Violation Program: UST
Violation Source: CERS

Site ID: 86628
Site Name: World Oil Marketing Company #107
Violation Date: 06-08-2018
Citation: 23 CCR 16 2641(h) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2641(h)
Violation Description: Failure to have an approved UST Monitoring Plan.
Violation Notes: Returned to compliance on 06/29/2018. MONITORING SITE MAP SHALL INCLUDE MLLD & MONITORING PANEL LOCATION.
Violation Division: Fullerton City Fire Department
Violation Program: UST
Violation Source: CERS

Site ID: 86628
Site Name: World Oil Marketing Company #107
Violation Date: 06-08-2018
Citation: 23 CCR 16 2641(j) - California Code of Regulations, Title 23, Chapter

EXXON #7-3650 (Continued) **S101589087**

	16, Section(s) 2641(j)
Violation Description:	Failure of the leak detection equipment to be installed, calibrated, operated, and/or maintained properly.
Violation Notes:	Returned to compliance on 06/26/2018. 87 MAIN FILL SUMP 208 SENSOR FAILED - REPLACED AND RETESTED SAME DAY. 87 MAIN PLLD FAILED - REPLACED AND RETESTED 6/26.
Violation Division:	Fullerton City Fire Department
Violation Program:	UST
Violation Source:	CERS
Site ID:	86628
Site Name:	World Oil Marketing Company #107
Violation Date:	06-09-2016
Citation:	23 CCR 16 2712(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(i)
Violation Description:	Failure to maintain on site an approved monitoring plan.
Violation Notes:	Returned to compliance on 06/09/2016. No copy of current monitoring plan available onsite.
Violation Division:	Fullerton City Fire Department
Violation Program:	UST
Violation Source:	CERS
Site ID:	86628
Site Name:	World Oil Marketing Company #107
Violation Date:	06-09-2016
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes:	Returned to compliance on 06/14/2016. Facility had carbon dioxide cylinders in excess of disclosable quantity (~1200 cubic feet). Facility reduced quantity on hand to below disclosure threshold.
Violation Division:	Fullerton City Fire Department
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	86628
Site Name:	World Oil Marketing Company #107
Violation Date:	06-09-2016
Citation:	23 CCR 16 2636(f)(2) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2636(f)(2)
Violation Description:	Failure of the pressurized piping to meet one or more of the following requirements: monitored at least hourly with the capability of detecting a release of 3.0 gallons per hour, and will restrict the flow of product through the piping or trigger an alarm when a release occurs.
Violation Notes:	Returned to compliance on 06/14/2016. 91 product MLLD failed testing. Replaced and retest witnessed.
Violation Division:	Fullerton City Fire Department
Violation Program:	UST
Violation Source:	CERS
Site ID:	86628
Site Name:	World Oil Marketing Company #107
Violation Date:	06-08-2017
Citation:	23 CCR 16 2641(j) - California Code of Regulations, Title 23, Chapter

EXXON #7-3650 (Continued) **S101589087**

	16, Section(s) 2641(j)
Violation Description:	Failure of the leak detection equipment to be installed, calibrated, operated, and/or maintained properly.
Violation Notes:	Returned to compliance on 06/08/2017. 87 main UST fill sump sensor failed initial testing. Sensor was cleaned and passed retesting at time of inspection.
Violation Division:	Fullerton City Fire Department
Violation Program:	UST
Violation Source:	CERS

Evaluation:

Eval General Type:	Other/Unknown
Eval Date:	05-13-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	CERS review: BA/OW pg
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	06-09-2016
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Monitor certification performed at time of inspection.
Eval Division:	Fullerton City Fire Department
Eval Program:	UST
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	06-11-2015
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Monitor certification performed this date. No violations observed.
Eval Division:	Fullerton City Fire Department
Eval Program:	UST
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	11-30-2015
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	On site for the triennial Hazardous Waste (HW) inspection. Permission to inspect granted by World Oil/on site manager. There were (2) 55 gallon drums on site. They were empty and had HW labels completed except for the beginning accumulation date. Stored closed. Manifests were on site and available for review. Manifests for UST testing and maintenance only. No other HW. USTs regulated by FFD. EPA ID # OK. HMBEP is on site for FFD. Emergency response plan posted on site. Review trash and run off. No HW.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	04-29-2016
Violations Found:	No

EXXON #7-3650 (Continued) **S101589087**

Eval Type:	Other, not routine, done by local agency
Eval Notes:	CERS review: BA/OW pg
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	06-08-2017
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Fullerton City Fire Department
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	06-09-2016
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Fullerton City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	06-11-2015
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	No violations observed.
Eval Division:	Fullerton City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	06-08-2018
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	ANNUAL MONITOR CERTIFICATION OBSERVED THIS DAY.
Eval Division:	Fullerton City Fire Department
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	12-27-2018
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	On site for a routine hazardous waste inspection. Business ownership information was verified. Walked throughout the facility. Observed hazardous waste storage areas. Facility generates gasoline contaminated debris and water contaminated with gasoline Containers were closed and properly labeled. Manifests were available and reviewed. Employees are reported to be trained. Emergency plan is available in binder at front counter. A perimeter walk was conducted and the dumpster enclosure was observed. No evidence of illegal dumping was noted. No hazardous waste violations were observed on this date.
Eval Division:	Orange County Environmental Health

EXXON #7-3650 (Continued) **S101589087**

Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	06-08-2017
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	No violations observed.
Eval Division:	Fullerton City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	06-08-2018
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	NO VIOLATIONS OBSERVED.
Eval Division:	Fullerton City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS

Coordinates:

Site ID:	86628
Facility Name:	World Oil Marketing Company #107
Env Int Type Code:	HWG
Program ID:	10449958
Coord Name:	Not reported
Ref Point Type Desc:	Center of a facility or station.
Latitude:	33.878230
Longitude:	-117.878150

Affiliation:

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	9302 Garfield Ave.
Affiliation City:	South Gate
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	90280
Affiliation Phone:	Not reported
Affiliation Type Desc:	Identification Signer
Entity Name:	Jim Tostado
Entity Title:	Director
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Legal Owner
Entity Name:	World Oil Marketing Company
Entity Title:	Not reported
Affiliation Address:	9302 Garfield Ave.

EXXON #7-3650 (Continued) **S101589087**

Affiliation City:	South Gate
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	90280
Affiliation Phone:	(562) 928-0100

Affiliation Type Desc:	Property Owner
Entity Name:	World Oil Marketing Company
Entity Title:	Not reported
Affiliation Address:	9302 Garfield Ave.
Affiliation City:	South Gate
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	90280
Affiliation Phone:	(562) 928-0100

Affiliation Type Desc:	UST Permit Applicant
Entity Name:	Jim Tostado
Entity Title:	Director
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(562) 928-0100

Affiliation Type Desc:	UST Tank Owner
Entity Name:	World Oil Marketing Company
Entity Title:	Not reported
Affiliation Address:	9302 Garfield Ave.
Affiliation City:	South Gate
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	90280
Affiliation Phone:	(562) 928-0100

Affiliation Type Desc:	Document Preparer
Entity Name:	Evelyn Kywe
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Environmental Contact
Entity Name:	John Hundley
Entity Title:	Not reported
Affiliation Address:	9302 Garfield Ave.
Affiliation City:	South Gate
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	90280
Affiliation Phone:	Not reported

Affiliation Type Desc:	Parent Corporation

EXXON #7-3650 (Continued) **S101589087**

Entity Name:	World Oil Marketing Company
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	UST Tank Operator
Entity Name:	World Oil Marketing Company
Entity Title:	Not reported
Affiliation Address:	9302 Garfield Ave.
Affiliation City:	South Gate
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	90280
Affiliation Phone:	(562) 928-0100

Affiliation Type Desc:	CUPA District
Entity Name:	Orange County Env Health
Entity Title:	Not reported
Affiliation Address:	1241 East Dyer RoadSuite 120
Affiliation City:	Santa Ana
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92705-5611
Affiliation Phone:	(714) 433-6000

Affiliation Type Desc:	Operator
Entity Name:	World Oil Marketing Company
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(562) 928-0100

Affiliation Type Desc:	UST Property Owner Name
Entity Name:	World Oil Marketing Company
Entity Title:	Not reported
Affiliation Address:	9302 Garfield Ave.
Affiliation City:	South Gate
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	90280
Affiliation Phone:	(562) 928-0100

CA FID UST:

Facility ID:	30001277
Regulated By:	UTNKA
Regulated ID:	Not reported
Cortese Code:	Not reported
SIC Code:	Not reported
Facility Phone:	7145242590

EXXON #7-3650 (Continued) **S101589087**

Mail To:	Not reported
Mailing Address:	P O BOX 4386 ATTN: E
Mailing Address 2:	Not reported
Mailing City,St,Zip:	FULLERTON 92631
Contact:	Not reported
Contact Phone:	Not reported
DUNs Number:	Not reported
NPDES Number:	Not reported
EPA ID:	Not reported
Comments:	Not reported
Status:	Active

CERS TANKS:

Site ID:	86628
CERS ID:	10449958
Site Name:	WORLD OIL MARKETING COMPANY #107
CERS Description:	Chemical Storage Facilities

Violations:

Site ID:	86628
Site Name:	World Oil Marketing Company #107
Violation Date:	06-08-2017
Citation:	23 CCR 16 2636(f)(2) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2636(f)(2)
Violation Description:	Failure of the line leak detector (LLD) monitoring pressurized piping to meet one or more of the following requirements:Monitor at least hourly.Be capable of detecting a release of 3.0 gallons per hour at 10 p.s.i.g. Restrict or shut off the flow of product through the piping when a leak is detected.
Violation Notes:	Returned to compliance on 06/08/2017. 87 main MLLD failed testing. Replaced and retested at time of inspection.
Violation Division:	Fullerton City Fire Department
Violation Program:	UST
Violation Source:	CERS

Site ID:	86628
Site Name:	World Oil Marketing Company #107
Violation Date:	06-09-2016
Citation:	23 CCR 16 2712(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(i)
Violation Description:	Failure to submit, obtain approval, or maintain a complete/accurate response plan.
Violation Notes:	Returned to compliance on 06/09/2016. No copy of current response plan onsite.
Violation Division:	Fullerton City Fire Department
Violation Program:	UST
Violation Source:	CERS

Site ID:	86628
Site Name:	World Oil Marketing Company #107
Violation Date:	06-08-2018
Citation:	23 CCR 16 2641(h) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2641(h)
Violation Description:	Failure to have an approved UST Monitoring Plan.
Violation Notes:	Returned to compliance on 06/29/2018. MONITORING SITE MAP SHALL INCLUDE MLLD & MONITORING PANEL LOCATION.
Violation Division:	Fullerton City Fire Department

EXXON #7-3650 (Continued) **S101589087**

Violation Program: UST
Violation Source: CERS

Site ID: 86628
Site Name: World Oil Marketing Company #107
Violation Date: 06-08-2018
Citation: 23 CCR 16 2641(j) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2641(j)
Violation Description: Failure of the leak detection equipment to be installed, calibrated, operated, and/or maintained properly.
Violation Notes: Returned to compliance on 06/26/2018. 87 MAIN FILL SUMP 208 SENSOR FAILED - REPLACED AND RETESTED SAME DAY. 87 MAIN PLLD FAILED - REPLACED AND RETESTED 6/26.
Violation Division: Fullerton City Fire Department
Violation Program: UST
Violation Source: CERS

Site ID: 86628
Site Name: World Oil Marketing Company #107
Violation Date: 06-09-2016
Citation: 23 CCR 16 2712(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(i)
Violation Description: Failure to maintain on site an approved monitoring plan.
Violation Notes: Returned to compliance on 06/09/2016. No copy of current monitoring plan available onsite.
Violation Division: Fullerton City Fire Department
Violation Program: UST
Violation Source: CERS

Site ID: 86628
Site Name: World Oil Marketing Company #107
Violation Date: 06-09-2016
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes: Returned to compliance on 06/14/2016. Facility had carbon dioxide cylinders in excess of disclosable quantity (~1200 cubic feet). Facility reduced quantity on hand to below disclosure threshold.
Violation Division: Fullerton City Fire Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 86628
Site Name: World Oil Marketing Company #107
Violation Date: 06-09-2016
Citation: 23 CCR 16 2636(f)(2) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2636(f)(2)
Violation Description: Failure of the pressurized piping to meet one or more of the following requirements: monitored at least hourly with the capability of detecting a release of 3.0 gallons per hour, and will restrict the flow of product through the piping or trigger an alarm when a release occurs.
Violation Notes: Returned to compliance on 06/14/2016. 91 product MLLD failed testing. Replaced and retest witnessed.
Violation Division: Fullerton City Fire Department

EXXON #7-3650 (Continued) **S101589087**

Violation Program: UST
Violation Source: CERS

Site ID: 86628
Site Name: World Oil Marketing Company #107
Violation Date: 06-08-2017
Citation: 23 CCR 16 2641(j) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2641(j)
Violation Description: Failure of the leak detection equipment to be installed, calibrated, operated, and/or maintained properly.
Violation Notes: Returned to compliance on 06/08/2017. 87 main UST fill sump sensor failed initial testing. Sensor was cleaned and passed retesting at time of inspection.
Violation Division: Fullerton City Fire Department
Violation Program: UST
Violation Source: CERS

Evaluation:
Eval General Type: Other/Unknown
Eval Date: 05-13-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: CERS review: BA/OW pg
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-09-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Monitor certification performed at time of inspection.
Eval Division: Fullerton City Fire Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-11-2015
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Monitor certification performed this date. No violations observed.
Eval Division: Fullerton City Fire Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-30-2015
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: On site for the triennial Hazardous Waste (HW) inspection. Permission to inspect granted by World Oil/on site manager. There were (2) 55 gallon drums on site. They were empty and had HW labels completed except for the beginning accumulation date. Stored closed. Manifests were on site and available for review. Manifests for UST testing and maintenance only. No other HW. USTs regulated by FFD. EPA ID # OK. HMBEP is on site for FFD. Emergency response plan posted on site. Review trash and run off. No HW.

EXXON #7-3650 (Continued) **S101589087**

Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	04-29-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	CERS review: BA/OW pg
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	06-08-2017
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Fullerton City Fire Department
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	06-09-2016
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Fullerton City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	06-11-2015
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	No violations observed.
Eval Division:	Fullerton City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	06-08-2018
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	ANNUAL MONITOR CERTIFICATION OBSERVED THIS DAY.
Eval Division:	Fullerton City Fire Department
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	12-27-2018
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	On site for a routine hazardous waste inspection. Business ownership information was verified. Walked throughout the facility. Observed hazardous waste storage areas. Facility generates gasoline contaminated debris and water contaminated with gasoline Containers

EXXON #7-3650 (Continued) **S101589087**

were closed and properly labeled. Manifests were available and reviewed. Employees are reported to be trained. Emergency plan is available in binder at front counter. A perimeter walk was conducted and the dumpster enclosure was observed. No evidence of illegal dumping was noted. No hazardous waste violations were observed on this date.

Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-08-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: No violations observed.
Eval Division: Fullerton City Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-08-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: NO VIOLATIONS OBSERVED.
Eval Division: Fullerton City Fire Department
Eval Program: HMRRP
Eval Source: CERS

Coordinates:
Site ID: 86628
Facility Name: World Oil Marketing Company #107
Env Int Type Code: HWG
Program ID: 10449958
Coord Name: Not reported
Ref Point Type Desc: Center of a facility or station.
Latitude: 33.878230
Longitude: -117.878150

Affiliation:
Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 9302 Garfield Ave.
Affiliation City: South Gate
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 90280
Affiliation Phone: Not reported

Affiliation Type Desc: Identification Signer
Entity Name: Jim Tostado
Entity Title: Director
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported

EXXON #7-3650 (Continued) **S101589087**

Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Legal Owner
Entity Name:	World Oil Marketing Company
Entity Title:	Not reported
Affiliation Address:	9302 Garfield Ave.
Affiliation City:	South Gate
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	90280
Affiliation Phone:	(562) 928-0100
Affiliation Type Desc:	Property Owner
Entity Name:	World Oil Marketing Company
Entity Title:	Not reported
Affiliation Address:	9302 Garfield Ave.
Affiliation City:	South Gate
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	90280
Affiliation Phone:	(562) 928-0100
Affiliation Type Desc:	UST Permit Applicant
Entity Name:	Jim Tostado
Entity Title:	Director
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(562) 928-0100
Affiliation Type Desc:	UST Tank Owner
Entity Name:	World Oil Marketing Company
Entity Title:	Not reported
Affiliation Address:	9302 Garfield Ave.
Affiliation City:	South Gate
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	90280
Affiliation Phone:	(562) 928-0100
Affiliation Type Desc:	Document Preparer
Entity Name:	Evelyn Kywe
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Environmental Contact
Entity Name:	John Hundley
Entity Title:	Not reported
Affiliation Address:	9302 Garfield Ave.

EXXON #7-3650 (Continued) **S101589087**

Affiliation City:	South Gate
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	90280
Affiliation Phone:	Not reported

Affiliation Type Desc:	Parent Corporation
Entity Name:	World Oil Marketing Company
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	UST Tank Operator
Entity Name:	World Oil Marketing Company
Entity Title:	Not reported
Affiliation Address:	9302 Garfield Ave.
Affiliation City:	South Gate
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	90280
Affiliation Phone:	(562) 928-0100

Affiliation Type Desc:	CUPA District
Entity Name:	Orange County Env Health
Entity Title:	Not reported
Affiliation Address:	1241 East Dyer RoadSuite 120
Affiliation City:	Santa Ana
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92705-5611
Affiliation Phone:	(714) 433-6000

Affiliation Type Desc:	Operator
Entity Name:	World Oil Marketing Company
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(562) 928-0100

Affiliation Type Desc:	UST Property Owner Name
Entity Name:	World Oil Marketing Company
Entity Title:	Not reported
Affiliation Address:	9302 Garfield Ave.
Affiliation City:	South Gate
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	90280
Affiliation Phone:	(562) 928-0100

94 SSW 1/8-1/4 0.191 mi. 1006 ft. | **DALE & LYNDA MARTIN**
535 SYCAMORE AVE
FULLERTON, CA 92831 | **RCRA NonGen / NLR** | **1024775559**
CAC002995490

Relative: Lower

Actual: 219 ft.

RCRA NonGen / NLR:

Date form received by agency:	01/07/2019
Facility name:	DALE & LYNDA MARTIN
Facility address:	535 SYCAMORE AVE FULLERTON, CA 92831
EPA ID:	CAC002995490
Contact:	DALE & LYNDA MARTIN
Contact address:	535 SYCAMORE AVE FULLERTON, CA 92831
Contact country:	Not reported
Contact telephone:	714-319-9595
Contact email:	ADMIN@VIKINGENVIRO.COM
EPA Region:	09
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	DALE & LYNDA MARTIN
Owner/operator address:	535 SYCAMORE AVE FULLERTON, CA 92831
Owner/operator country:	Not reported
Owner/operator telephone:	714-319-9595
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Other
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	DALE & LYNDA MARTIN
Owner/operator address:	535 SYCAMORE AVE FULLERTON, CA 92831
Owner/operator country:	Not reported
Owner/operator telephone:	714-319-9595
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Other
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No

DALE & LYNDA MARTIN (Continued) **1024775559**

Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

N95
South
1/8-1/4
0.197 mi.
1041 ft.

HI-LO AUTO SUPPLY
2429 E CHAPMAN AVE
FULLERTON, CA 92632

CA CERS HAZ WASTE **S112867815**
CA HAZNET **N/A**

Site 1 of 7 in cluster N

Relative:
Lower

Actual:
223 ft.

CERS HAZ WASTE:
Site ID: 408830
CERS ID: 10707238
CERS Description: Hazardous Waste Generator

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-21-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: INSPECTOR COMMENTS On site for a routine hazardous waste inspection. Consent to inspect and take any necessary photos was given by Calvin Hagen, manager. Walked throughout the facility. Observed hazardous waste storage areas. Containers were closed and properly labeled. Manifest were available and reviewed. Employees are reported to be trained. Emergency plan was posted in the back of the store. The dumpster was observed, no signs of dumping.
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Coordinates:
Site ID: 408830
Facility Name: Office Depot #2215
Env Int Type Code: HWG
Program ID: 10707238
Coord Name: Not reported
Ref Point Type Desc: Center of a facility or station.
Latitude: 33.874330
Longitude: -117.888170

Affiliation:
Affiliation Type Desc: Document Preparer
Entity Name: John Storlie
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

HI-LO AUTO SUPPLY (Continued) **S112867815**

Affiliation Type Desc:	Environmental Contact
Entity Name:	Wendi Lane
Entity Title:	Not reported
Affiliation Address:	6600 N. Military Trail, Mail Code C492
Affiliation City:	Boca Raton
Affiliation State:	FL
Affiliation Country:	Not reported
Affiliation Zip:	33496
Affiliation Phone:	Not reported

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	2429 E Chapman Ave
Affiliation City:	Fullerton
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92831
Affiliation Phone:	Not reported

Affiliation Type Desc:	Legal Owner
Entity Name:	Office Depot, Inc.
Entity Title:	Not reported
Affiliation Address:	6600 N. Military Trail
Affiliation City:	Boca Raton
Affiliation State:	FL
Affiliation Country:	United States
Affiliation Zip:	33496
Affiliation Phone:	(561) 438-4800

Affiliation Type Desc:	CUPA District
Entity Name:	Orange County Env Health
Entity Title:	Not reported
Affiliation Address:	1241 East Dyer RoadSuite 120
Affiliation City:	Santa Ana
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92705-5611
Affiliation Phone:	(714) 433-6000

Affiliation Type Desc:	Operator
Entity Name:	Office Depot, Inc.
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(714) 773-1415

Affiliation Type Desc:	Parent Corporation
Entity Name:	Office Depot, Inc.
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported

HI-LO AUTO SUPPLY (Continued) **S112867815**

Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Property Owner
Entity Name:	College Square Joint Venture
Entity Title:	Not reported
Affiliation Address:	c/o Investment Concepts Inc. 1667 East Lincoln Avenue
Affiliation City:	Orange
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92865
Affiliation Phone:	(714) 283-5800
Affiliation Type Desc:	Identification Signer
Entity Name:	John Storlie
Entity Title:	Consultant acting for Office Depot
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

HAZNET:

Site Name:	HI-LO AUTO SUPPLY
Year:	1995
GEPAID:	CAC001129720
Contact:	BRIAN FREEBORN-CAL COORD
Telephone:	8188141541
Mailing Name:	Not reported
Mailing Address:	1705 W GARVEY AVE NORTH
Mailing City,St,Zip:	WEST COVINA, CA 917900000
Gen County:	Orange
TSD EPA ID:	CAT080022148
TSD County:	San Bernardino
Tons:	0.396
CA Waste Code:	214-Unspecified solvent mixture
Method:	H01-Transfer Station
Facility County:	Orange

N96
South
1/8-1/4
0.197 mi.
1041 ft.

COSMOPROF SUPPLY
2435 E CHAPMAN AVE
FULLERTON, CA 92831

CA CERS HAZ WASTE **S121020017**
CA HAZNET **N/A**
CA CERS

Site 2 of 7 in cluster N

Relative:
Lower

Actual:
223 ft.

CERS HAZ WASTE:

Site ID:	366889
CERS ID:	10666423
CERS Description:	Hazardous Waste Generator

Coordinates:

Site ID:	366889
Facility Name:	COSMOPROF SUPPLY
Env Int Type Code:	HWG
Program ID:	10666423
Coord Name:	Not reported

COSMOPROF SUPPLY (Continued) **S121020017**

Ref Point Type Desc:	Center of a facility or station.
Latitude:	33.874330
Longitude:	-117.888070

Affiliation:

Affiliation Type Desc:	CUPA District
Entity Name:	Orange County Env Health
Entity Title:	Not reported
Affiliation Address:	1241 East Dyer RoadSuite 120
Affiliation City:	Santa Ana
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92705-5611
Affiliation Phone:	(714) 433-6000

Affiliation Type Desc:	Document Preparer
Entity Name:	Larry Burton
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Legal Owner
Entity Name:	Sally Beauty Holding LLC
Entity Title:	Not reported
Affiliation Address:	3001 COLORADO BLVD
Affiliation City:	DENTON
Affiliation State:	TX
Affiliation Country:	United States
Affiliation Zip:	76210
Affiliation Phone:	(940) 898-7500

Affiliation Type Desc:	Environmental Contact
Entity Name:	Randy Goss
Entity Title:	Not reported
Affiliation Address:	3001 COLORADO BLVD
Affiliation City:	DENTON
Affiliation State:	TX
Affiliation Country:	Not reported
Affiliation Zip:	76210
Affiliation Phone:	Not reported

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	2435 E CHAPMAN AVENUE
Affiliation City:	FULLERTON
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92831
Affiliation Phone:	Not reported

Affiliation Type Desc:	Identification Signer
Entity Name:	Larry Burton

COSMOPROF SUPPLY (Continued) **S121020017**

Entity Title:	Director, Temarry Recycling, Inc
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Operator
Entity Name:	Sally Beauty Holding LLC
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(940) 898-7500

Affiliation Type Desc:	Parent Corporation
Entity Name:	Sally Beauty Holding LLC
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

HAZNET:

Site Name:	COSMOPROF BEAUTY
Year:	2017
GEPAID:	CAL000412140
Contact:	RANDY GOSS
Telephone:	9408987500
Mailing Name:	Not reported
Mailing Address:	2435 E CHAPMAN AVE
Mailing City,St,Zip:	FULLERTON, CA 92831
Gen County:	Orange
TSD EPA ID:	MXC130619001
TSD County:	Not reported
Tons:	0.011
CA Waste Code:	331-Off-specification, aged or surplus organics
Method:	H020-Solvents Recovery
Facility County:	Orange

Site Name:	COSMOPROF BEAUTY
Year:	2017
GEPAID:	CAL000412140
Contact:	RANDY GOSS
Telephone:	9408987500
Mailing Name:	Not reported
Mailing Address:	2435 E CHAPMAN AVE
Mailing City,St,Zip:	FULLERTON, CA 92831
Gen County:	Orange
TSD EPA ID:	MXC130619001
TSD County:	Not reported

COSMOPROF SUPPLY (Continued) **S121020017**

Tons:	0.0275
CA Waste Code:	561-Detergent waste chemicals
Method:	H039-Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Facility County:	Orange

Site Name:	COSMOPROF BEAUTY
Year:	2016
GEPAID:	CAL000412140
Contact:	DAVID EPSTEIN
Telephone:	8566928100
Mailing Name:	Not reported
Mailing Address:	1920 HACIENDA DR
Mailing City,St,Zip:	VISTA, CA 92083
Gen County:	Orange
TSD EPA ID:	MXC130619001
TSD County:	Not reported
Tons:	0.0125
CA Waste Code:	561-Detergent waste chemicals
Method:	H039-Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Facility County:	Orange

Site Name:	COSMOPROF BEAUTY
Year:	2016
GEPAID:	CAL000412140
Contact:	DAVID EPSTEIN
Telephone:	8566928100
Mailing Name:	Not reported
Mailing Address:	1920 HACIENDA DR
Mailing City,St,Zip:	VISTA, CA 92083
Gen County:	Orange
TSD EPA ID:	MXC130619001
TSD County:	Not reported
Tons:	0.0315
CA Waste Code:	331-Off-specification, aged or surplus organics
Method:	H020-Solvents Recovery
Facility County:	Orange

Site Name:	COSMOPROF BEAUTY
Year:	2016
GEPAID:	CAL000412140
Contact:	DAVID EPSTEIN
Telephone:	8566928100
Mailing Name:	Not reported
Mailing Address:	1920 HACIENDA DR
Mailing City,St,Zip:	VISTA, CA 92083
Gen County:	Orange
TSD EPA ID:	MXC130619001
TSD County:	Not reported
Tons:	0.01
CA Waste Code:	561-Detergent waste chemicals
Method:	H123-Settling Or Clarification
Facility County:	Orange

COSMOPROF SUPPLY (Continued) **S121020017**

Click this hyperlink while viewing on your computer to access additional CA_HAZNET: detail in the EDR Site Report.

CERS TANKS:

Site ID:	366889
CERS ID:	10666423
Site Name:	COSMOPROF SUPPLY
CERS Description:	Chemical Storage Facilities

Coordinates:

Site ID:	366889
Facility Name:	COSMOPROF SUPPLY
Env Int Type Code:	HWG
Program ID:	10666423
Coord Name:	Not reported
Ref Point Type Desc:	Center of a facility or station.
Latitude:	33.874330
Longitude:	-117.888070

Affiliation:

Affiliation Type Desc:	CUPA District
Entity Name:	Orange County Env Health
Entity Title:	Not reported
Affiliation Address:	1241 East Dyer RoadSuite 120
Affiliation City:	Santa Ana
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92705-5611
Affiliation Phone:	(714) 433-6000

Affiliation Type Desc:	Document Preparer
Entity Name:	Larry Burton
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Legal Owner
Entity Name:	Sally Beauty Holding LLC
Entity Title:	Not reported
Affiliation Address:	3001 COLORADO BLVD
Affiliation City:	DENTON
Affiliation State:	TX
Affiliation Country:	United States
Affiliation Zip:	76210
Affiliation Phone:	(940) 898-7500

Affiliation Type Desc:	Environmental Contact
Entity Name:	Randy Goss
Entity Title:	Not reported
Affiliation Address:	3001 COLORADO BLVD
Affiliation City:	DENTON
Affiliation State:	TX
Affiliation Country:	Not reported

COSMOPROF SUPPLY (Continued) **S121020017**

Affiliation Zip:	76210
Affiliation Phone:	Not reported
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	2435 E CHAPMAN AVENUE
Affiliation City:	FULLERTON
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92831
Affiliation Phone:	Not reported
Affiliation Type Desc:	Identification Signer
Entity Name:	Larry Burton
Entity Title:	Director, Temarry Recycling, Inc
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Operator
Entity Name:	Sally Beauty Holding LLC
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(940) 898-7500
Affiliation Type Desc:	Parent Corporation
Entity Name:	Sally Beauty Holding LLC
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

O97 **ARCO 42004** **CA UST** **U003937822**
SSE **401 N PLACENTIA AVE** **N/A**
1/8-1/4 **FULLERTON, CA 92831**
0.216 mi.
1142 ft. **Site 1 of 15 in cluster O**

Relative:
Lower

Actual:
230 ft.

UST:

Facility ID:	Not reported
Permitting Agency:	Orange County Environmental Health
Latitude:	33.87434
Longitude:	-117.87931
Facility ID:	4671
Permitting Agency:	FULLERTON, CITY OF

ARCO 42004 (Continued) **U003937822**

Latitude: 33.875687
Longitude: -117.877962

O98 SSE 1/8-1/4 0.216 mi. 1142 ft. **ARCO #0097** **CA LUST** **S103950623**
401 N PLACENTIA AVENUE **CA CERS** **N/A**
FULLERTON, CA 92831

Site 2 of 15 in cluster O

Relative: Lower
Actual: 230 ft.

LUST:
Lead Agency: SANTA ANA RWQCB (REGION 8)
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0605900036
Global Id: T0605900036
Latitude: 33.874332
Longitude: -117.879297
Status: Completed - Case Closed
Status Date: 07/11/1996
Case Worker: VJB
RB Case Number: 083000044T
Local Agency: FULLERTON, CITY OF
File Location: Not reported
Local Case Number: Not reported
Potential Media Affect: Soil
Potential Contaminants of Concern: Gasoline
Site History: Not reported

LUST:
Global Id: T0605900036
Contact Type: Local Agency Caseworker
Contact Name: STEPHEN LONG
Organization Name: FULLERTON, CITY OF
Address: 312 E. COMMONWEALTH AVE.
City: FULLERTON
Email: stevel@fullertonfire.org
Phone Number: 7147383160

Global Id: T0605900036
Contact Type: Regional Board Caseworker
Contact Name: VALERIE JAHN-BULL
Organization Name: SANTA ANA RWQCB (REGION 8)
Address: 3737 MAIN STREET, SUITE 500
City: RIVERSIDE
Email: valerie.jahn-bull@waterboards.ca.gov
Phone Number: 9517824903

LUST:
Global Id: T0605900036
Action Type: Other
Date: 02/09/1987
Action: Leak Reported

Global Id: T0605900036
Action Type: ENFORCEMENT
Date: 07/11/1996
Action: Closure/No Further Action Letter

Global Id: T0605900036

ARCO #0097 (Continued) **S103950623**

Action Type:	ENFORCEMENT
Date:	05/24/1996
Action:	LOP Case Closure Summary to RB
Global Id:	T0605900036
Action Type:	Other
Date:	12/03/1986
Action:	Leak Stopped

LUST:

Global Id:	T0605900036
Status:	Completed - Case Closed
Status Date:	07/11/1996
Global Id:	T0605900036
Status:	Open - Case Begin Date
Status Date:	12/03/1986
Global Id:	T0605900036
Status:	Open - Remediation
Status Date:	01/15/1995
Global Id:	T0605900036
Status:	Open - Site Assessment
Status Date:	05/02/1990

Lead Agency:	SANTA ANA RWQCB (REGION 8)
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0605902316
Global Id:	T0605902316
Latitude:	33.874684234
Longitude:	-117.8793212
Status:	Completed - Case Closed
Status Date:	09/29/2016
Case Worker:	VJB
RB Case Number:	083003528T
Local Agency:	Not reported
File Location:	Regional Board
Local Case Number:	Not reported
Potential Media Affect:	Aquifer used for drinking water supply
Potential Contaminants of Concern:	Gasoline
Site History:	High dissolved-phase TBA in wells/CPTs along upgradient boundary of adjacent Unocal, directly downgradient of ARCO property.

LUST:

Global Id:	T0605902316
Contact Type:	Regional Board Caseworker
Contact Name:	VALERIE JAHN-BULL
Organization Name:	SANTA ANA RWQCB (REGION 8)
Address:	3737 MAIN STREET, SUITE 500
City:	RIVERSIDE
Email:	valerie.jahn-bull@waterboards.ca.gov
Phone Number:	9517824903

LUST:

Global Id:	T0605902316

ARCO #0097 (Continued) **S103950623**

Action Type: ENFORCEMENT
Date: 06/02/2016
Action: Staff Letter

Global Id: T0605902316
Action Type: RESPONSE
Date: 04/30/2006
Action: Soil and Water Investigation Report

Global Id: T0605902316
Action Type: RESPONSE
Date: 07/30/2005
Action: Monitoring Report - Quarterly

Global Id: T0605902316
Action Type: RESPONSE
Date: 10/30/2005
Action: Monitoring Report - Quarterly

Global Id: T0605902316
Action Type: RESPONSE
Date: 07/30/2012
Action: Other Report / Document

Global Id: T0605902316
Action Type: ENFORCEMENT
Date: 05/21/2007
Action: File review

Global Id: T0605902316
Action Type: ENFORCEMENT
Date: 04/29/2004
Action: File review

Global Id: T0605902316
Action Type: ENFORCEMENT
Date: 12/11/2003
Action: * No Action

Global Id: T0605902316
Action Type: ENFORCEMENT
Date: 07/08/2008
Action: Meeting

Global Id: T0605902316
Action Type: ENFORCEMENT
Date: 01/27/2009
Action: File review

Global Id: T0605902316
Action Type: ENFORCEMENT
Date: 09/29/2016
Action: Closure/No Further Action Letter

Global Id: T0605902316
Action Type: ENFORCEMENT
Date: 03/03/2016

ARCO #0097 (Continued) **S103950623**

Action: Notification - Public Notice of Case Closure

Global Id: T0605902316
Action Type: ENFORCEMENT
Date: 09/21/2016
Action: File review

Global Id: T0605902316
Action Type: ENFORCEMENT
Date: 11/08/2015
Action: Technical Correspondence / Assistance / Other

Global Id: T0605902316
Action Type: ENFORCEMENT
Date: 02/10/2016
Action: Technical Correspondence / Assistance / Other

Global Id: T0605902316
Action Type: Other
Date: 08/09/1999
Action: Leak Reported

Global Id: T0605902316
Action Type: RESPONSE
Date: 12/15/2005
Action: Soil and Water Investigation Workplan

Global Id: T0605902316
Action Type: RESPONSE
Date: 10/30/2006
Action: Monitoring Report - Quarterly

Global Id: T0605902316
Action Type: RESPONSE
Date: 04/30/2006
Action: Monitoring Report - Quarterly

Global Id: T0605902316
Action Type: RESPONSE
Date: 10/31/2012
Action: Remedial Progress Report

Global Id: T0605902316
Action Type: RESPONSE
Date: 01/31/2013
Action: Other Report / Document

Global Id: T0605902316
Action Type: ENFORCEMENT
Date: 06/10/2009
Action: File review

Global Id: T0605902316
Action Type: ENFORCEMENT
Date: 02/25/2016
Action: File review

ARCO #0097 (Continued) **S103950623**

Global Id: T0605902316
Action Type: ENFORCEMENT
Date: 03/03/2016
Action: Notification - Fee Title Owners Notice

Global Id: T0605902316
Action Type: RESPONSE
Date: 01/31/2007
Action: Monitoring Report - Quarterly

Global Id: T0605902316
Action Type: RESPONSE
Date: 04/30/2007
Action: Monitoring Report - Quarterly

Global Id: T0605902316
Action Type: RESPONSE
Date: 07/30/2007
Action: Monitoring Report - Quarterly

Global Id: T0605902316
Action Type: RESPONSE
Date: 04/30/2013
Action: Other Report / Document

Global Id: T0605902316
Action Type: ENFORCEMENT
Date: 07/28/2009
Action: Staff Letter

Global Id: T0605902316
Action Type: ENFORCEMENT
Date: 07/01/2009
Action: File review

Global Id: T0605902316
Action Type: RESPONSE
Date: 10/30/2008
Action: Monitoring Report - Other

Global Id: T0605902316
Action Type: RESPONSE
Date: 04/30/2009
Action: Monitoring Report - Annually

Global Id: T0605902316
Action Type: RESPONSE
Date: 07/30/2008
Action: Monitoring Report - Quarterly

Global Id: T0605902316
Action Type: RESPONSE
Date: 10/30/2007
Action: Monitoring Report - Quarterly

Global Id: T0605902316
Action Type: RESPONSE

ARCO #0097 (Continued) **S103950623**

Date: 04/30/2008
Action: Monitoring Report - Quarterly

Global Id: T0605902316
Action Type: RESPONSE
Date: 01/30/2008
Action: Other Report / Document

Global Id: T0605902316
Action Type: RESPONSE
Date: 10/30/2003
Action: Monitoring Report - Quarterly

Global Id: T0605902316
Action Type: RESPONSE
Date: 09/03/2016
Action: Well Destruction Report - Regulator Responded

Global Id: T0605902316
Action Type: ENFORCEMENT
Date: 11/01/2004
Action: File review

Global Id: T0605902316
Action Type: ENFORCEMENT
Date: 01/10/2006
Action: Staff Letter

Global Id: T0605902316
Action Type: ENFORCEMENT
Date: 11/10/2009
Action: Site Visit / Inspection / Sampling

Global Id: T0605902316
Action Type: ENFORCEMENT
Date: 02/02/2010
Action: File review

Global Id: T0605902316
Action Type: ENFORCEMENT
Date: 11/19/2009
Action: File review

Global Id: T0605902316
Action Type: ENFORCEMENT
Date: 01/03/2011
Action: Technical Correspondence / Assistance / Other

Global Id: T0605902316
Action Type: ENFORCEMENT
Date: 08/04/2011
Action: File review

Global Id: T0605902316
Action Type: ENFORCEMENT
Date: 05/16/2013
Action: File review

ARCO #0097 (Continued) **S103950623**

Global Id: T0605902316
Action Type: RESPONSE
Date: 01/30/2009
Action: Monitoring Report - Annually

Global Id: T0605902316
Action Type: RESPONSE
Date: 10/30/2009
Action: Monitoring Report - Quarterly

Global Id: T0605902316
Action Type: RESPONSE
Date: 07/01/2008
Action: Other Report / Document

Global Id: T0605902316
Action Type: RESPONSE
Date: 07/30/2009
Action: Remedial Progress Report

Global Id: T0605902316
Action Type: RESPONSE
Date: 01/31/2004
Action: Monitoring Report - Quarterly

Global Id: T0605902316
Action Type: RESPONSE
Date: 01/30/2008
Action: Monitoring Report - Quarterly

Global Id: T0605902316
Action Type: RESPONSE
Date: 01/31/2006
Action: Monitoring Report - Quarterly

Global Id: T0605902316
Action Type: RESPONSE
Date: 04/30/2014
Action: Monitoring Report - Annually

Global Id: T0605902316
Action Type: ENFORCEMENT
Date: 05/10/2005
Action: Staff Letter

Global Id: T0605902316
Action Type: ENFORCEMENT
Date: 10/14/2004
Action: File review

Global Id: T0605902316
Action Type: ENFORCEMENT
Date: 04/13/2014
Action: File review

Global Id: T0605902316
Action Type: ENFORCEMENT

ARCO #0097 (Continued) **S103950623**

Date: 03/18/2015
Action: File review

Global Id: T0605902316
Action Type: ENFORCEMENT
Date: 03/25/2015
Action: File review

Global Id: T0605902316
Action Type: RESPONSE
Date: 07/30/2014
Action: Remedial Progress Report

Global Id: T0605902316
Action Type: RESPONSE
Date: 04/30/2015
Action: Remedial Progress Report

Global Id: T0605902316
Action Type: RESPONSE
Date: 10/31/2014
Action: Remedial Progress Report

Global Id: T0605902316
Action Type: RESPONSE
Date: 01/31/2015
Action: Remedial Progress Report

Global Id: T0605902316
Action Type: ENFORCEMENT
Date: 02/07/2006
Action: File review

Global Id: T0605902316
Action Type: ENFORCEMENT
Date: 11/15/2006
Action: File review

Global Id: T0605902316
Action Type: RESPONSE
Date: 02/26/2004
Action: Other Report / Document

Global Id: T0605902316
Action Type: ENFORCEMENT
Date: 04/02/2007
Action: File review

Global Id: T0605902316
Action Type: ENFORCEMENT
Date: 11/16/2005
Action: Staff Letter

Global Id: T0605902316
Action Type: ENFORCEMENT
Date: 04/18/2006
Action: Verbal Communication

ARCO #0097 (Continued) **S103950623**

Global Id: T0605902316
Action Type: ENFORCEMENT
Date: 05/16/2006
Action: Verbal Communication

Global Id: T0605902316
Action Type: RESPONSE
Date: 08/29/2003
Action: Soil and Water Investigation Workplan

Global Id: T0605902316
Action Type: RESPONSE
Date: 07/15/2003
Action: Monitoring Report - Quarterly

Global Id: T0605902316
Action Type: RESPONSE
Date: 07/30/2003
Action: Monitoring Report - Quarterly

Global Id: T0605902316
Action Type: RESPONSE
Date: 10/30/2010
Action: Monitoring Report - Annually

Global Id: T0605902316
Action Type: RESPONSE
Date: 11/29/2010
Action: Request for Closure

Global Id: T0605902316
Action Type: ENFORCEMENT
Date: 12/29/2005
Action: File review

Global Id: T0605902316
Action Type: ENFORCEMENT
Date: 08/01/2006
Action: File review

Global Id: T0605902316
Action Type: ENFORCEMENT
Date: 10/31/2007
Action: File review

Global Id: T0605902316
Action Type: ENFORCEMENT
Date: 01/29/2008
Action: Staff Letter

Global Id: T0605902316
Action Type: ENFORCEMENT
Date: 08/14/2007
Action: File review

Global Id: T0605902316
Action Type: Other

ARCO #0097 (Continued) **S103950623**

Date: 07/17/1998
Action: Leak Discovery

Global Id: T0605902316
Action Type: RESPONSE
Date: 04/30/2004
Action: Soil and Water Investigation Report

Global Id: T0605902316
Action Type: RESPONSE
Date: 04/30/2004
Action: Monitoring Report - Quarterly

Global Id: T0605902316
Action Type: RESPONSE
Date: 04/30/2004
Action: CAP/RAP - Feasibility Study Report

Global Id: T0605902316
Action Type: RESPONSE
Date: 10/30/2004
Action: Monitoring Report - Quarterly

Global Id: T0605902316
Action Type: RESPONSE
Date: 01/31/2005
Action: Monitoring Report - Quarterly

Global Id: T0605902316
Action Type: RESPONSE
Date: 04/30/2011
Action: Other Report / Document

Global Id: T0605902316
Action Type: RESPONSE
Date: 07/30/2011
Action: Other Report / Document

Global Id: T0605902316
Action Type: ENFORCEMENT
Date: 09/29/2003
Action: Staff Letter

Global Id: T0605902316
Action Type: ENFORCEMENT
Date: 06/24/2003
Action: * No Action

Global Id: T0605902316
Action Type: ENFORCEMENT
Date: 07/29/2003
Action: * No Action

Global Id: T0605902316
Action Type: ENFORCEMENT
Date: 08/05/2003
Action: Staff Letter

ARCO #0097 (Continued) **S103950623**

Global Id: T0605902316
Action Type: ENFORCEMENT
Date: 02/01/2005
Action: File review

Global Id: T0605902316
Action Type: ENFORCEMENT
Date: 02/07/2008
Action: File review

Global Id: T0605902316
Action Type: Other
Date: 07/17/1998
Action: Leak Stopped

Global Id: T0605902316
Action Type: RESPONSE
Date: 07/30/2004
Action: Monitoring Report - Quarterly

Global Id: T0605902316
Action Type: RESPONSE
Date: 04/30/2005
Action: Monitoring Report - Quarterly

Global Id: T0605902316
Action Type: RESPONSE
Date: 07/31/2006
Action: Monitoring Report - Quarterly

Global Id: T0605902316
Action Type: RESPONSE
Date: 10/31/2011
Action: Other Report / Document

Global Id: T0605902316
Action Type: RESPONSE
Date: 04/30/2012
Action: Monitoring Report - Annually

Global Id: T0605902316
Action Type: RESPONSE
Date: 01/31/2012
Action: Other Report / Document

Global Id: T0605902316
Action Type: RESPONSE
Date: 12/28/2010
Action: Request for Closure - Regulator Responded

Global Id: T0605902316
Action Type: ENFORCEMENT
Date: 02/26/2004
Action: * No Action

Global Id: T0605902316
Action Type: ENFORCEMENT

ARCO #0097 (Continued) **S103950623**

Date: 05/05/2008
Action: File review

Global Id: T0605902316
Action Type: ENFORCEMENT
Date: 01/23/2008
Action: Meeting

LUST:
Global Id: T0605902316
Status: Completed - Case Closed
Status Date: 09/29/2016

Global Id: T0605902316
Status: Open - Case Begin Date
Status Date: 07/17/1998

Global Id: T0605902316
Status: Open - Eligible for Closure
Status Date: 06/01/2012

Global Id: T0605902316
Status: Open - Eligible for Closure
Status Date: 05/16/2013

Global Id: T0605902316
Status: Open - Site Assessment
Status Date: 07/17/1999

Global Id: T0605902316
Status: Open - Site Assessment
Status Date: 08/29/2003

Global Id: T0605902316
Status: Open - Site Assessment
Status Date: 12/15/2005

Global Id: T0605902316
Status: Open - Verification Monitoring
Status Date: 01/31/2005

Global Id: T0605902316
Status: Open - Verification Monitoring
Status Date: 01/01/2010

Global Id: T0605902316
Status: Open - Verification Monitoring
Status Date: 04/14/2010

CERS TANKS:
Site ID: 253390
CERS ID: T0605902316
Site Name: ARCO #0097
CERS Description: Leaking Underground Storage Tank Cleanup Site

ARCO #0097 (Continued) **S103950623**

Affiliation:

Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	VALERIE JAHN-BULL - SANTA ANA RWQCB (REGION 8)
Entity Title:	Not reported
Affiliation Address:	3737 MAIN STREET, SUITE 500
Affiliation City:	RIVERSIDE
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	9517824903

Site ID:	230686
CERS ID:	T0605900036
Site Name:	ARCO #0097
CERS Description:	Leaking Underground Storage Tank Cleanup Site

Affiliation:

Affiliation Type Desc:	Local Agency Caseworker
Entity Name:	STEPHEN LONG - FULLERTON, CITY OF
Entity Title:	Not reported
Affiliation Address:	312 E. COMMONWEALTH AVE.
Affiliation City:	FULLERTON
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	7147383160

Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	VALERIE JAHN-BULL - SANTA ANA RWQCB (REGION 8)
Entity Title:	Not reported
Affiliation Address:	3737 MAIN STREET, SUITE 500
Affiliation City:	RIVERSIDE
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	9517824903

O99
SSE
1/8-1/4
0.216 mi.
1142 ft.

Relative:
Lower

Actual:
230 ft.

ARCO FAC #97
401 N PLACENTIA AVE
FULLERTON, CA 92631

Site 3 of 15 in cluster O

CA LUST **S101588956**
CA CERS HAZ WASTE **N/A**
CA SWEEPS UST
CA CERS TANKS
CA FID UST
CA CERS

ORANGE CO. LUST:

Region:	ORANGE
Facility Id:	86UT220
Released Substance:	Gasoline-Automotive (motor gasoline and additives), leaded & unleaded
Date Closed:	04/01/1991
Record ID:	RO0001169

CERS HAZ WASTE:

Site ID:	93058
CERS ID:	10402786
CERS Description:	Hazardous Waste Generator

ARCO FAC #97 (Continued) **S101588956**

Violations:

Site ID:	93058
Site Name:	ARCO 42004
Violation Date:	09-27-2016
Citation:	23 CCR 16 2636(f)(2) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2636(f)(2)
Violation Description:	Failure of the line leak detector (LLD) monitoring pressurized piping to meet one or more of the following requirements:Monitor at least hourly.Be capable of detecting a release of 3.0 gallons per hour at 10 p.s.i.g. Restrict or shut off the flow of product through the piping when a leak is detected.
Violation Notes:	Returned to compliance on 09/28/2016. 91 product UST PLLD failed testing. After repairs, it passed retesting.
Violation Division:	Fullerton City Fire Department
Violation Program:	UST
Violation Source:	CERS

Site ID:	93058
Site Name:	ARCO 42004
Violation Date:	02-28-2017
Citation:	22 CCR 23 66273.34 - California Code of Regulations, Title 22, Chapter 23, Section(s) 66273.34
Violation Description:	Failure to label or mark each individual or container or the designated area of universal waste as required. 1) Waste batteries shall be marked with "Universal Waste-Battery(ies)?. 2) Mercury containing equipment shall be marked with "Universal Waste -Mercury-Containing Equipment?. 3) Lamps shall be marked with ?Universal Waste-Lamp(s)?. 4)Each electronic devices or the container or the designated area shall be marked with ?Universal Waste-Electronic Device(s)?. 5) Each CRTs or the container or the designated area shall be marked with "Universal Waste-CRT(s)?. 6) CRT glass or the designated area shall be marked with ?Universal Waste-CRT glass?.
Violation Notes:	Returned to compliance on 03/03/2017. -Universal waste in not stored in a closed container with the words universal waste, accumulation start date, and contents composition. -Properly store and label universal waste light bulbs immediately
Violation Division:	Orange County Environmental Health
Violation Program:	HW
Violation Source:	CERS

Site ID:	93058
Site Name:	ARCO 42004
Violation Date:	10-22-2013
Citation:	HSC 6.7 25299 - California Health and Safety Code, Chapter 6.7, Section(s) 25299
Violation Description:	Failure to comply with one or more of the operating permit conditions.
Violation Notes:	Not reported
Violation Division:	Orange County Environmental Health
Violation Program:	UST
Violation Source:	CERS

Site ID:	93058
Site Name:	ARCO 42004
Violation Date:	10-22-2013
Citation:	HSC 6.95 25504(a) - California Health and Safety Code, Chapter 6.95, Section(s) 25504(a)

ARCO FAC #97 (Continued) **S101588956**

Violation Description: Failure to complete and/or submit hazardous material inventory forms for all reportable hazardous materials on site.
Violation Notes: Not reported
Violation Division: Orange County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 93058
Site Name: ARCO 42004
Violation Date: 09-27-2016
Citation: 23 CCR 16 2665 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2665
Violation Description: Failure of the overfill prevention system to meet one of the following requirements: Alert the transfer operator when the tank is 90 percent full by restricting the flow into the tank or triggering an audible and visual alarm; or Restrict delivery of flow to the tank at least 30 minutes before the tank overfills, provided the restriction occurs when the tank is filled to no more than 95 percent of capacity; and activate an audible alarm at least five minutes before the tank overfills; or Provide positive shut-off of flow to the tank when the tank is filled to no more than 95 percent of capacity; or Provide positive shut-off of flow to the tank so that none of the fittings located on the top of the tank are exposed to product due to overfilling.
Violation Notes: Returned to compliance on 09/27/2016. Audio annunciator for overfill alarm failed to function. Repaired at time of inspection.
Violation Division: Fullerton City Fire Department
Violation Program: UST
Violation Source: CERS

Evaluation:
Eval General Type: Other/Unknown
Eval Date: 02-19-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Rosie Rangel of Tesoro Refining and Marketing Co LLC indicated that Arco sold this facility to Tesoro in July of 2013. Email sent to the inspector.
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-04-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: No violations observed.
Eval Division: Fullerton City Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-06-2015
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Monitor certification performed this date. No violations observed
Eval Division: Fullerton City Fire Department

ARCO FAC #97 (Continued) **S101588956**

Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	02-28-2017
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	INSPECTOR COMMENTS On site for a routine hazardous waste inspection. Consent to inspect and take any necessary photos was given by Frank Perez, cashier. Walked throughout the facility. Observed hazardous waste storage areas. Containers were closed and properly labeled. Manifest were not available and reviewed, owner only has access to the manifest and he was not on-site. Employees are reported to be trained. Emergency plan was posted behind front counter The trash cans were observed, universal waste lamps were found in the dumpster, facility was informed that waste lamps must be hauled away as universal waste.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	03-03-2017
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	INSPECTOR COMMENTS On-site to conduct follow-up inspection, met with Joseph, manager. Manifest were available and reviewed. Universal waste bulbs were taken by the company that changes the bulbs, universal waste management was discussed. Violation I135 has been corrected. No outstanding violations at this time.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	09-19-2017
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	No violations observed.
Eval Division:	Fullerton City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	09-19-2017
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	No violations observed.
Eval Division:	Fullerton City Fire Department
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	09-27-2016
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	No violations observed.
Eval Division:	Fullerton City Fire Department

ARCO FAC #97 (Continued) **S101588956**

Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	09-28-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Reinspection to witness retest of 91 PLLD.
Eval Division:	Fullerton City Fire Department
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	10-22-2013
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	CHEMICAL INVENTORY IS INCOMPLETE OR NEEDS TO BE UPDATED
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	02-26-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	On site inspection. Arco has sold the station/USTs/HW to Tesoro. RUR and close out this Arco site. A21 the new Tesoro site.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	09-04-2018
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Annual monitor certification observed this day. No violations observed.
Eval Division:	Fullerton City Fire Department
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	09-27-2016
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Monitor certification performed this date.
Eval Division:	Fullerton City Fire Department
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	10-06-2015
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	No violations observed
Eval Division:	Fullerton City Fire Department
Eval Program:	HMRRP

ARCO FAC #97 (Continued) **S101588956**

Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-22-2013
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: FAILURE TO MONITOR THE TANK SYSTEM USING THE METHOD SPECIFIED ON THE PERMIT
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Enforcement Action:
Site ID: 93058
Site Name: ARCO 42004
Site Address: 401 N PLACENTIA AVE
Site City: FULLERTON
Site Zip: 92831
Enf Action Date: 10-22-2013
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Orange County Environmental Health
Enf Action Program: HMRRP
Enf Action Source: CERS

Site ID: 93058
Site Name: ARCO 42004
Site Address: 401 N PLACENTIA AVE
Site City: FULLERTON
Site Zip: 92831
Enf Action Date: 10-22-2013
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Orange County Environmental Health
Enf Action Program: UST
Enf Action Source: CERS

Coordinates:
Site ID: 93058
Facility Name: ARCO 42004
Env Int Type Code: HWG
Program ID: 10402786
Coord Name: Not reported
Ref Point Type Desc: Center of a facility or station.
Latitude: 33.874340
Longitude: -117.879310

Affiliation:
Affiliation Type Desc: CUPA District
Entity Name: Orange County Env Health
Entity Title: Not reported
Affiliation Address: 1241 East Dyer RoadSuite 120
Affiliation City: Santa Ana
Affiliation State: CA

ARCO FAC #97 (Continued) **S101588956**

Affiliation Country:	Not reported
Affiliation Zip:	92705-5611
Affiliation Phone:	(714) 433-6000
Affiliation Type Desc:	UST Tank Operator
Entity Name:	AW CONVENIENCE, INC. (ARA WANSIKEHIAN)
Entity Title:	Not reported
Affiliation Address:	401 N PLACENTIA AVE
Affiliation City:	FULLERTON
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92831
Affiliation Phone:	(714) 914-4664
Affiliation Type Desc:	UST Tank Owner
Entity Name:	TREASURE FRANCHISE COMPANY LLC
Entity Title:	Not reported
Affiliation Address:	RETAIL ENVIRONMENTAL: 19100 RIDGEWOOD PKWY, MS: TX1-022
Affiliation City:	SAN ANTONIO
Affiliation State:	TX
Affiliation Country:	United States
Affiliation Zip:	78259
Affiliation Phone:	(210) 626-6153
Affiliation Type Desc:	Operator
Entity Name:	ARA WANSIKEHIAN
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(714) 914-4664
Affiliation Type Desc:	UST Permit Applicant
Entity Name:	TERESA A. MILES
Entity Title:	ENVIRONMENTAL COMPLIANCE SUPERVISOR
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(562) 495-6850
Affiliation Type Desc:	Document Preparer
Entity Name:	BELSHIRE ENVIRONMENTAL SERVICES, INC
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Environmental Contact
Entity Name:	BURKE ALBELDA
Entity Title:	Not reported

ARCO FAC #97 (Continued) **S101588956**

Affiliation Address:	400 OCEANGATE BLVD., SUITE 600
Affiliation City:	LONG BEACH
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	90802
Affiliation Phone:	Not reported

Affiliation Type Desc:	Legal Owner
Entity Name:	TREASURE FRANCHISE COMPANY LLC
Entity Title:	Not reported
Affiliation Address:	RETAIL ENVIRONMENTAL: 19100 RIDGEWOOD PKWY, MS: TX1-022
Affiliation City:	SAN ANTONIO
Affiliation State:	TX
Affiliation Country:	United States
Affiliation Zip:	78259
Affiliation Phone:	(210) 626-6153

Affiliation Type Desc:	Property Owner
Entity Name:	TREASURE FRANCHISE COMPANY LLC
Entity Title:	Not reported
Affiliation Address:	RETAIL ENVIRONMENTAL: 19100 RIDGEWOOD PKWY, MS: TX1-022
Affiliation City:	SAN ANTONIO
Affiliation State:	TX
Affiliation Country:	United States
Affiliation Zip:	78259
Affiliation Phone:	(210) 626-6153

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	19100 RIDGEWOOD PKWY, MS: TX1-022
Affiliation City:	SAN ANTONIO
Affiliation State:	TX
Affiliation Country:	Not reported
Affiliation Zip:	78259
Affiliation Phone:	Not reported

Affiliation Type Desc:	Identification Signer
Entity Name:	TERESA A. MILES
Entity Title:	ENVIRONMENTAL COMPLIANCE SUPERVISOR
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Parent Corporation
Entity Name:	Tesoro Refining and Marketing Company LLC
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

ARCO FAC #97 (Continued) **S101588956**

Affiliation Type Desc:	UST Property Owner Name
Entity Name:	TREASURE FRANCHISE COMPANY LLC
Entity Title:	Not reported
Affiliation Address:	RETAIL ENVIRONMENTAL: 19100 RIDGEWOOD PKWY, MS: TX1-022
Affiliation City:	SAN ANTONIO
Affiliation State:	TX
Affiliation Country:	United States
Affiliation Zip:	78259
Affiliation Phone:	(210) 626-6153

SWEEPS UST:

Status:	Active
Comp Number:	4671
Number:	1
Board Of Equalization:	44-000506
Referral Date:	03-19-91
Action Date:	09-21-92
Created Date:	12-31-88
Owner Tank Id:	TANK1
SWRCB Tank Id:	30-013-004671-000001
Tank Status:	A
Capacity:	12000
Active Date:	03-19-91
Tank Use:	M.V. FUEL
STG:	P
Content:	REG UNLEADED
Number Of Tanks:	3

Status:	Active
Comp Number:	4671
Number:	1
Board Of Equalization:	44-000506
Referral Date:	03-19-91
Action Date:	09-21-92
Created Date:	12-31-88
Owner Tank Id:	TANK2
SWRCB Tank Id:	30-013-004671-000002
Tank Status:	A
Capacity:	12000
Active Date:	03-19-91
Tank Use:	M.V. FUEL
STG:	P
Content:	REG UNLEADED
Number Of Tanks:	Not reported

Status:	Active
Comp Number:	4671
Number:	1
Board Of Equalization:	44-000506
Referral Date:	03-19-91
Action Date:	09-21-92
Created Date:	12-31-88
Owner Tank Id:	TANK3
SWRCB Tank Id:	30-013-004671-000003
Tank Status:	A
Capacity:	12000

ARCO FAC #97 (Continued) **S101588956**

Active Date: 03-19-91
Tank Use: M.V. FUEL
STG: P
Content: PRM UNLEADED
Number Of Tanks: Not reported

CERS TANKS:
Facility Name: ARCO 42004
Site ID: 93058
CERS ID: 10402786
CERS Description: Underground Storage Tank

Violations:
Site ID: 93058
Site Name: ARCO 42004
Violation Date: 09-27-2016
Citation: 23 CCR 16 2636(f)(2) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2636(f)(2)
Violation Description: Failure of the line leak detector (LLD) monitoring pressurized piping to meet one or more of the following requirements:Monitor at least hourly.Be capable of detecting a release of 3.0 gallons per hour at 10 p.s.i.g. Restrict or shut off the flow of product through the piping when a leak is detected.
Violation Notes: Returned to compliance on 09/28/2016. 91 product UST PLLD failed testing. After repairs, it passed retesting.
Violation Division: Fullerton City Fire Department
Violation Program: UST
Violation Source: CERS

Site ID: 93058
Site Name: ARCO 42004
Violation Date: 02-28-2017
Citation: 22 CCR 23 66273.34 - California Code of Regulations, Title 22, Chapter 23, Section(s) 66273.34
Violation Description: Failure to label or mark each individual or container or the designated area of universal waste as required. 1) Waste batteries shall be marked with "Universal Waste-Battery(ies)?. 2) Mercury containing equipment shall be marked with "Universal Waste -Mercury-Containing Equipment?. 3) Lamps shall be marked with ?Universal Waste-Lamp(s)?. 4)Each electronic devices or the container or the designated area shall be marked with ?Universal Waste-Electronic Device(s)?. 5) Each CRTs or the container or the designated area shall be marked with "Universal Waste-CRT(s)?. 6) CRT glass or the designated area shall be marked with ?Universal Waste-CRT glass?.
Violation Notes: Returned to compliance on 03/03/2017. -Universal waste in not stored in a closed container with the words universal waste, accumulation start date, and contents composition. -Properly store and label universal waste light bulbs immediately
Violation Division: Orange County Environmental Health
Violation Program: HW
Violation Source: CERS

Site ID: 93058
Site Name: ARCO 42004
Violation Date: 10-22-2013
Citation: HSC 6.7 25299 - California Health and Safety Code, Chapter 6.7,

ARCO FAC #97 (Continued) **S101588956**

Section(s) 25299
Violation Description: Failure to comply with one or more of the operating permit conditions.
Violation Notes: Not reported
Violation Division: Orange County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 93058
Site Name: ARCO 42004
Violation Date: 10-22-2013
Citation: HSC 6.95 25504(a) - California Health and Safety Code, Chapter 6.95, Section(s) 25504(a)
Violation Description: Failure to complete and/or submit hazardous material inventory forms for all reportable hazardous materials on site.
Violation Notes: Not reported
Violation Division: Orange County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 93058
Site Name: ARCO 42004
Violation Date: 09-27-2016
Citation: 23 CCR 16 2665 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2665
Violation Description: Failure of the overfill prevention system to meet one of the following requirements: Alert the transfer operator when the tank is 90 percent full by restricting the flow into the tank or triggering an audible and visual alarm; or Restrict delivery of flow to the tank at least 30 minutes before the tank overfills, provided the restriction occurs when the tank is filled to no more than 95 percent of capacity; and activate an audible alarm at least five minutes before the tank overfills; or Provide positive shut-off of flow to the tank when the tank is filled to no more than 95 percent of capacity; or Provide positive shut-off of flow to the tank so that none of the fittings located on the top of the tank are exposed to product due to overfilling.
Violation Notes: Returned to compliance on 09/27/2016. Audio annunciator for overfill alarm failed to function. Repaired at time of inspection.
Violation Division: Fullerton City Fire Department
Violation Program: UST
Violation Source: CERS

Evaluation:
Eval General Type: Other/Unknown
Eval Date: 02-19-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Rosie Rangel of Tesoro Refining and Marketing Co LLC indicated that Arco sold this facility to Tesoro in July of 2013. Email sent to the inspector.
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-04-2018
Violations Found: No

ARCO FAC #97 (Continued) **S101588956**

Eval Type:	Routine done by local agency
Eval Notes:	No violations observed.
Eval Division:	Fullerton City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	10-06-2015
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Monitor certification performed this date. No violations observed
Eval Division:	Fullerton City Fire Department
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	02-28-2017
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	INSPECTOR COMMENTS On site for a routine hazardous waste inspection. Consent to inspect and take any necessary photos was given by Frank Perez, cashier. Walked throughout the facility. Observed hazardous waste storage areas. Containers were closed and properly labeled. Manifest were not available and reviewed, owner only has access to the manifest and he was not on-site. Employees are reported to be trained. Emergency plan was posted behind front counter The trash cans were observed, universal waste lamps were found in the dumpster, facility was informed that waste lamps must be hauled away as universal waste.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	03-03-2017
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	INSPECTOR COMMENTS On-site to conduct follow-up inspection, met with Joseph, manager. Manifest were available and reviewed. Universal waste bulbs were taken by the company that changes the bulbs, universal waste management was discussed. Violation I135 has been corrected. No outstanding violations at this time.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	09-19-2017
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	No violations observed.
Eval Division:	Fullerton City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	09-19-2017
Violations Found:	No

ARCO FAC #97 (Continued) **S101588956**

Eval Type:	Routine done by local agency
Eval Notes:	No violations observed.
Eval Division:	Fullerton City Fire Department
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	09-27-2016
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	No violations observed.
Eval Division:	Fullerton City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	09-28-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Reinspection to witness retest of 91 PLLD.
Eval Division:	Fullerton City Fire Department
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	10-22-2013
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	CHEMICAL INVENTORY IS INCOMPLETE OR NEEDS TO BE UPDATED
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	02-26-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	On site inspection. Arco has sold the station/USTs/HW to Tesoro. RUR and close out this Arco site. A21 the new Tesoro site.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	09-04-2018
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Annual monitor certification observed this day. No violations observed.
Eval Division:	Fullerton City Fire Department
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	09-27-2016
Violations Found:	Yes
Eval Type:	Routine done by local agency

ARCO FAC #97 (Continued) **S101588956**

Eval Notes:	Monitor certification performed this date.
Eval Division:	Fullerton City Fire Department
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	10-06-2015
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	No violations observed
Eval Division:	Fullerton City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	10-22-2013
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	FAILURE TO MONITOR THE TANK SYSTEM USING THE METHOD SPECIFIED ON THE PERMIT
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS

Enforcement Action:

Site ID:	93058
Site Name:	ARCO 42004
Site Address:	401 N PLACENTIA AVE
Site City:	FULLERTON
Site Zip:	92831
Enf Action Date:	10-22-2013
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	Orange County Environmental Health
Enf Action Program:	HMRRP
Enf Action Source:	CERS
Site ID:	93058
Site Name:	ARCO 42004
Site Address:	401 N PLACENTIA AVE
Site City:	FULLERTON
Site Zip:	92831
Enf Action Date:	10-22-2013
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	Orange County Environmental Health
Enf Action Program:	UST
Enf Action Source:	CERS

Coordinates:

Site ID:	93058
Facility Name:	ARCO 42004
Env Int Type Code:	HWG
Program ID:	10402786

ARCO FAC #97 (Continued) **S101588956**

Coord Name:	Not reported
Ref Point Type Desc:	Center of a facility or station.
Latitude:	33.874340
Longitude:	-117.879310

Affiliation:

Affiliation Type Desc:	CUPA District
Entity Name:	Orange County Env Health
Entity Title:	Not reported
Affiliation Address:	1241 East Dyer RoadSuite 120
Affiliation City:	Santa Ana
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92705-5611
Affiliation Phone:	(714) 433-6000

Affiliation Type Desc:	UST Tank Operator
Entity Name:	AW CONVENIENCE, INC. (ARA WANSIKEHIAN)
Entity Title:	Not reported
Affiliation Address:	401 N PLACENTIA AVE
Affiliation City:	FULLERTON
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92831
Affiliation Phone:	(714) 914-4664

Affiliation Type Desc:	UST Tank Owner
Entity Name:	TREASURE FRANCHISE COMPANY LLC
Entity Title:	Not reported
Affiliation Address:	RETAIL ENVIRONMENTAL: 19100 RIDGEWOOD PKWY, MS: TX1-022
Affiliation City:	SAN ANTONIO
Affiliation State:	TX
Affiliation Country:	United States
Affiliation Zip:	78259
Affiliation Phone:	(210) 626-6153

Affiliation Type Desc:	Operator
Entity Name:	ARA WANSIKEHIAN
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(714) 914-4664

Affiliation Type Desc:	UST Permit Applicant
Entity Name:	TERESA A. MILES
Entity Title:	ENVIRONMENTAL COMPLIANCE SUPERVISOR
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(562) 495-6850

Affiliation Type Desc:	Document Preparer

ARCO FAC #97 (Continued) **S101588956**

Entity Name:	BELSHIRE ENVIRONMENTAL SERVICES, INC
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Environmental Contact
Entity Name:	BURKE ALBELDA
Entity Title:	Not reported
Affiliation Address:	400 OCEANGATE BLVD., SUITE 600
Affiliation City:	LONG BEACH
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	90802
Affiliation Phone:	Not reported

Affiliation Type Desc:	Legal Owner
Entity Name:	TREASURE FRANCHISE COMPANY LLC
Entity Title:	Not reported
Affiliation Address:	RETAIL ENVIRONMENTAL: 19100 RIDGEWOOD PKWY, MS: TX1-022
Affiliation City:	SAN ANTONIO
Affiliation State:	TX
Affiliation Country:	United States
Affiliation Zip:	78259
Affiliation Phone:	(210) 626-6153

Affiliation Type Desc:	Property Owner
Entity Name:	TREASURE FRANCHISE COMPANY LLC
Entity Title:	Not reported
Affiliation Address:	RETAIL ENVIRONMENTAL: 19100 RIDGEWOOD PKWY, MS: TX1-022
Affiliation City:	SAN ANTONIO
Affiliation State:	TX
Affiliation Country:	United States
Affiliation Zip:	78259
Affiliation Phone:	(210) 626-6153

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	19100 RIDGEWOOD PKWY, MS: TX1-022
Affiliation City:	SAN ANTONIO
Affiliation State:	TX
Affiliation Country:	Not reported
Affiliation Zip:	78259
Affiliation Phone:	Not reported

Affiliation Type Desc:	Identification Signer
Entity Name:	TERESA A. MILES
Entity Title:	ENVIRONMENTAL COMPLIANCE SUPERVISOR
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported

ARCO FAC #97 (Continued) **S101588956**

Affiliation Phone: Not reported

Affiliation Type Desc: Parent Corporation
Entity Name: Tesoro Refining and Marketing Company LLC
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: UST Property Owner Name
Entity Name: TREASURE FRANCHISE COMPANY LLC
Entity Title: Not reported
Affiliation Address: RETAIL ENVIRONMENTAL: 19100 RIDGEWOOD PKWY, MS: TX1-022
Affiliation City: SAN ANTONIO
Affiliation State: TX
Affiliation Country: United States
Affiliation Zip: 78259
Affiliation Phone: (210) 626-6153

CA FID UST:
Facility ID: 30000593
Regulated By: UTNKA
Regulated ID: Not reported
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 7149939111
Mail To: Not reported
Mailing Address: 17315 STUDEBAKER RD
Mailing Address 2: Not reported
Mailing City,St,Zip: FULLERTON 92631
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Active

CERS TANKS:
Site ID: 93058
CERS ID: 10402786
Site Name: ARCO 42004
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 93058
Site Name: ARCO 42004
Violation Date: 09-27-2016
Citation: 23 CCR 16 2636(f)(2) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2636(f)(2)
Violation Description: Failure of the line leak detector (LLD) monitoring pressurized piping to meet one or more of the following requirements:Monitor at least hourly.Be capable of detecting a release of 3.0 gallons per hour at 10

ARCO FAC #97 (Continued) **S101588956**

	p.s.i.g. Restrict or shut off the flow of product through the piping when a leak is detected.
Violation Notes:	Returned to compliance on 09/28/2016. 91 product UST PLLD failed testing. After repairs, it passed retesting.
Violation Division:	Fullerton City Fire Department
Violation Program:	UST
Violation Source:	CERS
Site ID:	93058
Site Name:	ARCO 42004
Violation Date:	02-28-2017
Citation:	22 CCR 23 66273.34 - California Code of Regulations, Title 22, Chapter 23, Section(s) 66273.34
Violation Description:	Failure to label or mark each individual or container or the designated area of universal waste as required. 1) Waste batteries shall be marked with "Universal Waste-Battery(ies)?. 2) Mercury containing equipment shall be marked with "Universal Waste -Mercury-Containing Equipment?. 3) Lamps shall be marked with ?Universal Waste-Lamp(s)?. 4)Each electronic devices or the container or the designated area shall be marked with ?Universal Waste-Electronic Device(s)?. 5) Each CRTs or the container or the designated area shall be marked with "Universal Waste-CRT(s)?. 6) CRT glass or the designated area shall be marked with ?Universal Waste-CRT glass?.
Violation Notes:	Returned to compliance on 03/03/2017. -Universal waste in not stored in a closed container with the words universal waste, accumulation start date, and contents composition. -Properly store and label universal waste light bulbs immediately
Violation Division:	Orange County Environmental Health
Violation Program:	HW
Violation Source:	CERS
Site ID:	93058
Site Name:	ARCO 42004
Violation Date:	10-22-2013
Citation:	HSC 6.7 25299 - California Health and Safety Code, Chapter 6.7, Section(s) 25299
Violation Description:	Failure to comply with one or more of the operating permit conditions.
Violation Notes:	Not reported
Violation Division:	Orange County Environmental Health
Violation Program:	UST
Violation Source:	CERS
Site ID:	93058
Site Name:	ARCO 42004
Violation Date:	10-22-2013
Citation:	HSC 6.95 25504(a) - California Health and Safety Code, Chapter 6.95, Section(s) 25504(a)
Violation Description:	Failure to complete and/or submit hazardous material inventory forms for all reportable hazardous materials on site.
Violation Notes:	Not reported
Violation Division:	Orange County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	93058
Site Name:	ARCO 42004

ARCO FAC #97 (Continued) **S101588956**

Violation Date:	09-27-2016
Citation:	23 CCR 16 2665 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2665
Violation Description:	Failure of the overfill prevention system to meet one of the following requirements: Alert the transfer operator when the tank is 90 percent full by restricting the flow into the tank or triggering an audible and visual alarm; or Restrict delivery of flow to the tank at least 30 minutes before the tank overfills, provided the restriction occurs when the tank is filled to no more than 95 percent of capacity; and activate an audible alarm at least five minutes before the tank overfills; or Provide positive shut-off of flow to the tank when the tank is filled to no more than 95 percent of capacity; or Provide positive shut-off of flow to the tank so that none of the fittings located on the top of the tank are exposed to product due to overfilling.
Violation Notes:	Returned to compliance on 09/27/2016. Audio annunciator for overfill alarm failed to function. Repaired at time of inspection.
Violation Division:	Fullerton City Fire Department
Violation Program:	UST
Violation Source:	CERS

Evaluation:

Eval General Type:	Other/Unknown
Eval Date:	02-19-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Rosie Rangel of Tesoro Refining and Marketing Co LLC indicated that Arco sold this facility to Tesoro in July of 2013. Email sent to the inspector.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	09-04-2018
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	No violations observed.
Eval Division:	Fullerton City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	10-06-2015
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Monitor certification performed this date. No violations observed
Eval Division:	Fullerton City Fire Department
Eval Program:	UST
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	02-28-2017
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	INSPECTOR COMMENTS On site for a routine hazardous waste inspection. Consent to inspect and take any necessary photos was given by Frank

ARCO FAC #97 (Continued) **S101588956**

Perez, cashier. Walked throughout the facility. Observed hazardous waste storage areas. Containers were closed and properly labeled. Manifest were not available and reviewed, owner only has access to the manifest and he was not on-site. Employees are reported to be trained. Emergency plan was posted behind front counter The trash cans were observed, universal waste lamps were found in the dumpster, facility was informed that waste lamps must be hauled away as universal waste.

Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 03-03-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: INSPECTOR COMMENTS On-site to conduct follow-up inspection, met with Joseph, manager. Manifest were available and reviewed. Universal waste bulbs were taken by the company that changes the bulbs, universal waste management was discussed. Violation I135 has been corrected. No outstanding violations at this time.
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-19-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: No violations observed.
Eval Division: Fullerton City Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-19-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: No violations observed.
Eval Division: Fullerton City Fire Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-27-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: No violations observed.
Eval Division: Fullerton City Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 09-28-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Reinspection to witness retest of 91 PLLD.
Eval Division: Fullerton City Fire Department

ARCO FAC #97 (Continued) **S101588956**

Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	10-22-2013
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	CHEMICAL INVENTORY IS INCOMPLETE OR NEEDS TO BE UPDATED
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	02-26-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	On site inspection. Arco has sold the station/USTs/HW to Tesoro. RUR and close out this Arco site. A21 the new Tesoro site.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	09-04-2018
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Annual monitor certification observed this day. No violations observed.
Eval Division:	Fullerton City Fire Department
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	09-27-2016
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Monitor certification performed this date.
Eval Division:	Fullerton City Fire Department
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	10-06-2015
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	No violations observed
Eval Division:	Fullerton City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	10-22-2013
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	FAILURE TO MONITOR THE TANK SYSTEM USING THE METHOD SPECIFIED ON THE PERMIT
Eval Division:	Orange County Environmental Health

ARCO FAC #97 (Continued) **S101588956**

Eval Program:	UST
Eval Source:	CERS

Enforcement Action:

Site ID:	93058
Site Name:	ARCO 42004
Site Address:	401 N PLACENTIA AVE
Site City:	FULLERTON
Site Zip:	92831
Enf Action Date:	10-22-2013
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	Orange County Environmental Health
Enf Action Program:	HMRRP
Enf Action Source:	CERS

Site ID:	93058
Site Name:	ARCO 42004
Site Address:	401 N PLACENTIA AVE
Site City:	FULLERTON
Site Zip:	92831
Enf Action Date:	10-22-2013
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	Orange County Environmental Health
Enf Action Program:	UST
Enf Action Source:	CERS

Coordinates:

Site ID:	93058
Facility Name:	ARCO 42004
Env Int Type Code:	HWG
Program ID:	10402786
Coord Name:	Not reported
Ref Point Type Desc:	Center of a facility or station.
Latitude:	33.874340
Longitude:	-117.879310

Affiliation:

Affiliation Type Desc:	CUPA District
Entity Name:	Orange County Env Health
Entity Title:	Not reported
Affiliation Address:	1241 East Dyer RoadSuite 120
Affiliation City:	Santa Ana
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92705-5611
Affiliation Phone:	(714) 433-6000

Affiliation Type Desc:	UST Tank Operator
Entity Name:	AW CONVENIENCE, INC. (ARA WANSIKEHIAN)
Entity Title:	Not reported
Affiliation Address:	401 N PLACENTIA AVE
Affiliation City:	FULLERTON

ARCO FAC #97 (Continued) **S101588956**

Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92831
Affiliation Phone:	(714) 914-4664
Affiliation Type Desc:	UST Tank Owner
Entity Name:	TREASURE FRANCHISE COMPANY LLC
Entity Title:	Not reported
Affiliation Address:	RETAIL ENVIRONMENTAL: 19100 RIDGEWOOD PKWY, MS: TX1-022
Affiliation City:	SAN ANTONIO
Affiliation State:	TX
Affiliation Country:	United States
Affiliation Zip:	78259
Affiliation Phone:	(210) 626-6153
Affiliation Type Desc:	Operator
Entity Name:	ARA WANSIKEHIAN
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(714) 914-4664
Affiliation Type Desc:	UST Permit Applicant
Entity Name:	TERESA A. MILES
Entity Title:	ENVIRONMENTAL COMPLIANCE SUPERVISOR
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(562) 495-6850
Affiliation Type Desc:	Document Preparer
Entity Name:	BELSHIRE ENVIRONMENTAL SERVICES, INC
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Environmental Contact
Entity Name:	BURKE ALBELDA
Entity Title:	Not reported
Affiliation Address:	400 OCEANGATE BLVD., SUITE 600
Affiliation City:	LONG BEACH
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	90802
Affiliation Phone:	Not reported
Affiliation Type Desc:	Legal Owner
Entity Name:	TREASURE FRANCHISE COMPANY LLC

ARCO FAC #97 (Continued) **S101588956**

Entity Title:	Not reported
Affiliation Address:	RETAIL ENVIRONMENTAL: 19100 RIDGEWOOD PKWY, MS: TX1-022
Affiliation City:	SAN ANTONIO
Affiliation State:	TX
Affiliation Country:	United States
Affiliation Zip:	78259
Affiliation Phone:	(210) 626-6153

Affiliation Type Desc:	Property Owner
Entity Name:	TREASURE FRANCHISE COMPANY LLC
Entity Title:	Not reported
Affiliation Address:	RETAIL ENVIRONMENTAL: 19100 RIDGEWOOD PKWY, MS: TX1-022
Affiliation City:	SAN ANTONIO
Affiliation State:	TX
Affiliation Country:	United States
Affiliation Zip:	78259
Affiliation Phone:	(210) 626-6153

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	19100 RIDGEWOOD PKWY, MS: TX1-022
Affiliation City:	SAN ANTONIO
Affiliation State:	TX
Affiliation Country:	Not reported
Affiliation Zip:	78259
Affiliation Phone:	Not reported

Affiliation Type Desc:	Identification Signer
Entity Name:	TERESA A. MILES
Entity Title:	ENVIRONMENTAL COMPLIANCE SUPERVISOR
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Parent Corporation
Entity Name:	Tesoro Refining and Marketing Company LLC
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	UST Property Owner Name
Entity Name:	TREASURE FRANCHISE COMPANY LLC
Entity Title:	Not reported
Affiliation Address:	RETAIL ENVIRONMENTAL: 19100 RIDGEWOOD PKWY, MS: TX1-022
Affiliation City:	SAN ANTONIO
Affiliation State:	TX
Affiliation Country:	United States
Affiliation Zip:	78259
Affiliation Phone:	(210) 626-6153

O100 SSE 1/8-1/4 0.216 mi. 1142 ft. | **ARCO #0097**
401 PLACENTIA AVE
FULLERTON, CA 92631

Site 4 of 15 in cluster O

CA LUST **S101299590**
CA HIST CORTESE **N/A**

Relative: Lower

Actual: 230 ft.

LUST REG 8:

Region:	8
County:	Orange
Regional Board:	Santa Ana Region
Facility Status:	Case Closed
Case Number:	083000044T
Local Case Num:	Not reported
Case Type:	Soil only
Substance:	Gasoline
Qty Leaked:	Not reported
Abate Method:	EDETIT
Cross Street:	CHAPMAN
Enf Type:	Not reported
Funding:	State Funds
How Discovered:	Tank Test
How Stopped:	Not reported
Leak Cause:	UNK
Leak Source:	Tank
Global ID:	T0605900036
How Stopped Date:	12/3/1986
Enter Date:	6/10/1987
Date Confirmation of Leak Began:	Not reported
Date Preliminary Assessment Began:	5/2/1990
Discover Date:	Not reported
Enforcement Date:	Not reported
Close Date:	7/11/1996
Date Prelim Assessment Workplan Submitted:	Not reported
Date Pollution Characterization Began:	Not reported
Date Remediation Plan Submitted:	Not reported
Date Remedial Action Underway:	1/15/1995
Date Post Remedial Action Monitoring:	Not reported
Enter Date:	6/10/1987
GW Qualifies:	Not reported
Soil Qualifies:	Not reported
Operator:	Not reported
Facility Contact:	Not reported
Interim:	Yes
Oversite Program:	LUST
Latitude:	33.8739758
Longitude:	-117.8791462
MTBE Date:	Not reported
Max MTBE GW:	Not reported
MTBE Concentration:	0
Max MTBE Soil:	Not reported
MTBE Fuel:	1
MTBE Tested:	Site NOT Tested for MTBE.Includes Unknown and Not Analyzed.
MTBE Class:	*
Staff:	VJJ
Staff Initials:	SRL
Lead Agency:	Regional Board
Local Agency:	30013
Hydr Basin #:	COASTAL PLAIN OF ORA
Beneficial:	Not reported

ARCO #0097 (Continued) **S101299590**

Priority:	Not reported
Cleanup Fund Id:	Not reported
Work Suspended:	Not reported
Summary:	7/11/96 - SITE CLOSED 1/26/99 - Case re-opened due to high dispenser island contamination

Region:	8
County:	Orange
Regional Board:	Santa Ana Region
Facility Status:	Post remedial action monitoring
Case Number:	083003528T
Local Case Num:	Not reported
Case Type:	O, S
Substance:	Gasoline
Qty Leaked:	Not reported
Abate Method:	Not reported
Cross Street:	CHAPMAN
Enf Type:	FREV
Funding:	Not reported
How Discovered:	OM
How Stopped:	Not reported
Leak Cause:	UNK
Leak Source:	UNK
Global ID:	T0605902316
How Stopped Date:	7/17/1998
Enter Date:	9/1/1999
Date Confirmation of Leak Began:	7/17/1999
Date Preliminary Assessment Began:	Not reported
Discover Date:	7/17/1998
Enforcement Date:	Not reported
Close Date:	Not reported
Date Prelim Assessment Workplan Submitted:	Not reported
Date Pollution Characterization Began:	8/29/2003
Date Remediation Plan Submitted:	Not reported
Date Remedial Action Underway:	Not reported
Date Post Remedial Action Monitoring:	1/31/2005
Enter Date:	9/1/1999
GW Qualifies:	=
Soil Qualifies:	=
Operator:	Not reported
Facility Contact:	Not reported
Interim:	Not reported
Oversite Program:	LUST
Latitude:	33.8739758
Longitude:	-117.8791462
MTBE Date:	5/16/2002
Max MTBE GW:	12
MTBE Concentration:	0
Max MTBE Soil:	.19
MTBE Fuel:	1
MTBE Tested:	MTBE Detected. Site tested for MTBE & MTBE detected
MTBE Class:	*
Staff:	VJJ
Staff Initials:	SRL
Lead Agency:	Regional Board
Local Agency:	30013
Hydr Basin #:	COASTAL PLAIN OF ORA

ARCO #0097 (Continued) **S101299590**

Beneficial: Not reported
Priority: Not reported
Cleanup Fund Id: Not reported
Work Suspended: No
Summary: Not reported

HIST CORTESE:
Region: CORTESE
Facility County Code: 30
Reg By: LTNKA
Reg Id: 083000044T

O101 **PETROLEUM MRKTG INC** **CA HIST UST** **U001576984**
SSE **401 N PLACENTIA** **N/A**
1/8-1/4 **FULLERTON, CA 92631**
0.216 mi.
1142 ft. **Site 5 of 15 in cluster O**

Relative:
Lower

Actual:
230 ft.

HIST UST:
File Number: 0002E4F1
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002E4F1.pdf
Region: STATE
Facility ID: 00000026487
Facility Type: Gas Station
Other Type: Not reported
Contact Name: Not reported
Telephone: 0000000000
Owner Name: ARCO PETROLEUM PRODUCTS CO.
Owner Address: 515 SOUTH FLOWER STREET
Owner City,St,Zip: LOS ANGELES, CA 90071
Total Tanks: 0004

Tank Num: 001
Container Num: 0000000001
Year Installed: 1983
Tank Capacity: 00008000
Tank Used for: PRODUCT
Type of Fuel: 06
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor, 10

Tank Num: 002
Container Num: 0000000002
Year Installed: 1983
Tank Capacity: 00006000
Tank Used for: PRODUCT
Type of Fuel: 06
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor, 10

Tank Num: 003
Container Num: 0000000003
Year Installed: 1983
Tank Capacity: 00006000
Tank Used for: PRODUCT
Type of Fuel: 06
Container Construction Thickness: Not reported

PETROLEUM MRKTG INC (Continued) **U001576984**

Leak Detection: Stock Inventor, 10

Tank Num: 004
Container Num: 0000000004
Year Installed: 1983
Tank Capacity: 00006000
Tank Used for: PRODUCT
Type of Fuel: 06
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor, 10

Click here for Geo Tracker PDF:

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102 NNW 1/8-1/4 0.225 mi. 1189 ft. **DORISLEE RAFFERTY 2252 VISTA DEL SOL FULLERTON, CA 92831** **RCRA NonGen / NLR** **1024764538 CAC002984406**

Relative: Higher
Actual: 347 ft.

RCRA NonGen / NLR:
Date form received by agency: 10/11/2018
Facility name: DORISLEE RAFFERTY
Facility address: 2252 VISTA DEL SOL
FULLERTON, CA 92831
EPA ID: CAC002984406
Contact: DORISLEE RAFFERTY
Contact address: 2252 VISTA DEL SOL
FULLERTON, CA 92831
Contact country: Not reported
Contact telephone: 714-290-5763
Contact email: AMARTINO@VIKINGENVIRO.COM
EPA Region: 09
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: DORISLEE RAFFERTY
Owner/operator address: 2252 VISTA DEL SOL
FULLERTON, CA 92831
Owner/operator country: Not reported
Owner/operator telephone: 714-290-5763
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Other
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: DORISLEE RAFFERTY
Owner/operator address: 2252 VISTA DEL SOL
FULLERTON, CA 92831
Owner/operator country: Not reported
Owner/operator telephone: 714-290-5763
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported

DORISLEE RAFFERTY (Continued) **1024764538**

Legal status: Other
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

P103 **MOBIL SS #18-FHE** **CA SWEEPS UST** **U001576981**
SSW **506 N STATE COLLEGE BLVD** **CA HIST UST** **N/A**
1/8-1/4 **FULLERTON, CA 92631**
0.225 mi.
1189 ft. **Site 1 of 6 in cluster P**

Relative:
Lower

Actual:
219 ft.

SWEEPS UST:
Status: Active
Comp Number: 4677
Number: 1
Board Of Equalization: 44-000400
Referral Date: 04-22-93
Action Date: 04-11-94
Created Date: 12-31-88
Owner Tank Id: 135
SWRCB Tank Id: 30-013-004677-000001
Tank Status: A
Capacity: Not reported
Active Date: Not reported
Tank Use: UNKNOWN
STG: P
Content: Not reported
Number Of Tanks: 5

Status: Active
Comp Number: 4677
Number: 1
Board Of Equalization: 44-000400
Referral Date: 04-22-93
Action Date: 04-11-94
Created Date: 12-31-88
Owner Tank Id: 135
SWRCB Tank Id: 30-013-004677-000002
Tank Status: A

MOBIL SS #18-FHE (Continued) **U001576981**

Capacity:	550
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	P
Content:	JET FUEL
Number Of Tanks:	Not reported

Status:	Active
Comp Number:	4677
Number:	1
Board Of Equalization:	44-000400
Referral Date:	04-22-93
Action Date:	04-11-94
Created Date:	12-31-88
Owner Tank Id:	135
SWRCB Tank Id:	30-013-004677-000004
Tank Status:	A
Capacity:	12000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	W
Content:	REG UNLEADED
Number Of Tanks:	Not reported

Status:	Active
Comp Number:	4677
Number:	1
Board Of Equalization:	44-000400
Referral Date:	04-22-93
Action Date:	04-11-94
Created Date:	12-31-88
Owner Tank Id:	135
SWRCB Tank Id:	30-013-004677-000005
Tank Status:	A
Capacity:	6000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	W
Content:	DIESEL
Number Of Tanks:	Not reported

Status:	Active
Comp Number:	4677
Number:	1
Board Of Equalization:	44-000400
Referral Date:	04-22-93
Action Date:	04-11-94
Created Date:	12-31-88
Owner Tank Id:	135
SWRCB Tank Id:	30-013-004677-000006
Tank Status:	A
Capacity:	10000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	W
Content:	LEADED
Number Of Tanks:	Not reported

MOBIL SS #18-FHE (Continued) **U001576981**

HIST UST:

File Number:	0002EBBE
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002EBBE.pdf
Region:	STATE
Facility ID:	00000039419
Facility Type:	Gas Station
Other Type:	Not reported
Contact Name:	Not reported
Telephone:	7147381418
Owner Name:	MOBIL OIL CORPORATION
Owner Address:	612 S. FLOWER STREET
Owner City,St,Zip:	LOS ANGELES, CA 90017
Total Tanks:	0004
Tank Num:	001
Container Num:	1
Year Installed:	Not reported
Tank Capacity:	00020000
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	Not reported
Leak Detection:	Not reported
Tank Num:	002
Container Num:	2
Year Installed:	Not reported
Tank Capacity:	00010000
Tank Used for:	PRODUCT
Type of Fuel:	REGULAR
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor
Tank Num:	003
Container Num:	3
Year Installed:	Not reported
Tank Capacity:	00008000
Tank Used for:	PRODUCT
Type of Fuel:	PREMIUM
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor
Tank Num:	004
Container Num:	4
Year Installed:	Not reported
Tank Capacity:	00000280
Tank Used for:	WASTE
Type of Fuel:	WASTE OIL
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor

Click here for Geo Tracker PDF:

P104
SSW
1/8-1/4
0.225 mi.
1189 ft.

MOBIL BLUE, INC.
506 N STATE COLLEGE BLVD
FULLERTON, CA 92831

Site 2 of 6 in cluster P

CA UST **U003984187**
N/A

Relative:
Lower

Actual:
219 ft.

UST:

Facility ID:	Not reported
Permitting Agency:	Orange County Environmental Health
Latitude:	33.87452
Longitude:	-117.88922
Facility ID:	4677
Permitting Agency:	FULLERTON, CITY OF
Latitude:	33.8759905
Longitude:	-117.8878415

P105
SSW
1/8-1/4
0.225 mi.
1189 ft.

MOBIL #18-FHE
506 N STATE COLLEGE BLVD
FULLERTON, CA 92631

Site 3 of 6 in cluster P

CA LUST **S101589517**
CA CERS HAZ WASTE **N/A**
CA CERS TANKS
CA FID UST
CA CERS

Relative:
Lower

Actual:
219 ft.

LUST:

Lead Agency:	SANTA ANA RWQCB (REGION 8)
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0605900668
Global Id:	T0605900668
Latitude:	33.8743107
Longitude:	-117.8894335
Status:	Completed - Case Closed
Status Date:	03/06/2012
Case Worker:	RS
RB Case Number:	083000847T
Local Agency:	FULLERTON, CITY OF
File Location:	Regional Board
Local Case Number:	Not reported
Potential Media Affect:	Aquifer used for drinking water supply
Potential Contaminants of Concern:	Gasoline
Site History:	Case closure report received and in review.

LUST:

Global Id:	T0605900668
Contact Type:	Regional Board Caseworker
Contact Name:	ROSE SCOTT
Organization Name:	SANTA ANA RWQCB (REGION 8)
Address:	3737 MAIN STREET, SUITE 500
City:	RIVERSIDE
Email:	rose.scott@waterboards.ca.gov
Phone Number:	9513206375
Global Id:	T0605900668
Contact Type:	Local Agency Caseworker
Contact Name:	STEPHEN LONG
Organization Name:	FULLERTON, CITY OF
Address:	312 E. COMMONWEALTH AVE.
City:	FULLERTON
Email:	stevel@fullertonfire.org
Phone Number:	7147383160

MOBIL #18-FHE (Continued) **S101589517**

LUST:

Global Id:	T0605900668
Action Type:	RESPONSE
Date:	01/30/2008
Action:	Monitoring Report - Quarterly
Global Id:	T0605900668
Action Type:	RESPONSE
Date:	10/30/2007
Action:	Monitoring Report - Quarterly
Global Id:	T0605900668
Action Type:	ENFORCEMENT
Date:	02/05/2004
Action:	Site Visit / Inspection / Sampling
Global Id:	T0605900668
Action Type:	ENFORCEMENT
Date:	01/27/2005
Action:	* No Action
Global Id:	T0605900668
Action Type:	ENFORCEMENT
Date:	06/22/2004
Action:	Staff Letter
Global Id:	T0605900668
Action Type:	Other
Date:	03/17/1994
Action:	Leak Reported
Global Id:	T0605900668
Action Type:	RESPONSE
Date:	01/30/2007
Action:	Monitoring Report - Quarterly
Global Id:	T0605900668
Action Type:	RESPONSE
Date:	01/30/2007
Action:	Remedial Progress Report
Global Id:	T0605900668
Action Type:	RESPONSE
Date:	10/30/2006
Action:	Monitoring Report - Quarterly
Global Id:	T0605900668
Action Type:	RESPONSE
Date:	07/30/2006
Action:	Monitoring Report - Quarterly
Global Id:	T0605900668
Action Type:	ENFORCEMENT
Date:	11/19/2008
Action:	Technical Correspondence / Assistance / Other
Global Id:	T0605900668

MOBIL #18-FHE (Continued) **S101589517**

Action Type: ENFORCEMENT
Date: 01/08/2009
Action: Technical Correspondence / Assistance / Other

Global Id: T0605900668
Action Type: ENFORCEMENT
Date: 04/06/2009
Action: Staff Letter

Global Id: T0605900668
Action Type: ENFORCEMENT
Date: 07/29/2009
Action: Staff Letter

Global Id: T0605900668
Action Type: RESPONSE
Date: 07/30/2007
Action: Monitoring Report - Quarterly

Global Id: T0605900668
Action Type: ENFORCEMENT
Date: 11/23/2004
Action: * Verbal Communication

Global Id: T0605900668
Action Type: ENFORCEMENT
Date: 02/22/2005
Action: Staff Letter

Global Id: T0605900668
Action Type: ENFORCEMENT
Date: 11/03/2005
Action: * No Action

Global Id: T0605900668
Action Type: ENFORCEMENT
Date: 10/19/2006
Action: File review

Global Id: T0605900668
Action Type: ENFORCEMENT
Date: 12/10/2009
Action: Technical Correspondence / Assistance / Other

Global Id: T0605900668
Action Type: ENFORCEMENT
Date: 10/19/2010
Action: Technical Correspondence / Assistance / Other

Global Id: T0605900668
Action Type: ENFORCEMENT
Date: 10/13/2010
Action: Meeting

Global Id: T0605900668
Action Type: ENFORCEMENT
Date: 11/29/2011

MOBIL #18-FHE (Continued) **S101589517**

Action: Staff Letter

Global Id: T0605900668
Action Type: ENFORCEMENT
Date: 11/29/2011
Action: Notification - Preclosure

Global Id: T0605900668
Action Type: ENFORCEMENT
Date: 03/06/2012
Action: Closure/No Further Action Letter

Global Id: T0605900668
Action Type: ENFORCEMENT
Date: 02/14/2012
Action: File Review - Closure

Global Id: T0605900668
Action Type: ENFORCEMENT
Date: 10/28/2010
Action: Technical Correspondence / Assistance / Other

Global Id: T0605900668
Action Type: RESPONSE
Date: 07/30/2007
Action: Monitoring Report - Quarterly

Global Id: T0605900668
Action Type: ENFORCEMENT
Date: 03/21/2005
Action: Meeting

Global Id: T0605900668
Action Type: ENFORCEMENT
Date: 03/16/2005
Action: * Verbal Communication

Global Id: T0605900668
Action Type: ENFORCEMENT
Date: 06/07/2005
Action: * No Action

Global Id: T0605900668
Action Type: ENFORCEMENT
Date: 01/12/2005
Action: Staff Letter

Global Id: T0605900668
Action Type: RESPONSE
Date: 10/30/2009
Action: Monitoring Report - Quarterly

Global Id: T0605900668
Action Type: RESPONSE
Date: 04/30/2010
Action: Monitoring Report - Quarterly

MOBIL #18-FHE (Continued) **S101589517**

Global Id: T0605900668
Action Type: ENFORCEMENT
Date: 03/03/2003
Action: Site Visit / Inspection / Sampling

Global Id: T0605900668
Action Type: ENFORCEMENT
Date: 11/13/2002
Action: Staff Letter

Global Id: T0605900668
Action Type: ENFORCEMENT
Date: 04/09/2003
Action: Site Visit / Inspection / Sampling

Global Id: T0605900668
Action Type: REMEDIATION
Date: 03/30/1994
Action: Excavation

Global Id: T0605900668
Action Type: RESPONSE
Date: 01/30/2003
Action: Monitoring Report - Quarterly

Global Id: T0605900668
Action Type: RESPONSE
Date: 01/30/2003
Action: Monitoring Report - Quarterly

Global Id: T0605900668
Action Type: RESPONSE
Date: 04/30/2003
Action: Monitoring Report - Quarterly

Global Id: T0605900668
Action Type: RESPONSE
Date: 01/28/2005
Action: CAP/RAP - Feasibility Study Report

Global Id: T0605900668
Action Type: RESPONSE
Date: 07/30/2002
Action: Monitoring Report - Quarterly

Global Id: T0605900668
Action Type: RESPONSE
Date: 10/30/2002
Action: Monitoring Report - Quarterly

Global Id: T0605900668
Action Type: RESPONSE
Date: 07/30/2002
Action: Remedial Progress Report

Global Id: T0605900668
Action Type: RESPONSE

MOBIL #18-FHE (Continued) **S101589517**

Date: 10/30/2002
Action: Remedial Progress Report

Global Id: T0605900668
Action Type: RESPONSE
Date: 04/30/2003
Action: Remedial Progress Report

Global Id: T0605900668
Action Type: RESPONSE
Date: 01/30/2003
Action: Remedial Progress Report

Global Id: T0605900668
Action Type: ENFORCEMENT
Date: 11/17/2006
Action: Site Visit / Inspection / Sampling

Global Id: T0605900668
Action Type: ENFORCEMENT
Date: 02/09/2007
Action: Site Visit / Inspection / Sampling

Global Id: T0605900668
Action Type: Other
Date: 03/17/1994
Action: Leak Discovery

Global Id: T0605900668
Action Type: RESPONSE
Date: 04/25/2003
Action: Other Report / Document

Global Id: T0605900668
Action Type: RESPONSE
Date: 07/30/2005
Action: Monitoring Report - Quarterly

Global Id: T0605900668
Action Type: RESPONSE
Date: 10/05/2010
Action: Request for Closure

Global Id: T0605900668
Action Type: ENFORCEMENT
Date: 08/02/2005
Action: * No Action

Global Id: T0605900668
Action Type: ENFORCEMENT
Date: 04/11/2008
Action: Technical Correspondence / Assistance / Other

Global Id: T0605900668
Action Type: RESPONSE
Date: 03/17/2005
Action: Other Report / Document

MOBIL #18-FHE (Continued) **S101589517**

Global Id: T0605900668
Action Type: RESPONSE
Date: 06/30/2005
Action: Monitoring Report - Quarterly

Global Id: T0605900668
Action Type: RESPONSE
Date: 07/30/2007
Action: Remedial Progress Report

Global Id: T0605900668
Action Type: RESPONSE
Date: 01/30/2011
Action: Request for Closure

Global Id: T0605900668
Action Type: RESPONSE
Date: 10/30/2004
Action: Monitoring Report - Quarterly

Global Id: T0605900668
Action Type: RESPONSE
Date: 01/30/2005
Action: Monitoring Report - Quarterly

Global Id: T0605900668
Action Type: RESPONSE
Date: 04/30/2005
Action: Monitoring Report - Quarterly

Global Id: T0605900668
Action Type: RESPONSE
Date: 10/31/2005
Action: Monitoring Report - Quarterly

Global Id: T0605900668
Action Type: RESPONSE
Date: 03/30/2008
Action: Other Workplan

Global Id: T0605900668
Action Type: RESPONSE
Date: 01/27/2005
Action: Corrective Action Plan / Remedial Action Plan

Global Id: T0605900668
Action Type: RESPONSE
Date: 08/01/2005
Action: Corrective Action Plan / Remedial Action Plan

Global Id: T0605900668
Action Type: RESPONSE
Date: 04/30/2011
Action: Monitoring Report - Quarterly

Global Id: T0605900668
Action Type: RESPONSE

MOBIL #18-FHE (Continued) **S101589517**

Date: 02/14/2012
Action: Well Destruction Report

Global Id: T0605900668
Action Type: ENFORCEMENT
Date: 07/02/2002
Action: * No Action

LUST:
Global Id: T0605900668
Status: Completed - Case Closed
Status Date: 03/06/2012

Global Id: T0605900668
Status: Open - Case Begin Date
Status Date: 03/17/1994

Global Id: T0605900668
Status: Open - Remediation
Status Date: 01/27/2005

Global Id: T0605900668
Status: Open - Remediation
Status Date: 03/21/2005

Global Id: T0605900668
Status: Open - Remediation
Status Date: 01/30/2007

Global Id: T0605900668
Status: Open - Remediation
Status Date: 07/07/2007

Global Id: T0605900668
Status: Open - Remediation
Status Date: 07/13/2007

Global Id: T0605900668
Status: Open - Site Assessment
Status Date: 05/13/1994

Global Id: T0605900668
Status: Open - Site Assessment
Status Date: 08/13/2001

Global Id: T0605900668
Status: Open - Site Assessment
Status Date: 03/03/2003

Global Id: T0605900668
Status: Open - Verification Monitoring
Status Date: 10/12/2010

CERS HAZ WASTE:
Site ID: 32061

MOBIL #18-FHE (Continued) **S101589517**

CERS ID: 10453396
CERS Description: Hazardous Waste Generator

Violations:

Site ID: 32061
Site Name: MOBIL BLUE, INC.
Violation Date: 11-19-2018
Citation: 23 CCR 16 2641(j) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2641(j)
Violation Description: Failure of the leak detection equipment to be installed, calibrated, operated, and/or maintained properly.
Violation Notes: WPLLD'S FOR 87, 89, AND 91 IN ALARM DOZENS OF TIMES DATING BACK TO 12/2017 FOR "COMM FAILURE". FACILITY SHALL INVESTIGATE AND IDENTIFY CAUSE AND PERFORM REPAIRS UNDER PERMIT FROM THIS AGENCY.
Violation Division: Fullerton City Fire Department
Violation Program: UST
Violation Source: CERS

Site ID: 32061
Site Name: MOBIL BLUE, INC.
Violation Date: 08-26-2013
Citation: 22 CCR 12 66262.34(d) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(d)
Violation Description: Failure to dispose of hazardous waste within 180 days (or 270 if waste is transported over 200 miles) for the generator who generates less than 1000 kilogram per month, but more than 100 kilograms per month.
Violation Notes: Returned to compliance on 10/23/2013. The facility has (2) 5 gallon pails of "water/fuel" on site that were used for the UST/UDC testing in 8-2012. All other hazardous waste have not been hauled since 2-2013. As a small quantity generator (SQG) all hazardous waste must be hauled every 6 months. Immediately have all your hazardous wastes (waste oil/oil filters/parts washer solvent/radiator fluid and the UST test water) hauled away as hazardous wastes. Maintain all the manifests in order to verify proper disposal. This Agency will conduct a follow up inspection on/before 10-23-13 in order to verify proper disposal.
Violation Division: Orange County Environmental Health
Violation Program: HW
Violation Source: CERS

Site ID: 32061
Site Name: MOBIL BLUE, INC.
Violation Date: 11-30-2016
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit a site map with all required content.
Violation Notes: Returned to compliance on 02/13/2017.
Violation Division: Fullerton City Fire Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 32061
Site Name: MOBIL BLUE, INC.
Violation Date: 11-30-2016
Citation: 23 CCR 16 2641(a) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2641(a)
Violation Description: Failure of leak detection equipment to be located such that equipment

MOBIL #18-FHE (Continued) **S101589517**

is capable of detecting a leak at the earliest possible opportunity.
Violation Notes: Returned to compliance on 11/30/2016. Sensors in the 89 UST sump and the 91 fill sump were not positioned perpendicular to the bottom of the sump. Corrected during inspection.
Violation Division: Fullerton City Fire Department
Violation Program: UST
Violation Source: CERS

Site ID: 32061
Site Name: MOBIL BLUE, INC.
Violation Date: 11-19-2018
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes: FACILITY STORES UST WASTE OIL TANK ON SITE. AT THE TIME OF INSPECTION, VISIBLE AMOUNTS OF PRODUCT WERE STORED INSIDE OF WASTE OIL TANK AND SHALL BE PROPERLY DISPOSED OF OR DISCLOSED ON CHEMICAL INVENTORY.
Violation Division: Fullerton City Fire Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 32061
Site Name: MOBIL BLUE, INC.
Violation Date: 12-02-2015
Citation: HSC 6.11 25404(e)(4) - California Health and Safety Code, Chapter 6.11, Section(s) 25404(e)(4)
Violation Description: Failure to report program data electronically.
Violation Notes: Returned to compliance on 12/09/2015. Current CFO letter had not been uploaded to CERS. For all UST systems.
Violation Division: Fullerton City Fire Department
Violation Program: UST
Violation Source: CERS

Site ID: 32061
Site Name: MOBIL BLUE, INC.
Violation Date: 12-02-2015
Citation: 23 CCR 16 2643(b)(5) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2643(b)(5)
Violation Description: Failure to conduct the 0.2 gallons per hour continuous in tank leak detection test.
Violation Notes: Returned to compliance on 12/02/2015. CSLD test was not performed for month of November. For all UST systems.
Violation Division: Fullerton City Fire Department
Violation Program: UST
Violation Source: CERS

Site ID: 32061
Site Name: MOBIL BLUE, INC.
Violation Date: 11-30-2016
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes: Returned to compliance on 02/13/2017. New oil and waste coolant were

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	present in disclosable quantities but not included in the inventory.
Violation Division:	Fullerton City Fire Department
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	32061
Site Name:	MOBIL BLUE, INC.
Violation Date:	11-30-2016
Citation:	23 CCR 16 2712(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(i)
Violation Description:	Failure to have a UST Monitoring Plan available on site.
Violation Notes:	Returned to compliance on 12/01/2016. No monitoring plan on site (all usts).
Violation Division:	Fullerton City Fire Department
Violation Program:	UST
Violation Source:	CERS

Evaluation:

Eval General Type:	Other/Unknown
Eval Date:	10-07-2013
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Processed A21.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	11-19-2018
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	VIOLATION NOTED. MONITOR CERTIFICATION OBSERVED THIS DAY.
Eval Division:	Fullerton City Fire Department
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	12-03-2013
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	UST No violations
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	10-17-2013
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Received copy of waste oil manifest (9-4-13) to verify waste oil inUST was properly disposed. No outstanding violations.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	11-30-2017

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Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	No violations observed.
Eval Division:	Fullerton City Fire Department
Eval Program:	UST
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	12-02-2015
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Fullerton City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	08-22-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	The old owner is gone. The new owner info is below. Change of ownership date was March 14, 2016. TILITE, INC. 17702 MITCHELL N, STE 201 IRVINE, CA 92615 714 738-1418 MOHSEN GHANEIAN, OWNER CAL000413333
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-26-2013
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	On site to conduct the annual hazardous waste inspection. Permission to inspect was granted and observed by the business owner/Hajizadeh. All hazardous waste were stored in closed/proper containers (waste oil is in a UST). Emergency response plan on site. HW stored in a locked area. Trash and property were reviewed and no evidence of chemical disposal. The business was purchased from Mobil/Exxon by Mike Hajizadeh. The EPA ID # was already in his name and will remain the same. RUR to change the business from EXXon/Mobil to Fullerton University Mobil, Inc. The facility will no longer be a "Certified Used Oil Center". The HW was being stored over 180 days. See violations.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	11-19-2018
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	VIOLATION NOTED.
Eval Division:	Fullerton City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	11-30-2016

MOBIL #18-FHE (Continued) **S101589517**

Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Monitor certification performed this date.
Eval Division:	Fullerton City Fire Department
Eval Program:	UST
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	11-30-2017
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	No violations observed.
Eval Division:	Fullerton City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	05-13-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	CERS review: BA/OW pg - possible change of OW
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	11-30-2016
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Fullerton City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	12-02-2015
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Monitor certification performed this date
Eval Division:	Fullerton City Fire Department
Eval Program:	UST
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	12-03-2013
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Disclosure No violation
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	12-19-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	CERS review

MOBIL #18-FHE (Continued) **S101589517**

Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Coordinates:
Site ID: 32061
Facility Name: MOBIL BLUE, INC.
Env Int Type Code: HWG
Program ID: 10453396
Coord Name: Not reported
Ref Point Type Desc: Center of a facility or station.
Latitude: 33.874520
Longitude: -117.889220

Affiliation:
Affiliation Type Desc: Document Preparer
Entity Name: LANCE YORK
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: UST Tank Owner
Entity Name: MOBIL BLUE, INC.
Entity Title: Not reported
Affiliation Address: 506 N. STATE COLLEGE BLVD.
Affiliation City: FULLERTON
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 92831
Affiliation Phone: (714) 735-1418

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 506 N. STATE COLLEGE BLVD.
Affiliation City: FULLERTON
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92831
Affiliation Phone: Not reported

Affiliation Type Desc: Identification Signer
Entity Name: LANCE YORK
Entity Title: DESIGNATED OPERATOR
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Legal Owner

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Entity Name:	MOBIL BLUE, INC.
Entity Title:	Not reported
Affiliation Address:	506 N. STATE COLLEGE BLVD.
Affiliation City:	FULLERTON
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92831
Affiliation Phone:	(714) 738-1418

Affiliation Type Desc:	Property Owner
Entity Name:	MOBIL BLUE, INC.
Entity Title:	Not reported
Affiliation Address:	506 N. STATE COLLEGE BLVD.
Affiliation City:	FULLERTON
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92831
Affiliation Phone:	(714) 738-1418

Affiliation Type Desc:	UST Tank Operator
Entity Name:	MOBIL BLUE, INC.
Entity Title:	Not reported
Affiliation Address:	506 N. STATE COLLEGE BLVD.
Affiliation City:	FULLERTON
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92831
Affiliation Phone:	(714) 735-1418

Affiliation Type Desc:	CUPA District
Entity Name:	Orange County Env Health
Entity Title:	Not reported
Affiliation Address:	1241 East Dyer RoadSuite 120
Affiliation City:	Santa Ana
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92705-5611
Affiliation Phone:	(714) 433-6000

Affiliation Type Desc:	Environmental Contact
Entity Name:	Lance York
Entity Title:	Not reported
Affiliation Address:	21352 SILVERTREE LN.
Affiliation City:	TRABUCO CANYON
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92679
Affiliation Phone:	Not reported

Affiliation Type Desc:	Operator
Entity Name:	MOBIL BLUE, INC.
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported

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Affiliation Phone: (714) 738-1418

Affiliation Type Desc: Parent Corporation
Entity Name: SERVICE STATION OF THE STARS
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: UST Property Owner Name
Entity Name: MOBIL BLUE, INC.
Entity Title: Not reported
Affiliation Address: 506 N. STATE COLLEGE BLVD.
Affiliation City: FULLERTON
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 92831
Affiliation Phone: (714) 735-1418

CERS TANKS:
Facility Name: MOBIL BLUE, INC.
Site ID: 32061
CERS ID: 10453396
CERS Description: Underground Storage Tank

Violations:
Site ID: 32061
Site Name: MOBIL BLUE, INC.
Violation Date: 11-19-2018
Citation: 23 CCR 16 2641(j) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2641(j)
Violation Description: Failure of the leak detection equipment to be installed, calibrated, operated, and/or maintained properly.
Violation Notes: WPLLD'S FOR 87, 89, AND 91 IN ALARM DOZENS OF TIMES DATING BACK TO 12/2017 FOR "COMM FAILURE". FACILITY SHALL INVESTIGATE AND IDENTIFY CAUSE AND PERFORM REPAIRS UNDER PERMIT FROM THIS AGENCY.
Violation Division: Fullerton City Fire Department
Violation Program: UST
Violation Source: CERS

Site ID: 32061
Site Name: MOBIL BLUE, INC.
Violation Date: 08-26-2013
Citation: 22 CCR 12 66262.34(d) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(d)
Violation Description: Failure to dispose of hazardous waste within 180 days (or 270 if waste is transported over 200 miles) for the generator who generates less than 1000 kilogram per month, but more than 100 kilograms per month.
Violation Notes: Returned to compliance on 10/23/2013. The facility has (2) 5 gallon pails of "water/fuel" on site that were used for the UST/UDC testing in 8-2012. All other hazardous waste have not been hauled since 2-2013. As a small quantity generator (SQG) all hazardous waste must be hauled every 6 months. Immediately have all your hazardous wastes

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(waste oil/oil filters/parts washer solvent/radiator fluid and the UST test water) hauled away as hazardous wastes. Maintain all the manifests in order to verify proper disposal. This Agency will conduct a follow up inspection on/before 10-23-13 in order to verify proper disposal.

Violation Division: Orange County Environmental Health
Violation Program: HW
Violation Source: CERS

Site ID: 32061
Site Name: MOBIL BLUE, INC.
Violation Date: 11-30-2016
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit a site map with all required content.
Violation Notes: Returned to compliance on 02/13/2017.
Violation Division: Fullerton City Fire Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 32061
Site Name: MOBIL BLUE, INC.
Violation Date: 11-30-2016
Citation: 23 CCR 16 2641(a) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2641(a)
Violation Description: Failure of leak detection equipment to be located such that equipment is capable of detecting a leak at the earliest possible opportunity.
Violation Notes: Returned to compliance on 11/30/2016. Sensors in the 89 UST sump and the 91 fill sump were not positioned perpendicular to the bottom of the sump. Corrected during inspection.
Violation Division: Fullerton City Fire Department
Violation Program: UST
Violation Source: CERS

Site ID: 32061
Site Name: MOBIL BLUE, INC.
Violation Date: 11-19-2018
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes: FACILITY STORES UST WASTE OIL TANK ON SITE. AT THE TIME OF INSPECTION, VISIBLE AMOUNTS OF PRODUCT WERE STORED INSIDE OF WASTE OIL TANK AND SHALL BE PROPERLY DISPOSED OF OR DISCLOSED ON CHEMICAL INVENTORY.
Violation Division: Fullerton City Fire Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 32061
Site Name: MOBIL BLUE, INC.
Violation Date: 12-02-2015
Citation: HSC 6.11 25404(e)(4) - California Health and Safety Code, Chapter 6.11, Section(s) 25404(e)(4)
Violation Description: Failure to report program data electronically.
Violation Notes: Returned to compliance on 12/09/2015. Current CFO letter had not been

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uploaded to CERS. For all UST systems.
Violation Division: Fullerton City Fire Department
Violation Program: UST
Violation Source: CERS

Site ID: 32061
Site Name: MOBIL BLUE, INC.
Violation Date: 12-02-2015
Citation: 23 CCR 16 2643(b)(5) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2643(b)(5)
Violation Description: Failure to conduct the 0.2 gallons per hour continuous in tank leak detection test.
Violation Notes: Returned to compliance on 12/02/2015. CSLD test was not performed for month of November. For all UST systems.
Violation Division: Fullerton City Fire Department
Violation Program: UST
Violation Source: CERS

Site ID: 32061
Site Name: MOBIL BLUE, INC.
Violation Date: 11-30-2016
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes: Returned to compliance on 02/13/2017. New oil and waste coolant were present in disclosable quantities but not included in the inventory.
Violation Division: Fullerton City Fire Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 32061
Site Name: MOBIL BLUE, INC.
Violation Date: 11-30-2016
Citation: 23 CCR 16 2712(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(i)
Violation Description: Failure to have a UST Monitoring Plan available on site.
Violation Notes: Returned to compliance on 12/01/2016. No monitoring plan on site (all usts).
Violation Division: Fullerton City Fire Department
Violation Program: UST
Violation Source: CERS

Evaluation:
Eval General Type: Other/Unknown
Eval Date: 10-07-2013
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Processed A21.
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-19-2018
Violations Found: Yes

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Eval Type:	Routine done by local agency
Eval Notes:	VIOLATION NOTED. MONITOR CERTIFICATION OBSERVED THIS DAY.
Eval Division:	Fullerton City Fire Department
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	12-03-2013
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	UST No violations
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	10-17-2013
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Received copy of waste oil manifest (9-4-13) to verify waste oil inUST was properly disposed. No outstanding violations.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	11-30-2017
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	No violations observed.
Eval Division:	Fullerton City Fire Department
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	12-02-2015
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Fullerton City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	08-22-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	The old owner is gone. The new owner info is below. Change of ownership date was March 14, 2016. TILITE, INC. 17702 MITCHELL N, STE 201 IRVINE, CA 92615 714 738-1418 MOHSEN GHANEIAN, OWNER CAL000413333
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-26-2013
Violations Found:	Yes

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Eval Type:	Routine done by local agency
Eval Notes:	On site to conduct the annual hazardous waste inspection. Permission to inspect was granted and observed by the business owner/Hajizadeh. All hazardous waste were stored in closed/proper containers (waste oil is in a UST). Emergency response plan on site. HW stored in a locked area. Trash and property were reviewed and no evidence of chemical disposal. The business was purchased from Mobil/Exxon by Mike Hajizadeh. The EPA ID # was already in his name and will remain the same. RUR to change the business from EXXon/Mobil to Fullerton University Mobil, Inc. The facility will no longer be a "Certified Used Oil Center". The HW was being stored over 180 days. See violations.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	11-19-2018
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	VIOLATION NOTED.
Eval Division:	Fullerton City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	11-30-2016
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Monitor certification performed this date.
Eval Division:	Fullerton City Fire Department
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	11-30-2017
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	No violations observed.
Eval Division:	Fullerton City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	05-13-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	CERS review: BA/OW pg - possible change of OW
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	11-30-2016
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported

MOBIL #18-FHE (Continued) **S101589517**

Eval Division:	Fullerton City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	12-02-2015
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Monitor certification performed this date
Eval Division:	Fullerton City Fire Department
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	12-03-2013
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Disclosure No violation
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	12-19-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	CERS review
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS

Coordinates:

Site ID:	32061
Facility Name:	MOBIL BLUE, INC.
Env Int Type Code:	HWG
Program ID:	10453396
Coord Name:	Not reported
Ref Point Type Desc:	Center of a facility or station.
Latitude:	33.874520
Longitude:	-117.889220

Affiliation:

Affiliation Type Desc:	Document Preparer
Entity Name:	LANCE YORK
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	UST Tank Owner
Entity Name:	MOBIL BLUE, INC.
Entity Title:	Not reported
Affiliation Address:	506 N. STATE COLLEGE BLVD.

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Affiliation City:	FULLERTON
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92831
Affiliation Phone:	(714) 735-1418
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	506 N. STATE COLLEGE BLVD.
Affiliation City:	FULLERTON
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92831
Affiliation Phone:	Not reported
Affiliation Type Desc:	Identification Signer
Entity Name:	LANCE YORK
Entity Title:	DESIGNATED OPERATOR
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Legal Owner
Entity Name:	MOBIL BLUE, INC.
Entity Title:	Not reported
Affiliation Address:	506 N. STATE COLLEGE BLVD.
Affiliation City:	FULLERTON
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92831
Affiliation Phone:	(714) 738-1418
Affiliation Type Desc:	Property Owner
Entity Name:	MOBIL BLUE, INC.
Entity Title:	Not reported
Affiliation Address:	506 N. STATE COLLEGE BLVD.
Affiliation City:	FULLERTON
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92831
Affiliation Phone:	(714) 738-1418
Affiliation Type Desc:	UST Tank Operator
Entity Name:	MOBIL BLUE, INC.
Entity Title:	Not reported
Affiliation Address:	506 N. STATE COLLEGE BLVD.
Affiliation City:	FULLERTON
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92831
Affiliation Phone:	(714) 735-1418
Affiliation Type Desc:	CUPA District

MOBIL #18-FHE (Continued) **S101589517**

Entity Name:	Orange County Env Health
Entity Title:	Not reported
Affiliation Address:	1241 East Dyer RoadSuite 120
Affiliation City:	Santa Ana
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92705-5611
Affiliation Phone:	(714) 433-6000

Affiliation Type Desc:	Environmental Contact
Entity Name:	Lance York
Entity Title:	Not reported
Affiliation Address:	21352 SILVERTREE LN.
Affiliation City:	TRABUCO CANYON
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92679
Affiliation Phone:	Not reported

Affiliation Type Desc:	Operator
Entity Name:	MOBIL BLUE, INC.
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(714) 738-1418

Affiliation Type Desc:	Parent Corporation
Entity Name:	SERVICE STATION OF THE STARS
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	UST Property Owner Name
Entity Name:	MOBIL BLUE, INC.
Entity Title:	Not reported
Affiliation Address:	506 N. STATE COLLEGE BLVD.
Affiliation City:	FULLERTON
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92831
Affiliation Phone:	(714) 735-1418

CA FID UST:

Facility ID:	30017279
Regulated By:	UTNKA
Regulated ID:	Not reported
Cortese Code:	Not reported
SIC Code:	Not reported
Facility Phone:	7147359858

MOBIL #18-FHE (Continued) **S101589517**

Mail To:	Not reported
Mailing Address:	3800 W ALAMEDA 700 ATTN: CR
Mailing Address 2:	Not reported
Mailing City,St,Zip:	FULLERTON 92631
Contact:	Not reported
Contact Phone:	Not reported
DUNs Number:	Not reported
NPDES Number:	Not reported
EPA ID:	Not reported
Comments:	Not reported
Status:	Active

CERS TANKS:

Site ID:	32061
CERS ID:	10453396
Site Name:	MOBIL BLUE, INC.
CERS Description:	Chemical Storage Facilities

Violations:

Site ID:	32061
Site Name:	MOBIL BLUE, INC.
Violation Date:	11-19-2018
Citation:	23 CCR 16 2641(j) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2641(j)
Violation Description:	Failure of the leak detection equipment to be installed, calibrated, operated, and/or maintained properly.
Violation Notes:	WPLLD'S FOR 87, 89, AND 91 IN ALARM DOZENS OF TIMES DATING BACK TO 12/2017 FOR "COMM FAILURE". FACILITY SHALL INVESTIGATE AND IDENTIFY CAUSE AND PERFORM REPAIRS UNDER PERMIT FROM THIS AGENCY.
Violation Division:	Fullerton City Fire Department
Violation Program:	UST
Violation Source:	CERS

Site ID:	32061
Site Name:	MOBIL BLUE, INC.
Violation Date:	08-26-2013
Citation:	22 CCR 12 66262.34(d) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(d)
Violation Description:	Failure to dispose of hazardous waste within 180 days (or 270 if waste is transported over 200 miles) for the generator who generates less than 1000 kilogram per month, but more than 100 kilograms per month.
Violation Notes:	Returned to compliance on 10/23/2013. The facility has (2) 5 gallon pails of "water/fuel" on site that were used for the UST/UDC testing in 8-2012. All other hazardous waste have not been hauled since 2-2013. As a small quantity generator (SQG) all hazardous waste must be hauled every 6 months. Immediately have all your hazardous wastes (waste oil/oil filters/parts washer solvent/radiator fluid and the UST test water) hauled away as hazardous wastes. Maintain all the manifests in order to verify proper disposal. This Agency will conduct a follow up inspection on/before 10-23-13 in order to verify proper disposal.
Violation Division:	Orange County Environmental Health
Violation Program:	HW
Violation Source:	CERS

Site ID:	32061
Site Name:	MOBIL BLUE, INC.

MOBIL #18-FHE (Continued) **S101589517**

Violation Date: 11-30-2016
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit a site map with all required content.
Violation Notes: Returned to compliance on 02/13/2017.
Violation Division: Fullerton City Fire Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 32061
Site Name: MOBIL BLUE, INC.
Violation Date: 11-30-2016
Citation: 23 CCR 16 2641(a) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2641(a)
Violation Description: Failure of leak detection equipment to be located such that equipment is capable of detecting a leak at the earliest possible opportunity.
Violation Notes: Returned to compliance on 11/30/2016. Sensors in the 89 UST sump and the 91 fill sump were not positioned perpendicular to the bottom of the sump. Corrected during inspection.
Violation Division: Fullerton City Fire Department
Violation Program: UST
Violation Source: CERS

Site ID: 32061
Site Name: MOBIL BLUE, INC.
Violation Date: 11-19-2018
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes: FACILITY STORES UST WASTE OIL TANK ON SITE. AT THE TIME OF INSPECTION, VISIBLE AMOUNTS OF PRODUCT WERE STORED INSIDE OF WASTE OIL TANK AND SHALL BE PROPERLY DISPOSED OF OR DISCLOSED ON CHEMICAL INVENTORY.
Violation Division: Fullerton City Fire Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 32061
Site Name: MOBIL BLUE, INC.
Violation Date: 12-02-2015
Citation: HSC 6.11 25404(e)(4) - California Health and Safety Code, Chapter 6.11, Section(s) 25404(e)(4)
Violation Description: Failure to report program data electronically.
Violation Notes: Returned to compliance on 12/09/2015. Current CFO letter had not been uploaded to CERS. For all UST systems.
Violation Division: Fullerton City Fire Department
Violation Program: UST
Violation Source: CERS

Site ID: 32061
Site Name: MOBIL BLUE, INC.
Violation Date: 12-02-2015
Citation: 23 CCR 16 2643(b)(5) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2643(b)(5)
Violation Description: Failure to conduct the 0.2 gallons per hour continuous in tank leak

MOBIL #18-FHE (Continued) **S101589517**

	detection test.
Violation Notes:	Returned to compliance on 12/02/2015. CSLD test was not performed for month of November. For all UST systems.
Violation Division:	Fullerton City Fire Department
Violation Program:	UST
Violation Source:	CERS
Site ID:	32061
Site Name:	MOBIL BLUE, INC.
Violation Date:	11-30-2016
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes:	Returned to compliance on 02/13/2017. New oil and waste coolant were present in disclosable quantities but not included in the inventory.
Violation Division:	Fullerton City Fire Department
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	32061
Site Name:	MOBIL BLUE, INC.
Violation Date:	11-30-2016
Citation:	23 CCR 16 2712(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(i)
Violation Description:	Failure to have a UST Monitoring Plan available on site.
Violation Notes:	Returned to compliance on 12/01/2016. No monitoring plan on site (all usts).
Violation Division:	Fullerton City Fire Department
Violation Program:	UST
Violation Source:	CERS

Evaluation:

Eval General Type:	Other/Unknown
Eval Date:	10-07-2013
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Processed A21.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	11-19-2018
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	VIOLATION NOTED. MONITOR CERTIFICATION OBSERVED THIS DAY.
Eval Division:	Fullerton City Fire Department
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	12-03-2013
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	UST No violations

MOBIL #18-FHE (Continued) **S101589517**

Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	10-17-2013
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Received copy of waste oil manifest (9-4-13) to verify waste oil inUST was properly disposed. No outstanding violations.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	11-30-2017
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	No violations observed.
Eval Division:	Fullerton City Fire Department
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	12-02-2015
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Fullerton City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	08-22-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	The old owner is gone. The new owner info is below. Change of ownership date was March 14, 2016. TILITE, INC. 17702 MITCHELL N, STE 201 IRVINE, CA 92615 714 738-1418 MOHSEN GHANEIAN, OWNER CAL000413333
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-26-2013
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	On site to conduct the annual hazardous waste inspection. Permission to inspect was granted and observed by the business owner/Hajizadeh. All hazardous waste were stored in closed/proper containers (waste oil is in a UST). Emergency response plan on site. HW stored in a locked area. Trash and property were reviewed and no evidence of chemical disposal. The business was purchased from Mobil/Exxon by Mike Hajizadeh. The EPA ID # was already in his name and will remain the same. RUR to change the business from EXXon/Mobil to Fullerton University Mobil, Inc. The facility will no longer be a "Certified Used Oil Center". The HW was being stored over 180 days. See

MOBIL #18-FHE (Continued) **S101589517**

violations.
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-19-2018
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: VIOLATION NOTED.
Eval Division: Fullerton City Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-30-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Monitor certification performed this date.
Eval Division: Fullerton City Fire Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-30-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: No violations observed.
Eval Division: Fullerton City Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 05-13-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: CERS review: BA/OW pg - possible change of OW
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-30-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Fullerton City Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-02-2015
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Monitor certification performed this date
Eval Division: Fullerton City Fire Department
Eval Program: UST

MOBIL #18-FHE (Continued) **S101589517**

Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	12-03-2013
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Disclosure No violation
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	12-19-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	CERS review
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS

Coordinates:

Site ID:	32061
Facility Name:	MOBIL BLUE, INC.
Env Int Type Code:	HWG
Program ID:	10453396
Coord Name:	Not reported
Ref Point Type Desc:	Center of a facility or station.
Latitude:	33.874520
Longitude:	-117.889220

Affiliation:

Affiliation Type Desc:	Document Preparer
Entity Name:	LANCE YORK
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	UST Tank Owner
Entity Name:	MOBIL BLUE, INC.
Entity Title:	Not reported
Affiliation Address:	506 N. STATE COLLEGE BLVD.
Affiliation City:	FULLERTON
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92831
Affiliation Phone:	(714) 735-1418
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	506 N. STATE COLLEGE BLVD.
Affiliation City:	FULLERTON

MOBIL #18-FHE (Continued) **S101589517**

Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92831
Affiliation Phone:	Not reported

Affiliation Type Desc:	Identification Signer
Entity Name:	LANCE YORK
Entity Title:	DESIGNATED OPERATOR
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Legal Owner
Entity Name:	MOBIL BLUE, INC.
Entity Title:	Not reported
Affiliation Address:	506 N. STATE COLLEGE BLVD.
Affiliation City:	FULLERTON
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92831
Affiliation Phone:	(714) 738-1418

Affiliation Type Desc:	Property Owner
Entity Name:	MOBIL BLUE, INC.
Entity Title:	Not reported
Affiliation Address:	506 N. STATE COLLEGE BLVD.
Affiliation City:	FULLERTON
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92831
Affiliation Phone:	(714) 738-1418

Affiliation Type Desc:	UST Tank Operator
Entity Name:	MOBIL BLUE, INC.
Entity Title:	Not reported
Affiliation Address:	506 N. STATE COLLEGE BLVD.
Affiliation City:	FULLERTON
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92831
Affiliation Phone:	(714) 735-1418

Affiliation Type Desc:	CUPA District
Entity Name:	Orange County Env Health
Entity Title:	Not reported
Affiliation Address:	1241 East Dyer RoadSuite 120
Affiliation City:	Santa Ana
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92705-5611
Affiliation Phone:	(714) 433-6000

Affiliation Type Desc:	Environmental Contact
Entity Name:	Lance York

MOBIL #18-FHE (Continued) **S101589517**

Entity Title:	Not reported
Affiliation Address:	21352 SILVERTREE LN.
Affiliation City:	TRABUCO CANYON
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92679
Affiliation Phone:	Not reported

Affiliation Type Desc:	Operator
Entity Name:	MOBIL BLUE, INC.
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(714) 738-1418

Affiliation Type Desc:	Parent Corporation
Entity Name:	SERVICE STATION OF THE STARS
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	UST Property Owner Name
Entity Name:	MOBIL BLUE, INC.
Entity Title:	Not reported
Affiliation Address:	506 N. STATE COLLEGE BLVD.
Affiliation City:	FULLERTON
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92831
Affiliation Phone:	(714) 735-1418

Site ID:	250324
CERS ID:	T0605900668
Site Name:	MOBIL #18-FHE
CERS Description:	Leaking Underground Storage Tank Cleanup Site

Affiliation:

Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	ROSE SCOTT - SANTA ANA RWQCB (REGION 8)
Entity Title:	Not reported
Affiliation Address:	3737 MAIN STREET, SUITE 500
Affiliation City:	RIVERSIDE
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	9513206375

Affiliation Type Desc:	Local Agency Caseworker
Entity Name:	STEPHEN LONG - FULLERTON, CITY OF
Entity Title:	Not reported

MOBIL #18-FHE (Continued) **S101589517**

Affiliation Address:	312 E. COMMONWEALTH AVE.
Affiliation City:	FULLERTON
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	7147383160

P106 **RCRA-LQG** **1007200106**
SSW **506 N STATE COLLEGE BLVD** **CAL000055745**
1/8-1/4 **FULLERTON, CA 92831**
0.225 mi.
1189 ft. **Site 4 of 6 in cluster P**

Relative:
Lower

Actual:
219 ft.

RCRA-LQG:

Date form received by agency:	02/28/2002
Facility name:	Not reported
Facility address:	506 N STATE COLLEGE BLVD FULLERTON, CA 92831
EPA ID:	CAL000055745
Mailing address:	12265 WEST BAYAUD AVE. LAKEWOOD, CO 80228
Contact:	JOHN HOOVER
Contact address:	Not reported Not reported
Contact country:	US
Contact telephone:	800-253-8054
Contact email:	Not reported
EPA Region:	Not reported
Classification:	Large Quantity Generator
Description:	Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No

(Continued) **1007200106**

Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

Q107 SE 1/8-1/4 0.230 mi. 1214 ft. | **M & J EQUIPMENT 450 PLACENTIA PLACENTIA, CA 92670** | **CA LUST CA HIST CORTESE CA CERS** | **S100866549 N/A**

Site 1 of 2 in cluster Q

Relative: Lower
Actual: 234 ft.

LUST:
Lead Agency: ORANGE COUNTY LOP
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0605900174
Global Id: T0605900174
Latitude: 33.8672079
Longitude: -117.8808091
Status: Completed - Case Closed
Status Date: 03/12/1997
Case Worker: TE
RB Case Number: 083000226T
Local Agency: ORANGE COUNTY LOP
File Location: Local Agency
Local Case Number: 86UT120
Potential Media Affect: Soil
Potential Contaminants of Concern: Diesel
Site History: Not reported

LUST:
Global Id: T0605900174
Contact Type: Regional Board Caseworker
Contact Name: CARL BERNHARDT
Organization Name: SANTA ANA RWQCB (REGION 8)
Address: 3737 MAIN STREET, SUITE 500
City: RIVERSIDE
Email: carl.bernhardt@waterboards.ca.gov
Phone Number: 9517824495

Global Id: T0605900174
Contact Type: Local Agency Caseworker
Contact Name: TAMARA ESCOBEDO
Organization Name: ORANGE COUNTY LOP
Address: 1241 EAST DYER ROAD SUITE 120
City: SANTA ANA
Email: tescobedo@ochca.com
Phone Number: 7144336251

LUST:
Global Id: T0605900174
Action Type: Other
Date: 07/15/1986
Action: Leak Reported

Global Id: T0605900174
Action Type: ENFORCEMENT
Date: 03/12/1997
Action: Closure/No Further Action Letter

M & J EQUIPMENT (Continued) **S100866549**

Global Id:	T0605900174
Action Type:	Other
Date:	07/15/1986
Action:	Leak Discovery

LUST:

Global Id:	T0605900174
Status:	Completed - Case Closed
Status Date:	03/12/1997

Global Id:	T0605900174
Status:	Open - Case Begin Date
Status Date:	07/15/1986

ORANGE CO. LUST:

Region:	ORANGE
Facility Id:	86UT120
Released Substance:	Diesel fuel oil and additives, Nos.1-D, 2-D, 2-4
Date Closed:	03/12/1997
Record ID:	RO0001188

LUST REG 8:

Region:	8
County:	Orange
Regional Board:	Santa Ana Region
Facility Status:	Case Closed
Case Number:	083000226T
Local Case Num:	86UT120
Case Type:	Soil only
Substance:	Diesel
Qty Leaked:	0
Abate Method:	Not reported
Cross Street:	Not reported
Enf Type:	Not reported
Funding:	Not reported
How Discovered:	Tank Closure
How Stopped:	Close Tank
Leak Cause:	Unknown
Leak Source:	Unknown
Global ID:	T0605900174
How Stopped Date:	9/9/9999
Enter Date:	Not reported
Date Confirmation of Leak Began:	Not reported
Date Preliminary Assessment Began:	Not reported
Discover Date:	7/15/1986
Enforcement Date:	Not reported
Close Date:	3/12/1997
Date Prelim Assessment Workplan Submitted:	Not reported
Date Pollution Characterization Began:	Not reported
Date Remediation Plan Submitted:	Not reported
Date Remedial Action Underway:	Not reported
Date Post Remedial Action Monitoring:	Not reported
Enter Date:	Not reported
GW Qualifies:	Not reported
Soil Qualifies:	Not reported

M & J EQUIPMENT (Continued) **S100866549**

Operator:	Not reported
Facility Contact:	Not reported
Interim:	Not reported
Oversite Program:	LUST
Latitude:	33.8672079
Longitude:	-117.8808091
MTBE Date:	Not reported
Max MTBE GW:	Not reported
MTBE Concentration:	0
Max MTBE Soil:	Not reported
MTBE Fuel:	0
MTBE Tested:	Not Required to be Tested.
MTBE Class:	*
Staff:	CAB
Staff Initials:	SK
Lead Agency:	Local Agency
Local Agency:	30000L
Hydr Basin #:	Not reported
Beneficial:	MUN
Priority:	Not reported
Cleanup Fund Id:	Not reported
Work Suspended:	Not reported
Summary:	Not reported

HIST CORTESE:

Region:	CORTESE
Facility County Code:	30
Reg By:	LTNKA
Reg Id:	083000226T

CERS TANKS:

Site ID:	244600
CERS ID:	T0605900174
Site Name:	M & J EQUIPMENT
CERS Description:	Leaking Underground Storage Tank Cleanup Site

Affiliation:

Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	CARL BERNHARDT - SANTA ANA RWQCB (REGION 8)
Entity Title:	Not reported
Affiliation Address:	3737 MAIN STREET, SUITE 500
Affiliation City:	RIVERSIDE
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	9517824495

Affiliation Type Desc:	Local Agency Caseworker
Entity Name:	TAMARA ESCOBEDO - ORANGE COUNTY LOP
Entity Title:	Not reported
Affiliation Address:	1241 EAST DYER ROAD SUITE 120
Affiliation City:	SANTA ANA
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	7144336251

Q108 SE 1/8-1/4 0.231 mi. 1220 ft. | **BRISTOL FIBERLITE INDUSTR 401 FULLERTON, CA 92831** | **CA HIST CORTESE** | **S104755399 N/A**

Site 2 of 2 in cluster Q

Relative: Lower
Actual: 234 ft.

HIST CORTESE:

Region:	CORTESE
Facility County Code:	30
Reg By:	LTNKA
Reg Id:	083003528T
Region:	CORTESE
Facility County Code:	30
Reg By:	LTNKA
Reg Id:	083002960T
Region:	CORTESE
Facility County Code:	30
Reg By:	LTNKA
Reg Id:	083000072T
Region:	CORTESE
Facility County Code:	30
Reg By:	LTNKA
Reg Id:	083002831T

N109 SSW 1/8-1/4 0.234 mi. 1236 ft. | **SMART & FINAL #425 2475 E CHAPMAN AVE FULLERTON, CA 92831** | **CA CERS HAZ WASTE CA HAZNET CA CERS** | **S117310868 N/A**

Site 3 of 7 in cluster N

Relative: Lower
Actual: 222 ft.

CERS HAZ WASTE:

Site ID:	154191
CERS ID:	10435291
CERS Description:	Hazardous Waste Generator

Violations:

Site ID:	154191
Site Name:	Smart & Final # 425
Violation Date:	05-27-2015
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit a site map with all required content.
Violation Notes:	Returned to compliance on 07/14/2015. SITE MAP CORRECTED AND SUBMITTED
Violation Division:	Fullerton City Fire Department
Violation Program:	HMRRP
Violation Source:	CERS

Evaluation:

Eval General Type:	Other/Unknown
Eval Date:	05-20-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	CERS review: BA/OW pg
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS

SMART & FINAL #425 (Continued) **S117310868**

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	04-14-2016
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	On site for the triennial Hazardous Waste (HW) inspection. Permission to inspect granted by Smart & Final/Jackson. The facility is a small quantity generator (SQG) and is required to have the HW hauled away every 6 months. They are currently on a 90 day haul away cycle. EPA ID # is correct. Manifests reviewed and correct. All HW containers (5 gallon plastic boxes) are stored closed and properly labeled. All HW are identified by staff visual evaluation who identify the proper HW storage container. Weekly HW inspection logs OK. Annual HW training is OK. HMBEP is on file for FFD. Dumpster and perimeter review showed no HW. No violations.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	05-27-2015
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	UPDATE SIGE MAP
Eval Division:	Fullerton City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	07-26-2013
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Processed A21.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	04-18-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Change facility corporate contact.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	11-12-2013
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Review and discuss chemical disclosure in CERS to respond to Darryl Dinson's questions.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS

Coordinates:

Site ID:	154191

SMART & FINAL #425 (Continued) **S117310868**

Facility Name:	Smart & Final # 425
Env Int Type Code:	HWG
Program ID:	10435291
Coord Name:	Not reported
Ref Point Type Desc:	Center of a facility or station.
Latitude:	33.874330
Longitude:	-117.887430

Affiliation:

Affiliation Type Desc:	Document Preparer
Entity Name:	Darryl Dinson
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Environmental Contact
Entity Name:	Darryl Dinson
Entity Title:	Not reported
Affiliation Address:	P.O. Box 512377
Affiliation City:	Los Angeles
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	90051-0377
Affiliation Phone:	Not reported

Affiliation Type Desc:	Legal Owner
Entity Name:	SMART & FINAL STORES LLC
Entity Title:	Not reported
Affiliation Address:	P.O. Box 512377
Affiliation City:	Los Angeles
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	90051-0377
Affiliation Phone:	(323) 869-7500

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	P.O. Box 512377
Affiliation City:	Los Angeles
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	90051-0377
Affiliation Phone:	Not reported

Affiliation Type Desc:	CUPA District
Entity Name:	Orange County Env Health
Entity Title:	Not reported
Affiliation Address:	1241 East Dyer RoadSuite 120
Affiliation City:	Santa Ana
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92705-5611

SMART & FINAL #425 (Continued) **S117310868**

Affiliation Phone: (714) 433-6000

Affiliation Type Desc: Identification Signer
Entity Name: Darryl Dinson
Entity Title: Environmental Health Compliance Manager
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Operator
Entity Name: Smart & Final #425
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (714) 441-1069

Affiliation Type Desc: Parent Corporation
Entity Name: Smart and Final Stores
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

HAZNET:
Site Name: SMART & FINAL #425
Year: 2017
GEPAID: CAL000380250
Contact: DARRYL DINSON
Telephone: 3238697704
Mailing Name: Not reported
Mailing Address: PO BOX 512377
Mailing City,St,Zip: LOS ANGELES, CA 900510000
Gen County: Orange
TSD EPA ID: CAD008364432
TSD County: Los Angeles
Tons: 0.17
CA Waste Code: 122-Alkaline solution without metals pH >= 12.5
Method: H141-Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County: Orange

Site Name: SMART & FINAL #425
Year: 2017
GEPAID: CAL000380250
Contact: DARRYL DINSON
Telephone: 3238697704
Mailing Name: Not reported

SMART & FINAL #425 (Continued) **S117310868**

Mailing Address:	PO BOX 512377
Mailing City,St,Zip:	LOS ANGELES, CA 900510000
Gen County:	Orange
TSD EPA ID:	CAD008364432
TSD County:	Los Angeles
Tons:	0.0765
CA Waste Code:	214-Unspecified solvent mixture
Method:	H141-Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County:	Orange

Site Name:	SMART & FINAL #425
Year:	2017
GEPAID:	CAL000380250
Contact:	DARRYL DINSON
Telephone:	3238697704
Mailing Name:	Not reported
Mailing Address:	PO BOX 512377
Mailing City,St,Zip:	LOS ANGELES, CA 900510000
Gen County:	Orange
TSD EPA ID:	CAD008364432
TSD County:	Los Angeles
Tons:	0.006
CA Waste Code:	331-Off-specification, aged or surplus organics
Method:	H141-Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County:	Orange

Site Name:	SMART & FINAL #425
Year:	2017
GEPAID:	CAL000380250
Contact:	DARRYL DINSON
Telephone:	3238697704
Mailing Name:	Not reported
Mailing Address:	PO BOX 512377
Mailing City,St,Zip:	LOS ANGELES, CA 900510000
Gen County:	Orange
TSD EPA ID:	CAD008364432
TSD County:	Los Angeles
Tons:	0.003
CA Waste Code:	791-Liquids with pH <= 2
Method:	H141-Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County:	Orange

Site Name:	SMART & FINAL #425
Year:	2017
GEPAID:	CAL000380250
Contact:	DARRYL DINSON
Telephone:	3238697704
Mailing Name:	Not reported
Mailing Address:	PO BOX 512377
Mailing City,St,Zip:	LOS ANGELES, CA 900510000
Gen County:	Orange
TSD EPA ID:	CAD008364432
TSD County:	Los Angeles
Tons:	0.0005

SMART & FINAL #425 (Continued) **S117310868**

CA Waste Code: 181-Other inorganic solid waste
Method: H141-Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County: Orange

Click this hyperlink while viewing on your computer to access
20 additional CA_HAZNET: record(s) in the EDR Site Report.

CERS TANKS:
Site ID: 154191
CERS ID: 10435291
Site Name: SMART & FINAL # 425
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 154191
Site Name: Smart & Final # 425
Violation Date: 05-27-2015
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit a site map with all required content.
Violation Notes: Returned to compliance on 07/14/2015. SITE MAP CORRECTED AND SUBMITTED
Violation Division: Fullerton City Fire Department
Violation Program: HMRRP
Violation Source: CERS

Evaluation:
Eval General Type: Other/Unknown
Eval Date: 05-20-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: CERS review: BA/OW pg
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-14-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: On site for the triennial Hazardous Waste (HW) inspection. Permission to inspect granted by Smart & Final/Jackson. The facility is a small quantity generator (SQG) and is required to have the HW hauled away every 6 months. They are currently on a 90 day haul away cycle. EPA ID # is correct. Manifests reviewed and correct. All HW containers (5 gallon plastic boxes) are stored closed and properly labeled. All HW are identified by staff visual evaluation who identify the proper HW storage container. Weekly HW inspection logs OK. Annual HW training is OK. HMBEP is on file for FFD. Dumpster and perimeter review showed no HW. No violations.
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 05-27-2015

SMART & FINAL #425 (Continued) **S117310868**

Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	UPDATE SIGE MAP
Eval Division:	Fullerton City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	07-26-2013
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Processed A21.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	04-18-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Change facility corporate contact.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	11-12-2013
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Review and discuss chemical disclosure in CERS to respond to Darryl Dinson's questions.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS

Coordinates:

Site ID:	154191
Facility Name:	Smart & Final # 425
Env Int Type Code:	HWG
Program ID:	10435291
Coord Name:	Not reported
Ref Point Type Desc:	Center of a facility or station.
Latitude:	33.874330
Longitude:	-117.887430

Affiliation:

Affiliation Type Desc:	Document Preparer
Entity Name:	Darryl Dinson
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

SMART & FINAL #425 (Continued) **S117310868**

Affiliation Type Desc:	Environmental Contact
Entity Name:	Darryl Dinson
Entity Title:	Not reported
Affiliation Address:	P.O. Box 512377
Affiliation City:	Los Angeles
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	90051-0377
Affiliation Phone:	Not reported

Affiliation Type Desc:	Legal Owner
Entity Name:	SMART & FINAL STORES LLC
Entity Title:	Not reported
Affiliation Address:	P.O. Box 512377
Affiliation City:	Los Angeles
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	90051-0377
Affiliation Phone:	(323) 869-7500

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	P.O. Box 512377
Affiliation City:	Los Angeles
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	90051-0377
Affiliation Phone:	Not reported

Affiliation Type Desc:	CUPA District
Entity Name:	Orange County Env Health
Entity Title:	Not reported
Affiliation Address:	1241 East Dyer RoadSuite 120
Affiliation City:	Santa Ana
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92705-5611
Affiliation Phone:	(714) 433-6000

Affiliation Type Desc:	Identification Signer
Entity Name:	Darryl Dinson
Entity Title:	Environmental Health Compliance Manager
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Operator
Entity Name:	Smart & Final #425
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported

SMART & FINAL #425 (Continued) **S117310868**

Affiliation Zip:	Not reported
Affiliation Phone:	(714) 441-1069
Affiliation Type Desc:	Parent Corporation
Entity Name:	Smart and Final Stores
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

R110 **CHEVRON #9-8976** **CA LUST** **S103891658**
NE **2961 YORBA LINDA BLVD** **CA CHMIRS** **N/A**
1/8-1/4 **FULLERTON, CA 92631** **CA HIST CORTESE**
0.234 mi.
1238 ft. **Site 1 of 7 in cluster R**

Relative:
Higher

Actual:
277 ft.

LUST REG 8:

Region:	8
County:	Orange
Regional Board:	Santa Ana Region
Facility Status:	Case Closed
Case Number:	083001690T
Local Case Num:	Not reported
Case Type:	Soil only
Substance:	Gasoline
Qty Leaked:	Not reported
Abate Method:	Not reported
Cross Street:	PLACENTIA
Enf Type:	CLOS
Funding:	Not reported
How Discovered:	Tank Closure
How Stopped:	Not reported
Leak Cause:	UNK
Leak Source:	UNK
Global ID:	T0605901276
How Stopped Date:	8/2/1990
Enter Date:	12/15/1990
Date Confirmation of Leak Began:	8/2/1990
Date Preliminary Assessment Began:	Not reported
Discover Date:	8/2/1990
Enforcement Date:	Not reported
Close Date:	1/14/1992
Date Prelim Assessment Workplan Submitted:	Not reported
Date Pollution Characterization Began:	Not reported
Date Remediation Plan Submitted:	Not reported
Date Remedial Action Underway:	Not reported
Date Post Remedial Action Monitoring:	Not reported
Enter Date:	12/15/1990
GW Qualifies:	Not reported
Soil Qualifies:	Not reported
Operator:	Not reported
Facility Contact:	Not reported
Interim:	Not reported
Oversite Program:	LUST

CHEVRON #9-8976 (Continued) **S103891658**

Latitude:	33.8892845
Longitude:	-117.8753244
MTBE Date:	Not reported
Max MTBE GW:	Not reported
MTBE Concentration:	0
Max MTBE Soil:	Not reported
MTBE Fuel:	1
MTBE Tested:	Site NOT Tested for MTBE.Includes Unknown and Not Analyzed.
MTBE Class:	*
Staff:	RS
Staff Initials:	SRL
Lead Agency:	Local Agency
Local Agency:	30013
Hydr Basin #:	COASTAL PLAIN OF ORA
Beneficial:	Not reported
Priority:	Not reported
Cleanup Fund Id:	Not reported
Work Suspended:	Not reported
Summary: Not reported	

CHMIRS:

OES Incident Number:	4-6684
OES notification:	11/22/2014
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	No
Waterway:	Not reported
Spill Site:	Service Station
Cleanup By:	No
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported

CHEVRON #9-8976 (Continued) **S103891658**

Measure:	Not reported
Other:	Not reported
Type:	PETROLEUM
Measure:	Qt.(s)
Other:	Not reported
Date/Time:	1400
Year:	2014
Agency:	Chevron
Incident Date:	11/22/2014
Admin Agency:	Not reported
Amount:	Not reported
Contained:	Yes
Site Type:	Not reported
E Date:	Not reported
Substance:	Gasoline
Quantity Released:	1
Unknown:	Not reported
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	Not reported
Number of Injuries:	Not reported
Number of Fatalities:	Not reported
#1 Pipeline:	No
#2 Pipeline:	No
#3 Pipeline:	No
#1 Vessel >= 300 Tons:	No
#2 Vessel >= 300 Tons:	No
#3 Vessel >= 300 Tons:	No
Evacs:	No
Injuries:	Overflow
Fatals:	No
Comments:	Not reported
Description:	RP states that a customer overfilled a vehicle resulting in the release of approx 1 qt of gasoline onto the ground. The release is contained, cleanup is in progress, and no waterways were impacted.

HIST CORTESE:

Region:	CORTESE
Facility County Code:	30
Reg By:	LTNKA
Reg Id:	083001690T

R111
NE
1/8-1/4
0.234 mi.
1238 ft.

CHEVRON STATION #98976
2961 E YORBA LINDA BLVD
FULLERTON, CA 92631

CA SWEEPS UST **S101589507**
CA FID UST **N/A**

Site 2 of 7 in cluster R

Relative:
Higher

Actual:
277 ft.

SWEEPS UST:

Status:	Active
Comp Number:	2095
Number:	9
Board Of Equalization:	Not reported
Referral Date:	02-11-92
Action Date:	02-11-92

CHEVRON STATION #98976 (Continued) **S101589507**

Created Date:	12-31-88
Owner Tank Id:	42
SWRCB Tank Id:	30-013-002095-000001
Tank Status:	A
Capacity:	250
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	P
Content:	JET FUEL
Number Of Tanks:	4

Status:	Active
Comp Number:	2095
Number:	9
Board Of Equalization:	Not reported
Referral Date:	02-11-92
Action Date:	02-11-92
Created Date:	12-31-88
Owner Tank Id:	42
SWRCB Tank Id:	30-013-002095-000004
Tank Status:	A
Capacity:	10000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	W
Content:	REG UNLEADED
Number Of Tanks:	Not reported

Status:	Active
Comp Number:	2095
Number:	9
Board Of Equalization:	Not reported
Referral Date:	02-11-92
Action Date:	02-11-92
Created Date:	12-31-88
Owner Tank Id:	42
SWRCB Tank Id:	30-013-002095-000005
Tank Status:	A
Capacity:	10000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	W
Content:	REG UNLEADED
Number Of Tanks:	Not reported

Status:	Active
Comp Number:	2095
Number:	9
Board Of Equalization:	Not reported
Referral Date:	02-11-92
Action Date:	02-11-92
Created Date:	12-31-88
Owner Tank Id:	42
SWRCB Tank Id:	30-013-002095-000006
Tank Status:	A
Capacity:	10000
Active Date:	Not reported

CHEVRON STATION #98976 (Continued) **S101589507**

Tank Use: M.V. FUEL
STG: W
Content: LEADED
Number Of Tanks: Not reported

CA FID UST:
Facility ID: 30016888
Regulated By: UTNKA
Regulated ID: Not reported
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 7145283820
Mail To: Not reported
Mailing Address: P O BOX
Mailing Address 2: Not reported
Mailing City,St,Zip: FULLERTON 92631
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Active

R112 **98976** **CA HIST UST** **U001576960**
NE **2961 YORBA LINDA BLVD** **N/A**
1/8-1/4 **FULLERTON, CA 92631**
0.234 mi.
1238 ft. **Site 3 of 7 in cluster R**

Relative:
Higher

Actual:
277 ft.

HIST UST:
File Number: Not reported
URL: Not reported
Region: STATE
Facility ID: 00000063165
Facility Type: Gas Station
Other Type: Not reported
Contact Name: FAHAMI,ABI
Telephone: 7145283820
Owner Name: CHEVRON U.S.A. INC.
Owner Address: 575 MARKET
Owner City,St,Zip: SAN FRANCISCO, CA 94105
Total Tanks: 0004

Tank Num: 001
Container Num: 1
Year Installed: Not reported
Tank Capacity: 00001000
Tank Used for: WASTE
Type of Fuel: Not reported
Container Construction Thickness: 0000250
Leak Detection: Stock Inventor

Tank Num: 002
Container Num: 2
Year Installed: Not reported
Tank Capacity: 00010000

98976 (Continued) **U001576960**

Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Container Construction Thickness:	0000250
Leak Detection:	Stock Inventor
Tank Num:	003
Container Num:	3
Year Installed:	Not reported
Tank Capacity:	00010000
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Container Construction Thickness:	0000250
Leak Detection:	Stock Inventor
Tank Num:	004
Container Num:	4
Year Installed:	Not reported
Tank Capacity:	00010000
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Container Construction Thickness:	0000250
Leak Detection:	Stock Inventor

R113 **98976** **CA LUST** **S109284495**
NE **2961 E YORBA LINDA** **CA HIST UST** **N/A**
1/8-1/4 **FULLERTON, CA 92631** **CA CERS**
0.234 mi.
1238 ft. **Site 4 of 7 in cluster R**

Relative:
Higher

Actual:
277 ft.

LUST:

Lead Agency:	FULLERTON, CITY OF
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0605901276
Global Id:	T0605901276
Latitude:	33.889431
Longitude:	-117.874842
Status:	Completed - Case Closed
Status Date:	01/14/1992
Case Worker:	SRL
RB Case Number:	083001690T
Local Agency:	FULLERTON, CITY OF
File Location:	Not reported
Local Case Number:	Not reported
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

LUST:

Global Id:	T0605901276
Contact Type:	Regional Board Caseworker
Contact Name:	ROSE SCOTT
Organization Name:	SANTA ANA RWQCB (REGION 8)
Address:	3737 MAIN STREET, SUITE 500
City:	RIVERSIDE
Email:	rose.scott@waterboards.ca.gov
Phone Number:	9513206375
Global Id:	T0605901276

98976 (Continued) **S109284495**

Contact Type: Local Agency Caseworker
Contact Name: STEPHEN LONG
Organization Name: FULLERTON, CITY OF
Address: 312 E. COMMONWEALTH AVE.
City: FULLERTON
Email: stevel@fullertonfire.org
Phone Number: 7147383160

LUST:
Global Id: T0605901276
Action Type: Other
Date: 10/17/1990
Action: Leak Reported

Global Id: T0605901276
Action Type: ENFORCEMENT
Date: 01/14/1992
Action: Closure/No Further Action Letter

Global Id: T0605901276
Action Type: Other
Date: 08/02/1990
Action: Leak Discovery

Global Id: T0605901276
Action Type: Other
Date: 08/02/1990
Action: Leak Stopped

LUST:
Global Id: T0605901276
Status: Completed - Case Closed
Status Date: 01/14/1992

Global Id: T0605901276
Status: Open - Case Begin Date
Status Date: 08/02/1990

Global Id: T0605901276
Status: Open - Site Assessment
Status Date: 08/02/1990

HIST UST:
File Number: 0002E73D
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002E73D.pdf
Region: Not reported
Facility ID: Not reported
Facility Type: Not reported
Other Type: Not reported
Contact Name: Not reported
Telephone: Not reported
Owner Name: Not reported
Owner Address: Not reported
Owner City,St,Zip: Not reported
Total Tanks: Not reported

98976 (Continued) **S109284495**

Tank Num:	Not reported
Container Num:	Not reported
Year Installed:	Not reported
Tank Capacity:	Not reported
Tank Used for:	Not reported
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	Not reported

Click here for Geo Tracker PDF:

CERS TANKS:

Site ID:	228595
CERS ID:	T0605901276
Site Name:	CHEVRON #9-8976
CERS Description:	Leaking Underground Storage Tank Cleanup Site

Affiliation:

Affiliation Type Desc:	Local Agency Caseworker
Entity Name:	STEPHEN LONG - FULLERTON, CITY OF
Entity Title:	Not reported
Affiliation Address:	312 E. COMMONWEALTH AVE.
Affiliation City:	FULLERTON
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	7147383160

Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	ROSE SCOTT - SANTA ANA RWQCB (REGION 8)
Entity Title:	Not reported
Affiliation Address:	3737 MAIN STREET, SUITE 500
Affiliation City:	RIVERSIDE
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	9513206375

R114 **CHEVRON 98976** **RCRA-LQG** **1006805187**
NE **2961 YORBA LINDA BOULEVARD** **CA LUST** **CAR000124396**
1/8-1/4 **FULLERTON, CA 92831** **CA CERS HAZ WASTE**
0.234 mi. **CA CERS TANKS**
1238 ft. **Site 5 of 7 in cluster R** **FINDS**
ECHO
Relative: **CA HAZNET**
Higher **CA CERS**

Actual:
277 ft.

RCRA-LQG:

Date form received by agency:	03/01/2014
Facility name:	CHEVRON 98976
Facility address:	2961 YORBA LINDA BLVD FULLERTON, CA 92831
EPA ID:	CAR000124396
Mailing address:	YORBA LINDA BLVD FULLERTON, CA 92831
Contact:	KATHY NORRIS
Contact address:	P.O. BOX 6004

CHEVRON 98976 (Continued) **1006805187**

	SAN RAMON, CA 94583
Contact country:	Not reported
Contact telephone:	877-386-6044
Contact email:	NAWTDESK@CHEVRON.COM
EPA Region:	09
Classification:	Large Quantity Generator
Description:	Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Owner/Operator Summary:

Owner/operator name:	CHEVRON USA INC
Owner/operator address:	Not reported
	Not reported
Owner/operator country:	Not reported
Owner/operator telephone:	Not reported
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	01/09/1970
Owner/Op end date:	Not reported

Owner/operator name:	CHEVRON USA INC
Owner/operator address:	P.O. BOX 6004
	SAN RAMON, CA 94583
Owner/operator country:	Not reported
Owner/operator telephone:	925-842-1000
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	01/09/1970
Owner/Op end date:	Not reported

Owner/operator name:	CHEVRON PRODUCTS CO
Owner/operator address:	P O BOX 6004
	SAN RAMON, CA 94583
Owner/operator country:	Not reported
Owner/operator telephone:	925-842-5931
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported

CHEVRON 98976 (Continued) **1006805187**

Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 06/17/2002
Site name: CHEVRON STATION NO 98976
Classification: Small Quantity Generator

Hazardous Waste Summary:

. Waste code: 134
. Waste name: Aqueous solution with <10% total organic residues

. Waste code: 352
. Waste name: Other organic solids

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D018
. Waste name: BENZENE

Violation Status: No violations found

ORANGE CO. LUST:
Region: ORANGE
Facility Id: 90UT226
Released Substance: Gasoline-Automotive (motor gasoline and additives), leaded & unleaded
Date Closed: 04/01/1991
Record ID: RO0002386

CERS HAZ WASTE:
Site ID: 18445
CERS ID: 10441648
CERS Description: Hazardous Waste Generator

Violations:
Site ID: 18445
Site Name: Chevron Station #98976/1474
Violation Date: 08-28-2014

CHEVRON 98976 (Continued) **1006805187**

Citation: 23 CCR 16 2636(f)(1) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2636(f)(1)
Violation Description: Failure of the double wall pressurized piping in the turbine sump to be continuously monitored with a system that activates an audible and visual alarm or restricts or stops flow at dispenser when a leak is detected.
Violation Notes: Not reported
Violation Division: Orange County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 18445
Site Name: Chevron Station #98976/1474
Violation Date: 09-16-2013
Citation: 23 CCR 16 2636(f)(1) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2636(f)(1)
Violation Description: Failure of the double wall pressurized piping in the turbine sump to be continuously monitored with a system that activates an audible and visual alarm or restricts or stops flow at dispenser when a leak is detected.
Violation Notes: Not reported
Violation Division: Orange County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 18445
Site Name: Chevron Station #98976/1474
Violation Date: 08-01-2016
Citation: HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple
Violation Description: Business Plan Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 08/09/2016. Contact phone number for local agency was incorrect.
Violation Division: Fullerton City Fire Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 18445
Site Name: Chevron Station #98976/1474
Violation Date: 08-01-2016
Citation: 23 CCR 16 2636(f)(1) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2636(f)(1)
Violation Description: Failure of the double-walled pressurized piping to be continuously monitored with a system that activates an audible and visual alarm or stops flow at the dispenser when a leak is detected.
Violation Notes: Returned to compliance on 08/04/2016. 87 STP sump failed testing. Replaced and retesting witnessed by this agency.
Violation Division: Fullerton City Fire Department
Violation Program: UST
Violation Source: CERS

Evaluation:
Eval General Type: Other/Unknown
Eval Date: 06-10-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: CERS 2016 - BA/OW pgs Accepted

CHEVRON 98976 (Continued) **1006805187**

Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-31-2017
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	No violations observed.
Eval Division:	Fullerton City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-31-2017
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	No violations observed.
Eval Division:	Fullerton City Fire Department
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-01-2016
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Monitor Certification performed this date.
Eval Division:	Fullerton City Fire Department
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	07-15-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Not reported
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-01-2016
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Fullerton City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-12-2015
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Monitor certification performed this date. No violations observed.
Eval Division:	Fullerton City Fire Department
Eval Program:	UST
Eval Source:	CERS

CHEVRON 98976 (Continued) **1006805187**

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-12-2015
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	No violations observed.
Eval Division:	Fullerton City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-23-2018
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	ANNUAL MONITOR CERTIFICATION OBSERVED THIS DAY. NO VIOLATIONS.
Eval Division:	Fullerton City Fire Department
Eval Program:	UST
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-23-2018
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	NO VIOLATIONS.
Eval Division:	Fullerton City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	06-18-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	CERS 2016 - BA/OW
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	06-21-2016
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	On site for the triennial Hazardous Waste (HW) inspection. Permission to inspect granted by Chevron/Patel. The facility is a Small Quantity Generator (SQG) and must have the HW hauled away every 6-9 months. Currently they are on a 6 month cycle. Facility has an HMBEP on file with the FFD. HW drums are stored closed and properly labeled. Dumpster and perimeter inspected and no HW found. Manifests on site and complete. EPA ID # is correct.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	08-04-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Reinspection to witness retest of 87 STP sensor.
Eval Division:	Fullerton City Fire Department

CHEVRON 98976 (Continued) **1006805187**

Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-28-2014
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	FAILURE TO MONITOR THE TANK SYSTEM USING THE METHOD SPECIFIED ON THE PERMIT
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	09-16-2013
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Annual disclosure no violation
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	09-16-2013
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	FAILURE TO MONITOR THE TANK SYSTEM USING THE METHOD SPECIFIED ON THE PERMIT
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS

Enforcement Action:

Site ID:	18445
Site Name:	Chevron Station #98976/1474
Site Address:	2961 YORBA LINDA BLVD
Site City:	FULLERTON
Site Zip:	92831
Enf Action Date:	09-16-2013
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	Orange County Environmental Health
Enf Action Program:	UST
Enf Action Source:	CERS

Coordinates:

Site ID:	18445
Facility Name:	Chevron Station #98976/1474
Env Int Type Code:	HWG
Program ID:	10441648
Coord Name:	Not reported
Ref Point Type Desc:	Center of a facility or station.
Latitude:	33.889440
Longitude:	-117.874860

CHEVRON 98976 (Continued) **1006805187**

Affiliation:

Affiliation Type Desc:	Property Owner
Entity Name:	2961 YORBA LINDA BLVD LLC
Entity Title:	Not reported
Affiliation Address:	6258 TWIN LAKE DR
Affiliation City:	SAN DIEGO
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92119
Affiliation Phone:	(619) 465-1181

Affiliation Type Desc:	CUPA District
Entity Name:	Orange County Env Health
Entity Title:	Not reported
Affiliation Address:	1241 East Dyer RoadSuite 120
Affiliation City:	Santa Ana
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92705-5611
Affiliation Phone:	(714) 433-6000

Affiliation Type Desc:	Environmental Contact
Entity Name:	CHEVRON PRODUCTS COMPANY (A DIVISION OF CHEVRON U.S.A. INC.)
Entity Title:	Not reported
Affiliation Address:	P.O. BOX 6004, ATTN: PERMIT DESK
Affiliation City:	SAN RAMON
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94583
Affiliation Phone:	Not reported

Affiliation Type Desc:	Parent Corporation
Entity Name:	CHEVRON PRODUCTS COMPANY (A DIVISION OF CHEVRON U.S.A. INC.)
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	UST Property Owner Name
Entity Name:	2961 YORBA LINDA BLVD LLC
Entity Title:	Not reported
Affiliation Address:	6258 TWIN LAKE DR
Affiliation City:	SAN DIEGO
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92119
Affiliation Phone:	(619) 465-1181

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	P.O. BOX 6004, ATTN: PERMIT DESK
Affiliation City:	SAN RAMON
Affiliation State:	CA

CHEVRON 98976 (Continued) **1006805187**

Affiliation Country:	Not reported
Affiliation Zip:	94583
Affiliation Phone:	Not reported

Affiliation Type Desc:	Operator
Entity Name:	Chevron Station #98976/1474
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(714) 792-3825

Affiliation Type Desc:	UST Tank Owner
Entity Name:	CHEVRON PRODUCTS COMPANY (A DIVISION OF CHEVRON U.S.A. INC.)
Entity Title:	Not reported
Affiliation Address:	P.O. BOX 6004, ATTN: PERMIT DESK
Affiliation City:	SAN RAMON
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	94583
Affiliation Phone:	(925) 842-9002

Affiliation Type Desc:	Document Preparer
Entity Name:	Andrea Vilchis
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Identification Signer
Entity Name:	Andrea Vilchis
Entity Title:	RETAIL HES SPECIALIST
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Legal Owner
Entity Name:	CHEVRON PRODUCTS COMPANY (A DIVISION OF CHEVRON U.S.A. INC.)
Entity Title:	Not reported
Affiliation Address:	P.O. BOX 6004, ATTN: PERMIT DESK
Affiliation City:	SAN RAMON
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	94583
Affiliation Phone:	(925) 842-9002

Affiliation Type Desc:	UST Permit Applicant
Entity Name:	CHARLES BITTLE - 5/23/2016
Entity Title:	RETAIL HES

CHEVRON 98976 (Continued) **1006805187**

Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(925) 842-9002
Affiliation Type Desc:	UST Tank Operator
Entity Name:	CHEVRON PRODUCTS COMPANY (A DIVISION OF CHEVRON U.S.A. INC.)
Entity Title:	Not reported
Affiliation Address:	P.O. BOX 6004, ATTN: PERMIT DESK
Affiliation City:	SAN RAMON
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	94583
Affiliation Phone:	(925) 842-9002

CERS TANKS:

Facility Name:	CHEVRON STATION #98976/1474
Site ID:	18445
CERS ID:	10441648
CERS Description:	Underground Storage Tank

Violations:

Site ID:	18445
Site Name:	Chevron Station #98976/1474
Violation Date:	08-28-2014
Citation:	23 CCR 16 2636(f)(1) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2636(f)(1)
Violation Description:	Failure of the double wall pressurized piping in the turbine sump to be continuously monitored with a system that activates an audible and visual alarm or restricts or stops flow at dispenser when a leak is detected.
Violation Notes:	Not reported
Violation Division:	Orange County Environmental Health
Violation Program:	UST
Violation Source:	CERS
Site ID:	18445
Site Name:	Chevron Station #98976/1474
Violation Date:	09-16-2013
Citation:	23 CCR 16 2636(f)(1) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2636(f)(1)
Violation Description:	Failure of the double wall pressurized piping in the turbine sump to be continuously monitored with a system that activates an audible and visual alarm or restricts or stops flow at dispenser when a leak is detected.
Violation Notes:	Not reported
Violation Division:	Orange County Environmental Health
Violation Program:	UST
Violation Source:	CERS
Site ID:	18445
Site Name:	Chevron Station #98976/1474
Violation Date:	08-01-2016
Citation:	HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95,

CHEVRON 98976 (Continued) **1006805187**

	Section(s) Multiple
Violation Description:	Business Plan Program - Administration/Documentation - General
Violation Notes:	Returned to compliance on 08/09/2016. Contact phone number for local agency was incorrect.
Violation Division:	Fullerton City Fire Department
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	18445
Site Name:	Chevron Station #98976/1474
Violation Date:	08-01-2016
Citation:	23 CCR 16 2636(f)(1) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2636(f)(1)
Violation Description:	Failure of the double-walled pressurized piping to be continuously monitored with a system that activates an audible and visual alarm or stops flow at the dispenser when a leak is detected.
Violation Notes:	Returned to compliance on 08/04/2016. 87 STP sump failed testing. Replaced and retesting witnessed by this agency.
Violation Division:	Fullerton City Fire Department
Violation Program:	UST
Violation Source:	CERS

Evaluation:

Eval General Type:	Other/Unknown
Eval Date:	06-10-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	CERS 2016 - BA/OW pgs Accepted
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-31-2017
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	No violations observed.
Eval Division:	Fullerton City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-31-2017
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	No violations observed.
Eval Division:	Fullerton City Fire Department
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-01-2016
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Monitor Certification performed this date.
Eval Division:	Fullerton City Fire Department
Eval Program:	UST

CHEVRON 98976 (Continued) **1006805187**

Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	07-15-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Not reported
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-01-2016
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Fullerton City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-12-2015
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Monitor certification performed this date. No violations observed.
Eval Division:	Fullerton City Fire Department
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-12-2015
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	No violations observed.
Eval Division:	Fullerton City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-23-2018
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	ANNUAL MONITOR CERTIFICATION OBSERVED THIS DAY. NO VIOLATIONS.
Eval Division:	Fullerton City Fire Department
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-23-2018
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	NO VIOLATIONS.
Eval Division:	Fullerton City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown

CHEVRON 98976 (Continued) **1006805187**

Eval Date:	06-18-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	CERS 2016 - BA/OW
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	06-21-2016
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	On site for the triennial Hazardous Waste (HW) inspection. Permission to inspect granted by Chevron/Patel. The facility is a Small Quantity Generator (SQG) and must have the HW hauled away every 6-9 months. Currently they are on a 6 month cycle. Facility has an HMBEP on file with the FFD. HW drums are stored closed and properly labeled. Dumpster and perimeter inspected and no HW found. Manifests on site and complete. EPA ID # is correct.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	08-04-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Reinspection to witness retest of 87 STP sensor.
Eval Division:	Fullerton City Fire Department
Eval Program:	UST
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-28-2014
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	FAILURE TO MONITOR THE TANK SYSTEM USING THE METHOD SPECIFIED ON THE PERMIT
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	09-16-2013
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Annual disclosure no violation
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	09-16-2013
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	FAILURE TO MONITOR THE TANK SYSTEM USING THE METHOD SPECIFIED ON THE PERMIT

CHEVRON 98976 (Continued) **1006805187**

Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS

Enforcement Action:

Site ID:	18445
Site Name:	Chevron Station #98976/1474
Site Address:	2961 YORBA LINDA BLVD
Site City:	FULLERTON
Site Zip:	92831
Enf Action Date:	09-16-2013
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	Orange County Environmental Health
Enf Action Program:	UST
Enf Action Source:	CERS

Coordinates:

Site ID:	18445
Facility Name:	Chevron Station #98976/1474
Env Int Type Code:	HWG
Program ID:	10441648
Coord Name:	Not reported
Ref Point Type Desc:	Center of a facility or station.
Latitude:	33.889440
Longitude:	-117.874860

Affiliation:

Affiliation Type Desc:	Property Owner
Entity Name:	2961 YORBA LINDA BLVD LLC
Entity Title:	Not reported
Affiliation Address:	6258 TWIN LAKE DR
Affiliation City:	SAN DIEGO
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92119
Affiliation Phone:	(619) 465-1181

Affiliation Type Desc:	CUPA District
Entity Name:	Orange County Env Health
Entity Title:	Not reported
Affiliation Address:	1241 East Dyer RoadSuite 120
Affiliation City:	Santa Ana
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92705-5611
Affiliation Phone:	(714) 433-6000

Affiliation Type Desc:	Environmental Contact
Entity Name:	CHEVRON PRODUCTS COMPANY (A DIVISION OF CHEVRON U.S.A. INC.)
Entity Title:	Not reported
Affiliation Address:	P.O. BOX 6004, ATTN: PERMIT DESK
Affiliation City:	SAN RAMON
Affiliation State:	CA
Affiliation Country:	Not reported

CHEVRON 98976 (Continued) **1006805187**

Affiliation Zip:	94583
Affiliation Phone:	Not reported
Affiliation Type Desc:	Parent Corporation
Entity Name:	CHEVRON PRODUCTS COMPANY (A DIVISION OF CHEVRON U.S.A. INC.)
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	UST Property Owner Name
Entity Name:	2961 YORBA LINDA BLVD LLC
Entity Title:	Not reported
Affiliation Address:	6258 TWIN LAKE DR
Affiliation City:	SAN DIEGO
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92119
Affiliation Phone:	(619) 465-1181
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	P.O. BOX 6004, ATTN: PERMIT DESK
Affiliation City:	SAN RAMON
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94583
Affiliation Phone:	Not reported
Affiliation Type Desc:	Operator
Entity Name:	Chevron Station #98976/1474
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(714) 792-3825
Affiliation Type Desc:	UST Tank Owner
Entity Name:	CHEVRON PRODUCTS COMPANY (A DIVISION OF CHEVRON U.S.A. INC.)
Entity Title:	Not reported
Affiliation Address:	P.O. BOX 6004, ATTN: PERMIT DESK
Affiliation City:	SAN RAMON
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	94583
Affiliation Phone:	(925) 842-9002
Affiliation Type Desc:	Document Preparer
Entity Name:	Andrea Vilchis
Entity Title:	Not reported
Affiliation Address:	Not reported

CHEVRON 98976 (Continued) **1006805187**

Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Identification Signer
Entity Name:	Andrea Vilchis
Entity Title:	RETAIL HES SPECIALIST
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Legal Owner
Entity Name:	CHEVRON PRODUCTS COMPANY (A DIVISION OF CHEVRON U.S.A. INC.)
Entity Title:	Not reported
Affiliation Address:	P.O. BOX 6004, ATTN: PERMIT DESK
Affiliation City:	SAN RAMON
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	94583
Affiliation Phone:	(925) 842-9002

Affiliation Type Desc:	UST Permit Applicant
Entity Name:	CHARLES BITTLE - 5/23/2016
Entity Title:	RETAIL HES
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(925) 842-9002

Affiliation Type Desc:	UST Tank Operator
Entity Name:	CHEVRON PRODUCTS COMPANY (A DIVISION OF CHEVRON U.S.A. INC.)
Entity Title:	Not reported
Affiliation Address:	P.O. BOX 6004, ATTN: PERMIT DESK
Affiliation City:	SAN RAMON
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	94583
Affiliation Phone:	(925) 842-9002

FINDS:

Registry ID: 110013291721

Environmental Interest/Information System
California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) provides California with information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.

CHEVRON 98976 (Continued) **1006805187**

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

STATE MASTER

HAZARDOUS WASTE BIENNIAL REPORTER

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1006805187
Registry ID:	110013291721
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110013291721

HAZNET:

Site Name:	CHEVRON STATION NO 98976
Year:	2017
GEPAID:	CAR000124396
Contact:	KWAME AWUKU
Telephone:	8773866044
Mailing Name:	Not reported
Mailing Address:	PO BOX 6004
Mailing City,St,Zip:	SAN RAMON, CA 945830000
Gen County:	Orange
TSD EPA ID:	CAD044429835
TSD County:	Los Angeles
Tons:	0.1225
CA Waste Code:	352-Other organic solids
Method:	H141-Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County:	Orange

Site Name:	CHEVRON STATION NO 98976
Year:	2017
GEPAID:	CAR000124396
Contact:	KWAME AWUKU
Telephone:	8773866044
Mailing Name:	Not reported
Mailing Address:	PO BOX 6004
Mailing City,St,Zip:	SAN RAMON, CA 945830000
Gen County:	Orange
TSD EPA ID:	CAD044429835
TSD County:	Los Angeles
Tons:	0.02
CA Waste Code:	134-Aqueous solution with total organic residues less than 10 percent
Method:	H141-Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County:	Orange

Site Name: CHEVRON STATION NO 98976

CHEVRON 98976 (Continued) **1006805187**

Year: 2016
GEPAID: CAR000124396
Contact: KWAME AWUKU
Telephone: 8773866044
Mailing Name: Not reported
Mailing Address: PO BOX 6004
Mailing City,St,Zip: SAN RAMON, CA 945830000
Gen County: Orange
TSD EPA ID: CAD044429835
TSD County: Los Angeles
Tons: 0.041
CA Waste Code: 134-Aqueous solution with total organic residues less than 10 percent
Method: H141-Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County: Orange

Site Name: CHEVRON STATION NO 98976
Year: 2016
GEPAID: CAR000124396
Contact: KWAME AWUKU
Telephone: 8773866044
Mailing Name: Not reported
Mailing Address: PO BOX 6004
Mailing City,St,Zip: SAN RAMON, CA 945830000
Gen County: Orange
TSD EPA ID: TXD055141378
TSD County: 99
Tons: 0.009
CA Waste Code: -
Method: H040-Incineration--Thermal Destruction Other Than Use As A Fuel
Facility County: Orange

Site Name: CHEVRON STATION NO 98976
Year: 2016
GEPAID: CAR000124396
Contact: KWAME AWUKU
Telephone: 8773866044
Mailing Name: Not reported
Mailing Address: PO BOX 6004
Mailing City,St,Zip: SAN RAMON, CA 945830000
Gen County: Orange
TSD EPA ID: CAD044429835
TSD County: Los Angeles
Tons: 0.14
CA Waste Code: 352-Other organic solids
Method: H141-Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County: Orange

Click this hyperlink while viewing on your computer to access
41 additional CA_HAZNET: record(s) in the EDR Site Report.

CERS TANKS:
Site ID: 18445
CERS ID: 10441648
Site Name: CHEVRON STATION #98976/1474
CERS Description: Chemical Storage Facilities

CHEVRON 98976 (Continued) **1006805187**

Violations:

Site ID:	18445
Site Name:	Chevron Station #98976/1474
Violation Date:	08-28-2014
Citation:	23 CCR 16 2636(f)(1) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2636(f)(1)
Violation Description:	Failure of the double wall pressurized piping in the turbine sump to be continuously monitored with a system that activates an audible and visual alarm or restricts or stops flow at dispenser when a leak is detected.
Violation Notes:	Not reported
Violation Division:	Orange County Environmental Health
Violation Program:	UST
Violation Source:	CERS

Site ID:	18445
Site Name:	Chevron Station #98976/1474
Violation Date:	09-16-2013
Citation:	23 CCR 16 2636(f)(1) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2636(f)(1)
Violation Description:	Failure of the double wall pressurized piping in the turbine sump to be continuously monitored with a system that activates an audible and visual alarm or restricts or stops flow at dispenser when a leak is detected.
Violation Notes:	Not reported
Violation Division:	Orange County Environmental Health
Violation Program:	UST
Violation Source:	CERS

Site ID:	18445
Site Name:	Chevron Station #98976/1474
Violation Date:	08-01-2016
Citation:	HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple
Violation Description:	Business Plan Program - Administration/Documentation - General
Violation Notes:	Returned to compliance on 08/09/2016. Contact phone number for local agency was incorrect.
Violation Division:	Fullerton City Fire Department
Violation Program:	HMRRP
Violation Source:	CERS

Site ID:	18445
Site Name:	Chevron Station #98976/1474
Violation Date:	08-01-2016
Citation:	23 CCR 16 2636(f)(1) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2636(f)(1)
Violation Description:	Failure of the double-walled pressurized piping to be continuously monitored with a system that activates an audible and visual alarm or stops flow at the dispenser when a leak is detected.
Violation Notes:	Returned to compliance on 08/04/2016. 87 STP sump failed testing. Replaced and retesting witnessed by this agency.
Violation Division:	Fullerton City Fire Department
Violation Program:	UST
Violation Source:	CERS

Evaluation:

CHEVRON 98976 (Continued) **1006805187**

Eval General Type:	Other/Unknown
Eval Date:	06-10-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	CERS 2016 - BA/OW pgs Accepted
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-31-2017
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	No violations observed.
Eval Division:	Fullerton City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-31-2017
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	No violations observed.
Eval Division:	Fullerton City Fire Department
Eval Program:	UST
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-01-2016
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Monitor Certification performed this date.
Eval Division:	Fullerton City Fire Department
Eval Program:	UST
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	07-15-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Not reported
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-01-2016
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Fullerton City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-12-2015
Violations Found:	No

CHEVRON 98976 (Continued) **1006805187**

Eval Type:	Routine done by local agency
Eval Notes:	Monitor certification performed this date. No violations observed.
Eval Division:	Fullerton City Fire Department
Eval Program:	UST
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-12-2015
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	No violations observed.
Eval Division:	Fullerton City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-23-2018
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	ANNUAL MONITOR CERTIFICATION OBSERVED THIS DAY. NO VIOLATIONS.
Eval Division:	Fullerton City Fire Department
Eval Program:	UST
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-23-2018
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	NO VIOLATIONS.
Eval Division:	Fullerton City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	06-18-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	CERS 2016 - BA/OW
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	06-21-2016
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	On site for the triennial Hazardous Waste (HW) inspection. Permission to inspect granted by Chevron/Patel. The facility is a Small Quantity Generator (SQG) and must have the HW hauled away every 6-9 months. Currently they are on a 6 month cycle. Facility has an HMBEP on file with the FFD. HW drums are stored closed and properly labeled. Dumpster and perimeter inspected and no HW found. Manifests on site and complete. EPA ID # is correct.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS

CHEVRON 98976 (Continued) **1006805187**

Eval General Type:	Other/Unknown
Eval Date:	08-04-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Reinspection to witness retest of 87 STP sensor.
Eval Division:	Fullerton City Fire Department
Eval Program:	UST
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-28-2014
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	FAILURE TO MONITOR THE TANK SYSTEM USING THE METHOD SPECIFIED ON THE PERMIT
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	09-16-2013
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Annual disclosure no violation
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	09-16-2013
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	FAILURE TO MONITOR THE TANK SYSTEM USING THE METHOD SPECIFIED ON THE PERMIT
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS

Enforcement Action:

Site ID:	18445
Site Name:	Chevron Station #98976/1474
Site Address:	2961 YORBA LINDA BLVD
Site City:	FULLERTON
Site Zip:	92831
Enf Action Date:	09-16-2013
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	Orange County Environmental Health
Enf Action Program:	UST
Enf Action Source:	CERS

Coordinates:

Site ID:	18445
Facility Name:	Chevron Station #98976/1474
Env Int Type Code:	HWG

CHEVRON 98976 (Continued) **1006805187**

Program ID: 10441648
Coord Name: Not reported
Ref Point Type Desc: Center of a facility or station.
Latitude: 33.889440
Longitude: -117.874860

Affiliation:
Affiliation Type Desc: Property Owner
Entity Name: 2961 YORBA LINDA BLVD LLC
Entity Title: Not reported
Affiliation Address: 6258 TWIN LAKE DR
Affiliation City: SAN DIEGO
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 92119
Affiliation Phone: (619) 465-1181

Affiliation Type Desc: CUPA District
Entity Name: Orange County Env Health
Entity Title: Not reported
Affiliation Address: 1241 East Dyer RoadSuite 120
Affiliation City: Santa Ana
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92705-5611
Affiliation Phone: (714) 433-6000

Affiliation Type Desc: Environmental Contact
Entity Name: CHEVRON PRODUCTS COMPANY (A DIVISION OF CHEVRON U.S.A. INC.)
Entity Title: Not reported
Affiliation Address: P.O. BOX 6004, ATTN: PERMIT DESK
Affiliation City: SAN RAMON
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 94583
Affiliation Phone: Not reported

Affiliation Type Desc: Parent Corporation
Entity Name: CHEVRON PRODUCTS COMPANY (A DIVISION OF CHEVRON U.S.A. INC.)
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: UST Property Owner Name
Entity Name: 2961 YORBA LINDA BLVD LLC
Entity Title: Not reported
Affiliation Address: 6258 TWIN LAKE DR
Affiliation City: SAN DIEGO
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 92119
Affiliation Phone: (619) 465-1181

CHEVRON 98976 (Continued) **1006805187**

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	P.O. BOX 6004, ATTN: PERMIT DESK
Affiliation City:	SAN RAMON
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	94583
Affiliation Phone:	Not reported

Affiliation Type Desc:	Operator
Entity Name:	Chevron Station #98976/1474
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(714) 792-3825

Affiliation Type Desc:	UST Tank Owner
Entity Name:	CHEVRON PRODUCTS COMPANY (A DIVISION OF CHEVRON U.S.A. INC.)
Entity Title:	Not reported
Affiliation Address:	P.O. BOX 6004, ATTN: PERMIT DESK
Affiliation City:	SAN RAMON
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	94583
Affiliation Phone:	(925) 842-9002

Affiliation Type Desc:	Document Preparer
Entity Name:	Andrea Vilchis
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Identification Signer
Entity Name:	Andrea Vilchis
Entity Title:	RETAIL HES SPECIALIST
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Legal Owner
Entity Name:	CHEVRON PRODUCTS COMPANY (A DIVISION OF CHEVRON U.S.A. INC.)
Entity Title:	Not reported
Affiliation Address:	P.O. BOX 6004, ATTN: PERMIT DESK
Affiliation City:	SAN RAMON
Affiliation State:	CA
Affiliation Country:	United States

CHEVRON 98976 (Continued) **1006805187**

Affiliation Zip: 94583
Affiliation Phone: (925) 842-9002

Affiliation Type Desc: UST Permit Applicant
Entity Name: CHARLES BITTLE - 5/23/2016
Entity Title: RETAIL HES
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (925) 842-9002

Affiliation Type Desc: UST Tank Operator
Entity Name: CHEVRON PRODUCTS COMPANY (A DIVISION OF CHEVRON U.S.A. INC.)
Entity Title: Not reported
Affiliation Address: P.O. BOX 6004, ATTN: PERMIT DESK
Affiliation City: SAN RAMON
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 94583
Affiliation Phone: (925) 842-9002

R115
NE
1/8-1/4
0.234 mi.
1238 ft.

CHEVRON STATION #98976/1474 **CA UST** **U003938830**
2961 YORBA LINDA BLVD **N/A**
FULLERTON, CA 92831

Site 6 of 7 in cluster R

Relative:
Higher

Actual:
277 ft.

UST:
Facility ID: FA0050794
Permitting Agency: Orange County Environmental Health
Latitude: 33.88944
Longitude: -117.87486

Facility ID: 2095
Permitting Agency: FULLERTON, CITY OF
Latitude: 33.890928
Longitude: -117.8735137

S116
NE
1/8-1/4
0.235 mi.
1241 ft.

TARGET STORE NO 0293 **CA CERS HAZ WASTE** **S113803808**
2920 YORBA LINDA BLVD **CA HAZNET** **N/A**
FULLERTON, CA 92831 **CA CERS**

Site 1 of 4 in cluster S

Relative:
Higher

Actual:
273 ft.

CERS HAZ WASTE:
Site ID: 403517
CERS ID: 10400809
CERS Description: Hazardous Waste Generator

Evaluation:
Eval General Type: Other/Unknown
Eval Date: 05-12-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency

TARGET STORE NO 0293 (Continued) **S113803808**

Eval Notes:	Database review shows that a HW violation was not abated in EC. All violations have been abated but it still shows up as an outstanding violation. No outstanding violations.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	06-10-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Review of "open violations" showed "no manifest" violation listed on the 8-28-2008 inspection. This is a computer "glitch". the violation was abated 8-20-2009 but still shows as an "outstanding violation". FYI.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	11-19-2013
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Violation listed on the 8-28-08 inspection still shows in EC as an outstanding violation. It was corrected with the 8-20-09 inspection but cannot be abated for unknown reasons. Violation is closed, no further work needed.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	04-18-2016
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	On site for the triennial Hazardous Waste (HW) inspection. Permission to inspect granted by Traget/Kelsey. This business generates off spec retail HWs. Facility is a small quantity generator (SQG) and must have the HW hauled away every 6 months. They are currently on a 90 day haul away cycle. EPA ID # is OK. Business emergency plan is on file with FFD and OK. Quarterly HW training. All HW is stored in closed and properly labeled plastic boxes. Off spec retail goods are cataloged via scan guns that direct staff how to dispose. Municipal; trash and perimeter are clean. No HW. No violations.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	09-30-2013
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	File review for outstanding violations. All violations have been abated.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS

TARGET STORE NO 0293 (Continued) **S113803808**

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	02-14-2017
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	No violations observed.
Eval Division:	Fullerton City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	05-21-2015
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Facility provided hazardous waste manifest for viewing on site. No violations noted.
Eval Division:	Fullerton City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	06-11-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	CERS 2016 - Accept BA/OW pg
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	11-26-2013
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	NO VIOLATIONS OBSERVED
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	12-14-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	CERS review: accept BA/OW page - update to new EPA ID CAR000219915
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS

Affiliation:

Affiliation Type Desc:	Document Preparer
Entity Name:	Nathan White
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

TARGET STORE NO 0293 (Continued) **S113803808**

Affiliation Type Desc:	Identification Signer
Entity Name:	Steve Musser
Entity Title:	Director of Compliance
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Legal Owner
Entity Name:	Target Corporation
Entity Title:	Not reported
Affiliation Address:	PO Box 111
Affiliation City:	Minneapolis
Affiliation State:	MN
Affiliation Country:	United States
Affiliation Zip:	55440-0111
Affiliation Phone:	(800) 587-2228

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	PO Box 111
Affiliation City:	Minneapolis
Affiliation State:	MN
Affiliation Country:	Not reported
Affiliation Zip:	55440-0111
Affiliation Phone:	Not reported

Affiliation Type Desc:	Operator
Entity Name:	Target Corporation
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(800) 587-2228

Affiliation Type Desc:	CUPA District
Entity Name:	Orange County Env Health
Entity Title:	Not reported
Affiliation Address:	1241 East Dyer RoadSuite 120
Affiliation City:	Santa Ana
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92705-5611
Affiliation Phone:	(714) 433-6000

Affiliation Type Desc:	Environmental Contact
Entity Name:	Permits, Operations & Compliance
Entity Title:	Not reported
Affiliation Address:	PO Box 111
Affiliation City:	Minneapolis
Affiliation State:	MN
Affiliation Country:	Not reported

TARGET STORE NO 0293 (Continued) **S113803808**

Affiliation Zip:	55440-0111
Affiliation Phone:	Not reported
Affiliation Type Desc:	Parent Corporation
Entity Name:	Target Corporate Office Headquarters
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

HAZNET:

Site Name:	TARGET STORE T0293
Year:	2017
GEPAID:	CAR000219915
Contact:	STEVE MUSSER
Telephone:	8005872228
Mailing Name:	Not reported
Mailing Address:	PO BOX 111
Mailing City,St,Zip:	MINNEAPOLIS, MN 554400000
Gen County:	Orange
TSD EPA ID:	TXD982290140
TSD County:	99
Tons:	0.002
CA Waste Code:	141-Off-specification, aged or surplus inorganics
Method:	H129-Other Treatment
Facility County:	Orange
Site Name:	TARGET STORE T0293
Year:	2017
GEPAID:	CAR000219915
Contact:	STEVE MUSSER
Telephone:	8005872228
Mailing Name:	Not reported
Mailing Address:	PO BOX 111
Mailing City,St,Zip:	MINNEAPOLIS, MN 554400000
Gen County:	Orange
TSD EPA ID:	CAD044429835
TSD County:	Los Angeles
Tons:	0.1935
CA Waste Code:	122-Alkaline solution without metals pH >= 12.5
Method:	H141-Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County:	Orange
Site Name:	TARGET STORE T0293
Year:	2017
GEPAID:	CAR000219915
Contact:	STEVE MUSSER
Telephone:	8005872228
Mailing Name:	Not reported
Mailing Address:	PO BOX 111
Mailing City,St,Zip:	MINNEAPOLIS, MN 554400000
Gen County:	Orange

TARGET STORE NO 0293 (Continued) **S113803808**

TSD EPA ID: CAD044429835
TSD County: Los Angeles
Tons: 0.032
CA Waste Code: 141-Off-specification, aged or surplus inorganics
Method: H141-Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County: Orange

Site Name: TARGET STORE T0293
Year: 2017
GEPAID: CAR000219915
Contact: STEVE MUSSER
Telephone: 8005872228
Mailing Name: Not reported
Mailing Address: PO BOX 111
Mailing City,St,Zip: MINNEAPOLIS, MN 554400000
Gen County: Orange
TSD EPA ID: CAD044429835
TSD County: Los Angeles
Tons: 1.562
CA Waste Code: 331-Off-specification, aged or surplus organics
Method: H141-Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County: Orange

Site Name: TARGET STORE T0293
Year: 2017
GEPAID: CAR000219915
Contact: STEVE MUSSER
Telephone: 8005872228
Mailing Name: Not reported
Mailing Address: PO BOX 111
Mailing City,St,Zip: MINNEAPOLIS, MN 554400000
Gen County: Orange
TSD EPA ID: CAD044429835
TSD County: Los Angeles
Tons: Not reported
CA Waste Code: -
Method: H141-Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County: Orange

Click this hyperlink while viewing on your computer to access
37 additional CA_HAZNET: record(s) in the EDR Site Report.

CERS TANKS:
Site ID: 403517
CERS ID: 10400809
Site Name: TARGET T0293
CERS Description: Chemical Storage Facilities

Evaluation:
Eval General Type: Other/Unknown
Eval Date: 05-12-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Database review shows that a HW violation was not abated in EC. All

TARGET STORE NO 0293 (Continued) **S113803808**

violations have been abated but it still shows up as an outstanding violation. No outstanding violations.

Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 06-10-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Review of "open violations" showed "no manifest" violation listed on the 8-28-2008 inspection. This is a computer "glitch". the violation was abated 8-20-2009 but still shows as an "outstanding violation". FYI.
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 11-19-2013
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Violation listed on the 8-28-08 inspection still shows in EC as an outstanding violation. It was corrected with the 8-20-09 inspection but cannot be abated for unknown reasons. Violation is closed, no further work needed.
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-18-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: On site for the triennial Hazardous Waste (HW) inspection. Permission to inspect granted by Traget/Kelsey. This business generates off spec retail HWs. Facility is a small quantity generator (SQG) and must have the HW hauled away every 6 months. They are currently on a 90 day haul away cycle. EPA ID # is OK. Business emergency plan is on file with FFD and OK. Quarterly HW training. All HW is stored in closed and properly labeled plastic boxes. Off spec retail goods are cataloged via scan guns that direct staff how to dispose. Municipal; trash and perimeter are clean. No HW. No violations.
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 09-30-2013
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: File review for outstanding violations. All violations have been abated.
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

TARGET STORE NO 0293 (Continued) **S113803808**

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	02-14-2017
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	No violations observed.
Eval Division:	Fullerton City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	05-21-2015
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Facility provided hazardous waste manifest for viewing on site. No violations noted.
Eval Division:	Fullerton City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	06-11-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	CERS 2016 - Accept BA/OW pg
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	11-26-2013
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	NO VIOLATIONS OBSERVED
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	12-14-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	CERS review: accept BA/OW page - update to new EPA ID CAR000219915
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS

Affiliation:

Affiliation Type Desc:	Document Preparer
Entity Name:	Nathan White
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

TARGET STORE NO 0293 (Continued) **S113803808**

Affiliation Type Desc:	Identification Signer
Entity Name:	Steve Musser
Entity Title:	Director of Compliance
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Legal Owner
Entity Name:	Target Corporation
Entity Title:	Not reported
Affiliation Address:	PO Box 111
Affiliation City:	Minneapolis
Affiliation State:	MN
Affiliation Country:	United States
Affiliation Zip:	55440-0111
Affiliation Phone:	(800) 587-2228

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	PO Box 111
Affiliation City:	Minneapolis
Affiliation State:	MN
Affiliation Country:	Not reported
Affiliation Zip:	55440-0111
Affiliation Phone:	Not reported

Affiliation Type Desc:	Operator
Entity Name:	Target Corporation
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(800) 587-2228

Affiliation Type Desc:	CUPA District
Entity Name:	Orange County Env Health
Entity Title:	Not reported
Affiliation Address:	1241 East Dyer RoadSuite 120
Affiliation City:	Santa Ana
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92705-5611
Affiliation Phone:	(714) 433-6000

Affiliation Type Desc:	Environmental Contact
Entity Name:	Permits, Operations & Compliance
Entity Title:	Not reported
Affiliation Address:	PO Box 111
Affiliation City:	Minneapolis
Affiliation State:	MN
Affiliation Country:	Not reported

TARGET STORE NO 0293 (Continued) **S113803808**

Affiliation Zip:	55440-0111
Affiliation Phone:	Not reported
Affiliation Type Desc:	Parent Corporation
Entity Name:	Target Corporate Office Headquarters
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Site ID:	83148
CERS ID:	10165571
Site Name:	VERIZON WIRELESS: YORBA KRAMER
CERS Description:	Chemical Storage Facilities

Violations:

Site ID:	83148
Site Name:	Verizon Wireless: Yorba Kramer
Violation Date:	10-22-2013
Citation:	HSC 6.95 25505(a) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a)
Violation Description:	Owner/Operator failed to complete and/or submit a Hazardous Materials Business Plan when storing hazardous materials at or above the thresholds quantities of 55 gallons/500 lbs/200 cubic feet.
Violation Notes:	Not reported
Violation Division:	Orange County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS

Evaluation:

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	10-22-2013
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	UPLOAD TO ESUBMIT
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-09-2017
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	No violations observed
Eval Division:	Fullerton City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	05-26-2015
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	No violations.

TARGET STORE NO 0293 (Continued) **S113803808**

Eval Division: Fullerton City Fire Department
Eval Program: HMRRP
Eval Source: CERS

Enforcement Action:
Site ID: 83148
Site Name: Verizon Wireless: Yorba Kramer
Site Address: 2920 YORBA LINDA BOULEVARD
Site City: FULLERTON
Site Zip: 92831
Enf Action Date: 10-22-2013
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Orange County Environmental Health
Enf Action Program: HMRRP
Enf Action Source: CERS

Affiliation:
Affiliation Type Desc: Environmental Contact
Entity Name: Environmental Compliance
Entity Title: Not reported
Affiliation Address: 15505 Sand Canyon Avenue, MS D-104
Affiliation City: Irvine
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92618
Affiliation Phone: Not reported

Affiliation Type Desc: Legal Owner
Entity Name: Verizon Wireless
Entity Title: Not reported
Affiliation Address: 15505 Sand Canyon Avenue, MS D-104
Affiliation City: Irvine
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 92618
Affiliation Phone: (949) 286-7000

Affiliation Type Desc: Parent Corporation
Entity Name: Verizon Wireless [Southern California]
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Identification Signer
Entity Name: Myrna Allende
Entity Title: Regulatory Specialist
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported

TARGET STORE NO 0293 (Continued) **S113803808**

Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	CUPA District
Entity Name:	Orange County Env Health
Entity Title:	Not reported
Affiliation Address:	1241 East Dyer RoadSuite 120
Affiliation City:	Santa Ana
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92705-5611
Affiliation Phone:	(714) 433-6000
Affiliation Type Desc:	Document Preparer
Entity Name:	Steve Skanderson, Stantec
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Operator
Entity Name:	Verizon Wireless
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(949) 286-7000
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	15505 Sand Canyon Avenue, MS D-104
Affiliation City:	Irvine
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92618
Affiliation Phone:	Not reported

S117 **FULLERTON RECYCLING CENTER** **CA SWRCY** **S108756189**
NE **2920 YORBA LINDA BLVD** **N/A**
1/8-1/4 **FULLERTON, CA 92831**
0.235 mi.
1241 ft. **Site 2 of 4 in cluster S**

Relative:
Higher

Actual:
273 ft.

SWRCY:

Reg Id:	26980
Cert Id:	RC13324
Mailing Address:	3249 W El Segundo Blvd
Mailing City:	Hawthorne
Mailing State:	CA
Mailing Zip Code:	90250
Website:	Not reported

FULLERTON RECYCLING CENTER (Continued) **S108756189**

Email:	Not reported
Phone Number:	(310) 978-9900
Rural:	N
Operation Begin Date:	07/17/2007
Aluminium:	Y
Glass:	Y
Plastic:	Y
Bimetal:	Y
Hours of Operation:	Mon - Sat 9:00 am - 4:45 pm, Closed 1:00 pm - 1:30 pm; Sun Closed
Organization ID:	31689
Organization Name:	E & M Recycling Company

S118 **T0293** **RCRA-LQG** **1014386718**
NE **2920 YORBA LINDA BLVD** **CAL000229726**
1/8-1/4 **FULLERTON, CA 92831**
0.235 mi.
1241 ft. **Site 3 of 4 in cluster S**

Relative:
Higher

Actual:
273 ft.

RCRA-LQG:

Date form received by agency:	05/19/2010
Facility name:	T0293
Facility address:	2920 YORBA LINDA BLVD FULLERTON, CA 92831
EPA ID:	CAL000229726
Mailing address:	P.O. BOX 111 MINNEAPOLIS, MN 55440
Contact:	JANNA ADAIR-POTTS
Contact address:	P.O. BOX 111 MINNEAPOLIS, MN 55440
Contact country:	US
Contact telephone:	800-587-2228
Contact email:	CORPORATE.COMPIANCE@TARGET.COM
EPA Region:	09
Classification:	Large Quantity Generator
Description:	Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Owner/Operator Summary:

Owner/operator name:	TARGET CORPORATION
Owner/operator address:	NICOLLET MALL MINNEAPOLIS, MN 55403
Owner/operator country:	Not reported
Owner/operator telephone:	800-587-2228
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private

T0293 (Continued) **1014386718**

Owner/Operator Type: Owner
Owner/Op start date: 07/22/1987
Owner/Op end date: Not reported

Owner/operator name: TARGET CORPORATION
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 07/22/1987
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Hazardous Waste Summary:

. Waste code: 123
. Waste name: Unspecified alkaline solution

. Waste code: 141
. Waste name: Off-specification, aged, or surplus inorganics

. Waste code: 214
. Waste name: Unspecified solvent mixture

. Waste code: 311
. Waste name: Pharmaceutical waste

. Waste code: 331
. Waste name: Off-specification, aged, or surplus organics

. Waste code: 791
. Waste name: Liquids with pH < 2

. Waste code: D001
. Waste name: IGNITABLE WASTE

T0293 (Continued) **1014386718**

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D004
. Waste name: ARSENIC

. Waste code: D005
. Waste name: BARIUM

. Waste code: D008
. Waste name: LEAD

. Waste code: D035
. Waste name: METHYL ETHYL KETONE

. Waste code: P001
. Waste name: 2H-1-BENZOPYRAN-2-ONE, 4-HYDROXY-3-(3-OXO-1-PHENYLBUTYL)-, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3% (OR) WARFARIN, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3%

. Waste code: P046
. Waste name: ALPHA,ALPHA-DIMETHYLPHENETHYLAMINE (OR) BENZENEETHANAMINE, ALPHA, ALPHA-DIMETHYL-

. Waste code: P075
. Waste name: NICOTINE, & SALTS (OR) PYRIDINE, 3-(1-METHYL-2-PYRROLIDINYL)-,(S)-, & SALTS

. Waste code: U002
. Waste name: 2-PROPANONE (I) (OR) ACETONE (I)

. Waste code: U240
. Waste name: 2,4-D, SALTS & ESTERS (OR) ACETIC ACID, (2,4-DICHLOROPHENOXY)-, SALTS & ESTERS (OR) DICHLOROPHENOXYACETIC ACID 2,4-D

Violation Status: No violations found

S119 **TARGET STORE T0293** **RCRA-SQG** **1014465510**
NE **2920 YORBA LINDA BLVD** **ECHO** **CAR000219915**
1/8-1/4 **FULLERTON, CA 92831**
0.235 mi.
1241 ft. **Site 4 of 4 in cluster S**

Relative: Higher
Actual: 273 ft.

RCRA-SQG:
Date form received by agency: 02/16/2016
Facility name: TARGET STORE T0293
Facility address: 2920 YORBA LINDA BLVD
FULLERTON, CA 92831
EPA ID: CAR000219915
Mailing address: PO BOX 111
MINNEAPOLIS, MN 55440
Contact: STEVE MUSSER
Contact address: PO BOX 111
MINNEAPOLIS, MN 55440
Contact country: US
Contact telephone: 800-587-2228
Contact email: POC@TARGET.COM
EPA Region: 09
Classification: Small Small Quantity Generator

TARGET STORE T0293 (Continued) **1014465510**

Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	TARGET CORPORATION
Owner/operator address:	PO BOX 111 MINNEAPOLIS, MN 55440
Owner/operator country:	US
Owner/operator telephone:	800-587-2228
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	07/22/1987
Owner/Op end date:	Not reported

Owner/operator name:	TARGET CORPORATION
Owner/operator address:	Not reported Not reported
Owner/operator country:	Not reported
Owner/operator telephone:	Not reported
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	07/22/1987
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Historical Generators:

Date form received by agency:	02/20/2015
Site name:	TARGET STORE T0293
Classification:	Small Quantity Generator

Date form received by agency:	04/11/2011

TARGET STORE T0293 (Continued) **1014465510**

Site name: TARGET STORE NO 0293
Classification: Small Quantity Generator

Hazardous Waste Summary:

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D003
. Waste name: REACTIVE WASTE

. Waste code: D004
. Waste name: ARSENIC

. Waste code: D005
. Waste name: BARIUM

. Waste code: D006
. Waste name: CADMIUM

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D008
. Waste name: LEAD

. Waste code: D009
. Waste name: MERCURY

. Waste code: D010
. Waste name: SELENIUM

. Waste code: D011
. Waste name: SILVER

. Waste code: D016
. Waste name: 2,4-D (2,4-DICHLOROPHENOXYACETIC ACID)

. Waste code: D018
. Waste name: BENZENE

. Waste code: D024
. Waste name: M-CRESOL

. Waste code: D026
. Waste name: CRESOL

. Waste code: D028
. Waste name: 1,2-DICHLOROETHANE

. Waste code: D035
. Waste name: METHYL ETHYL KETONE

. Waste code: P001

TARGET STORE T0293 (Continued) **1014465510**

. Waste name: 2H-1-BENZOPYRAN-2-ONE, 4-HYDROXY-3-(3-OXO-1-PHENYLBUTYL)-, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3% (OR) WARFARIN, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3%

. Waste code: P042
. Waste name: 1,2-BENZENEDIOL, 4-[1-HYDROXY-2-(METHYLAMINO)ETHYL]-, (R)- (OR) EPINEPHRINE

. Waste code: P046
. Waste name: ALPHA,ALPHA-DIMETHYLPHENETHYLAMINE (OR) BENZENEETHANAMINE, ALPHA, ALPHA-DIMETHYL-

. Waste code: P075
. Waste name: NICOTINE, & SALTS (OR) PYRIDINE, 3-(1-METHYL-2-PYRROLIDINYL)-,(S)-, & SALTS

. Waste code: P081
. Waste name: 1,2,3-PROPANETRIOL, TRINITRATE (R) (OR) NITROGLYCERINE (R)

. Waste code: U002
. Waste name: 2-PROPANONE (I) (OR) ACETONE (I)

. Waste code: U034
. Waste name: ACETALDEHYDE, TRICHLORO- (OR) CHLORAL

. Waste code: U035
. Waste name: BENZENEBUTANOIC ACID, 4-[BIS(2-CHLOROETHYL)AMINO]- (OR) CHLORAMBUCIL

. Waste code: U044
. Waste name: CHLOROFORM (OR) METHANE, TRICHLORO-

. Waste code: U058
. Waste name: 2H-1,3,2-OXAZAPHOSPHORIN-2-AMINE, N,N-BIS(2-CHLOROETHYL)TETRAHYDRO-, 2-OXIDE (OR) CYCLOPHOSPHAMIDE

. Waste code: U072
. Waste name: BENZENE, 1,4-DICHLORO- (OR) P-DICHLOROBENZENE

. Waste code: U122
. Waste name: FORMALDEHYDE

. Waste code: U129
. Waste name: CYCLOHEXANE, 1,2,3,4,5,6-HEXACHLORO-, (1ALPHA, 2ALPHA, 3BETA, 4ALPHA, 5ALPHA, 6BETA)- (OR) LINDANE

. Waste code: U150
. Waste name: L-PHENYLALANINE, 4-[BIS(2-CHLOROETHYL)AMINO]- (OR) MELPHALAN

. Waste code: U154
. Waste name: METHANOL (I) (OR) METHYL ALCOHOL (I)

. Waste code: U188
. Waste name: PHENOL

. Waste code: U200
. Waste name: RESERPINE (OR) YOHIMBAN-16-CARBOXYLIC ACID, 11,17-DIMETHOXY-18-[(3,4,5-TRIMETHOXYBENZOYL)OXY]-, METHYL ESTER,

TARGET STORE T0293 (Continued) **1014465510**

(3BETA, 16BETA, 17ALPHA, 18BETA, 20ALPHA)-

. Waste code: U201
. Waste name: 1,3-BENZENEDIOL (OR) RESORCINOL

. Waste code: U279
. Waste name: CARBARYL (OR) 1-NAPHTHALENOL, METHYLCARBAMATE

Biennial Reports:

Last Biennial Reporting Year: 2017

Annual Waste Handled:

Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.
Amount (Lbs): 4140

Waste code: D002
Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.
Amount (Lbs): 1305

Waste code: D004
Waste name: ARSENIC
Amount (Lbs): 1733

Waste code: D005
Waste name: BARIUM
Amount (Lbs): 2993

Waste code: D006
Waste name: CADMIUM
Amount (Lbs): 9

Waste code: D007
Waste name: CHROMIUM
Amount (Lbs): 2997

Waste code: D008
Waste name: LEAD
Amount (Lbs): 33

Waste code: D010
Waste name: SELENIUM
Amount (Lbs): 1733

Waste code: D011

TARGET STORE T0293 (Continued) **1014465510**

Waste name: SILVER
Amount (Lbs): 2997

Waste code: D016
Waste name: 2,4-D
Amount (Lbs): 1735

Waste code: D018
Waste name: BENZENE
Amount (Lbs): 1260

Waste code: D024
Waste name: M-CRESOL
Amount (Lbs): 1733

Waste code: D026
Waste name: CRESOL
Amount (Lbs): 1733

Waste code: D035
Waste name: METHYL ETHYL KETONE
Amount (Lbs): 2150

Waste code: P001
Waste name: 2H-1-BENZOPYRAN-2-ONE, 4-HYDROXY-3-(3-OXO-1-PHENYLBUTYL)-, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3%
Amount (Lbs): 19

Waste code: P075
Waste name: NICOTINE, & SALTS
Amount (Lbs): 19

Waste code: U002
Waste name: ACETONE (I)
Amount (Lbs): 1260

Waste code: U035
Waste name: BENZENEBUTANOIC ACID, 4-[BIS(2-CHLOROETHYL)AMINO]-
Amount (Lbs): 1733

Waste code: U044
Waste name: CHLOROFORM
Amount (Lbs): 1733

Waste code: U058
Waste name: CYCLOPHOSPHAMIDE
Amount (Lbs): 1733

Waste code: U072
Waste name: BENZENE, 1,4-DICHLORO-
Amount (Lbs): 1733

Waste code: U129
Waste name: CYCLOHEXANE, 1,2,3,4,5,6-HEXACHLORO-, (1ALPHA,2ALPHA,3BETA,4ALPHA,5ALPHA,6BETA)-
Amount (Lbs): 1733

TARGET STORE T0293 (Continued) **1014465510**

Waste code: U154
Waste name: METHANOL (I)
Amount (Lbs): 1260

Waste code: U279
Waste name: CARBARYL (OR) 1-NAPHTHALENOL, METHYLCARBAMATE
Amount (Lbs): 2

Violation Status: No violations found

ECHO:
Envid: 1014465510
Registry ID: 110043588542
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110043588542

O120
SSE
1/8-1/4
0.237 mi.
1252 ft.

FULLERTON 76 **CA UST** **U004274214**
351 N PLACENTIA AVE **N/A**
FULLERTON, CA 92831

Site 6 of 15 in cluster O

Relative:
Lower

Actual:
228 ft.

UST:
Facility ID: FA0024668
Permitting Agency: Orange County Environmental Health
Latitude: 33.87394
Longitude: -117.87905

O121
SSE
1/8-1/4
0.237 mi.
1252 ft.

SHELL SERVICE STATION 2904-1500 **CA SWEEPS UST** **S101589026**
351 N PLACENTIA AVE **CA FID UST** **N/A**
FULLERTON, CA 92631

Site 7 of 15 in cluster O

Relative:
Lower

Actual:
228 ft.

SWEEPS UST:
Status: Active
Comp Number: 3969
Number: 9
Board Of Equalization: Not reported
Referral Date: 03-12-92
Action Date: 03-12-92
Created Date: 12-31-88
Owner Tank Id: 149
SWRCB Tank Id: 30-013-003969-000002
Tank Status: A
Capacity: 550
Active Date: Not reported
Tank Use: UNKNOWN
STG: W
Content: OTHER
Number Of Tanks: 4

Status: Active
Comp Number: 3969
Number: 9
Board Of Equalization: Not reported
Referral Date: 03-12-92

SHELL SERVICE STATION 2904-1500 (Continued) **S101589026**

Action Date:	03-12-92
Created Date:	12-31-88
Owner Tank Id:	149
SWRCB Tank Id:	30-013-003969-000007
Tank Status:	A
Capacity:	12000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	W
Content:	REG UNLEADED
Number Of Tanks:	Not reported

Status:	Active
Comp Number:	3969
Number:	9
Board Of Equalization:	Not reported
Referral Date:	03-12-92
Action Date:	03-12-92
Created Date:	12-31-88
Owner Tank Id:	149
SWRCB Tank Id:	30-013-003969-000008
Tank Status:	A
Capacity:	12000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	W
Content:	LEADED
Number Of Tanks:	Not reported

Status:	Active
Comp Number:	3969
Number:	9
Board Of Equalization:	Not reported
Referral Date:	03-12-92
Action Date:	03-12-92
Created Date:	12-31-88
Owner Tank Id:	149
SWRCB Tank Id:	30-013-003969-000009
Tank Status:	A
Capacity:	12000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	W
Content:	DIESEL
Number Of Tanks:	Not reported

Status:	Not reported
Comp Number:	3969
Number:	Not reported
Board Of Equalization:	Not reported
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	30-013-003969-000004
Tank Status:	Not reported
Capacity:	10000

SHELL SERVICE STATION 2904-1500 (Continued) **S101589026**

Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	WASTE
Content:	REG UNLEADED
Number Of Tanks:	3

Status:	Not reported
Comp Number:	3969
Number:	Not reported
Board Of Equalization:	Not reported
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	30-013-003969-000005
Tank Status:	Not reported
Capacity:	10000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	WASTE
Content:	DIESEL
Number Of Tanks:	Not reported

Status:	Not reported
Comp Number:	3969
Number:	Not reported
Board Of Equalization:	Not reported
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	30-013-003969-000006
Tank Status:	Not reported
Capacity:	10000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	WASTE
Content:	LEADED
Number Of Tanks:	Not reported

CA FID UST:

Facility ID:	30000978
Regulated By:	UTNKA
Regulated ID:	Not reported
Cortese Code:	Not reported
SIC Code:	Not reported
Facility Phone:	7149961221
Mail To:	Not reported
Mailing Address:	P.O. BOX
Mailing Address 2:	Not reported
Mailing City,St,Zip:	FULLERTON 92631
Contact:	Not reported
Contact Phone:	Not reported
DUNs Number:	Not reported
NPDES Number:	Not reported
EPA ID:	Not reported
Comments:	Not reported

SHELL SERVICE STATION 2904-1500 (Continued) **S101589026**

Status: Active

O122
SSE
1/8-1/4
0.237 mi.
1252 ft.

SHELL OIL #351
351 PLACENTIA AVE.
FULLERTON, CA 92632

CA UST **U004271491**
N/A

Site 8 of 15 in cluster O

Relative:
Lower

Actual:
228 ft.

UST CLOSURE:

Claim Number:	Claim No. 4604
Type:	Closure Denials and Approved Orders
Deadline Date:	2013-04-24 00:00:00
Documents:	Notice, Draft Exec Order, Final Closure Review Summary
Comments:	Not reported
Comments URL:	Not reported
Response:	Not reported
Response URL:	Not reported
Comments2:	Not reported
Comments2 URL:	Not reported
Response2:	Not reported
Response2 URL:	Not reported
Closure:	WQO 2013-0017 (05/03/2013)
Closure URL:	https://pubapps.waterboards.ca.gov/board_decisions/adopted_orders/water_quality/2013/wqo2013_0017ust.pdf
Uniform:	Uniform Closure Letter (10/28/2013)
Uniform URL:	https://pubapps.waterboards.ca.gov/water_issues/programs/ustcf/docs/prop_closure_cases/4604_ucltr.pdf

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O123
SSE
1/8-1/4
0.237 mi.
1252 ft.

SHELL (135315)
351 N PLACENTIA AVE
FULLERTON, CA 92831

CA UST **U003778616**
N/A

Site 9 of 15 in cluster O

Relative:
Lower

Actual:
228 ft.

UST:

Facility ID:	3969
Permitting Agency:	FULLERTON, CITY OF
Latitude:	33.8748236
Longitude:	-117.8782169

O124
SSE
1/8-1/4
0.237 mi.
1252 ft.

SHELL SERVICE STATION 135315
351 N PLACENTIA / CHAPMAN
FULLERTON, CA 92832

RCRA-SQG **1004676778**
FINDS **CAR000089367**
ECHO

Site 10 of 15 in cluster O

Relative:
Lower

Actual:
228 ft.

RCRA-SQG:

Date form received by agency:	02/28/2002
Facility name:	SHELL SERVICE STATION 135315
Facility address:	351 N PLACENTIA / CHAPMAN FULLERTON, CA 92634
EPA ID:	CAR000089367
Mailing address:	PO BOX 2648 HOUSTON, TX 77252
Contact:	SONDRA E BIENVENU

SHELL SERVICE STATION 135315 (Continued) **1004676778**

Contact address: Not reported
Not reported
Contact country: US
Contact telephone: 713-241-5036
Contact email: Not reported
EPA Region: 09
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: EQUILON ENTERPRISES
Owner/operator address: P O BOX 2099
HOUSTON, TX 77252
Owner/operator country: Not reported
Owner/operator telephone: 713-241-5036
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 02/28/2002
Site name: SHELL SERVICE STATION 135315
Classification: Large Quantity Generator

Date form received by agency: 01/02/2001
Site name: SHELL SERVICE STATION
Classification: Small Quantity Generator

Hazardous Waste Summary:

SHELL SERVICE STATION 135315 (Continued) **1004676778**

. Waste code: D000
. Waste name: Not Defined

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D018
. Waste name: BENZENE

Violation Status: No violations found

FINDS:

Registry ID: 110006482083

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

HAZARDOUS WASTE BIENNIAL REPORTER

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1004676778
Registry ID: 110006482083
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110006482083

O125 **SHELL** **CA LUST** **S104791796**
SSE **351 PLACENTIA AVE** **CA HIST CORTESE** **N/A**
1/8-1/4 **FULLERTON, CA 92632**
0.237 mi.
1252 ft. **Site 11 of 15 in cluster O**

Relative:
Lower

Actual:
228 ft.

ORANGE CO. LUST:
Region: ORANGE
Facility Id: 90UT009
Released Substance: Gasoline-Automotive (motor gasoline and additives), leaded & unleaded
Date Closed: 04/01/1991
Record ID: RO0002727

LUST REG 8:
Region: 8
County: Orange
Regional Board: Santa Ana Region
Facility Status: Post remedial action monitoring
Case Number: 083001404T
Local Case Num: Not reported
Case Type: Aquifer affected
Substance: Gasoline
Qty Leaked: Not reported

SHELL (Continued) **S104791796**

Abate Method:	Not reported
Cross Street:	HARMONY
Enf Type:	SEL
Funding:	Not reported
How Discovered:	Not reported
How Stopped:	Not reported
Leak Cause:	Not reported
Leak Source:	Not reported
Global ID:	T0605901059
How Stopped Date:	Not reported
Enter Date:	2/5/1990
Date Confirmation of Leak Began:	1/25/2001
Date Preliminary Assessment Began:	2/6/1990
Discover Date:	1/4/1990
Enforcement Date:	1/1/1965
Close Date:	6/12/1995
Date Prelim Assessment Workplan Submitted:	4/16/2001
Date Pollution Characterization Began:	3/17/2003
Date Remediation Plan Submitted:	Not reported
Date Remedial Action Underway:	Not reported
Date Post Remedial Action Monitoring:	9/21/2004
Enter Date:	2/5/1990
GW Qualifies:	=
Soil Qualifies:	=
Operator:	Not reported
Facility Contact:	Not reported
Interim:	Not reported
Oversite Program:	LUST
Latitude:	33.8727518
Longitude:	-117.8794912
MTBE Date:	2/19/2004
Max MTBE GW:	730
MTBE Concentration:	1
Max MTBE Soil:	50000
MTBE Fuel:	1
MTBE Tested:	MTBE Detected. Site tested for MTBE & MTBE detected
MTBE Class:	C
Staff:	CAB
Staff Initials:	SRL
Lead Agency:	Regional Board
Local Agency:	30013
Hydr Basin #:	COASTAL PLAIN OF ORA
Beneficial:	Not reported
Priority:	Not reported
Cleanup Fund Id:	Not reported
Work Suspended:	Not reported
Summary: NO FILE NO FILE NO FILE	NO FILE

HIST CORTESE:

Region:	CORTESE
Facility County Code:	30
Reg By:	LTNKA
Reg Id:	083001404T

O126 SEVAN S YAKINIAN **CA HIST UST** **S118415303**
SSE 351 N PLAENTIA **N/A**
1/8-1/4 FULLERTON, CA 92634
0.237 mi.
1252 ft. **Site 12 of 15 in cluster O**

Relative:
Lower

Actual:
228 ft.

HIST UST:

File Number:	0002EDE1
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002EDE1.pdf
Region:	Not reported
Facility ID:	Not reported
Facility Type:	Not reported
Other Type:	Not reported
Contact Name:	Not reported
Telephone:	Not reported
Owner Name:	Not reported
Owner Address:	Not reported
Owner City,St,Zip:	Not reported
Total Tanks:	Not reported
Tank Num:	Not reported
Container Num:	Not reported
Year Installed:	Not reported
Tank Capacity:	Not reported
Tank Used for:	Not reported
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	Not reported

Click here for Geo Tracker PDF:

O127 SEVAN S YAKINIAN **CA LUST** **U001577076**
SSE 351 N PLACENTIA **CA HIST UST** **N/A**
1/8-1/4 FULLERTON, CA 92631 **CA CERS**
0.237 mi.
1252 ft. **Site 13 of 15 in cluster O**

Relative:
Lower

Actual:
228 ft.

LUST:

Lead Agency:	SANTA ANA RWQCB (REGION 8)
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0605901059
Global Id:	T0605901059
Latitude:	33.8727518
Longitude:	-117.8794912
Status:	Completed - Case Closed
Status Date:	10/28/2013
Case Worker:	CAB
RB Case Number:	083001404T
Local Agency:	FULLERTON, CITY OF
File Location:	Not reported
Local Case Number:	Not reported
Potential Media Affect:	Aquifer used for drinking water supply
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

LUST:

Global Id:	T0605901059
Contact Type:	Regional Board Caseworker
Contact Name:	CARL BERNHARDT
Organization Name:	SANTA ANA RWQCB (REGION 8)

SEVAN S YAKINIAN (Continued) **U001577076**

Address: 3737 MAIN STREET, SUITE 500
City: RIVERSIDE
Email: carl.bernhardt@waterboards.ca.gov
Phone Number: 9517824495

Global Id: T0605901059
Contact Type: Local Agency Caseworker
Contact Name: STEPHEN LONG
Organization Name: FULLERTON, CITY OF
Address: 312 E. COMMONWEALTH AVE.
City: FULLERTON
Email: stevel@fullertonfire.org
Phone Number: 7147383160

LUST:

Global Id: T0605901059
Action Type: RESPONSE
Date: 04/30/2006
Action: Monitoring Report - Quarterly

Global Id: T0605901059
Action Type: RESPONSE
Date: 07/30/2006
Action: Monitoring Report - Quarterly

Global Id: T0605901059
Action Type: RESPONSE
Date: 10/30/2006
Action: Monitoring Report - Quarterly

Global Id: T0605901059
Action Type: ENFORCEMENT
Date: 02/05/1990
Action: * No Action

Global Id: T0605901059
Action Type: ENFORCEMENT
Date: 05/12/2005
Action: Staff Letter

Global Id: T0605901059
Action Type: ENFORCEMENT
Date: 07/03/2003
Action: Staff Letter

Global Id: T0605901059
Action Type: ENFORCEMENT
Date: 07/25/2008
Action: Staff Letter

Global Id: T0605901059
Action Type: ENFORCEMENT
Date: 07/10/2008
Action: Verbal Enforcement

Global Id: T0605901059
Action Type: Other

SEVAN S YAKINIAN (Continued) **U001577076**

Date: 02/05/1990
Action: Leak Reported

Global Id: T0605901059
Action Type: RESPONSE
Date: 01/30/2008
Action: Monitoring Report - Quarterly

Global Id: T0605901059
Action Type: RESPONSE
Date: 04/24/2012
Action: Monitoring Report - Semi-Annually

Global Id: T0605901059
Action Type: RESPONSE
Date: 10/22/2012
Action: Request for Closure

Global Id: T0605901059
Action Type: RESPONSE
Date: 10/29/2012
Action: Monitoring Report - Semi-Annually

Global Id: T0605901059
Action Type: RESPONSE
Date: 04/30/2007
Action: Monitoring Report - Quarterly

Global Id: T0605901059
Action Type: RESPONSE
Date: 07/30/2007
Action: Monitoring Report - Quarterly

Global Id: T0605901059
Action Type: RESPONSE
Date: 10/30/2007
Action: Monitoring Report - Quarterly

Global Id: T0605901059
Action Type: ENFORCEMENT
Date: 07/29/2009
Action: Staff Letter

Global Id: T0605901059
Action Type: RESPONSE
Date: 07/31/2008
Action: Other Workplan

Global Id: T0605901059
Action Type: RESPONSE
Date: 10/30/2008
Action: Tank Removal Report / UST Sampling Report

Global Id: T0605901059
Action Type: RESPONSE
Date: 10/30/2008
Action: Monitoring Report - Quarterly

SEVAN S YAKINIAN (Continued) **U001577076**

Global Id: T0605901059
Action Type: RESPONSE
Date: 08/05/2009
Action: Corrective Action Plan / Remedial Action Plan

Global Id: T0605901059
Action Type: RESPONSE
Date: 01/30/2009
Action: Monitoring Report - Quarterly

Global Id: T0605901059
Action Type: ENFORCEMENT
Date: 10/28/2013
Action: State Water Board Closure Order

Global Id: T0605901059
Action Type: ENFORCEMENT
Date: 02/25/2013
Action: Clean Up Fund - Letter to RP

Global Id: T0605901059
Action Type: ENFORCEMENT
Date: 02/25/2013
Action: Clean Up Fund - Case Closure Review Summary Report (RSR)

Global Id: T0605901059
Action Type: ENFORCEMENT
Date: 05/03/2013
Action: State Water Board Closure Order

Global Id: T0605901059
Action Type: RESPONSE
Date: 07/09/2008
Action: Soil and Water Investigation Workplan

Global Id: T0605901059
Action Type: RESPONSE
Date: 04/30/2009
Action: Monitoring Report - Quarterly

Global Id: T0605901059
Action Type: RESPONSE
Date: 02/20/2009
Action: Soil and Water Investigation Report

Global Id: T0605901059
Action Type: RESPONSE
Date: 11/07/2004
Action: Soil and Water Investigation Report

Global Id: T0605901059
Action Type: RESPONSE
Date: 07/30/2009
Action: Monitoring Report - Quarterly

Global Id: T0605901059
Action Type: RESPONSE

SEVAN S YAKINIAN (Continued) **U001577076**

Date: 04/30/2010
Action: Monitoring Report - Semi-Annually

Global Id: T0605901059
Action Type: REMEDIATION
Date: 09/01/1993
Action: Soil Vapor Extraction (SVE)

Global Id: T0605901059
Action Type: RESPONSE
Date: 03/17/2003
Action: Soil and Water Investigation Workplan

Global Id: T0605901059
Action Type: RESPONSE
Date: 11/30/2004
Action: Monitoring Report - Quarterly

Global Id: T0605901059
Action Type: RESPONSE
Date: 02/28/2005
Action: Monitoring Report - Quarterly

Global Id: T0605901059
Action Type: Other
Date: 01/04/1990
Action: Leak Discovery

Global Id: T0605901059
Action Type: ENFORCEMENT
Date: 09/08/2003
Action: Staff Letter

Global Id: T0605901059
Action Type: ENFORCEMENT
Date: 01/23/2008
Action: Verbal Enforcement

Global Id: T0605901059
Action Type: RESPONSE
Date: 08/07/2003
Action: Other Report / Document

Global Id: T0605901059
Action Type: RESPONSE
Date: 08/12/2005
Action: Soil and Water Investigation Report

Global Id: T0605901059
Action Type: RESPONSE
Date: 04/30/2008
Action: Monitoring Report - Quarterly

Global Id: T0605901059
Action Type: RESPONSE
Date: 07/30/2005
Action: Monitoring Report - Quarterly

SEVAN S YAKINIAN (Continued) **U001577076**

Global Id: T0605901059
Action Type: RESPONSE
Date: 10/30/2005
Action: Monitoring Report - Quarterly

Global Id: T0605901059
Action Type: RESPONSE
Date: 01/30/2006
Action: Monitoring Report - Quarterly

Global Id: T0605901059
Action Type: RESPONSE
Date: 07/30/2008
Action: Monitoring Report - Quarterly

Global Id: T0605901059
Action Type: RESPONSE
Date: 04/30/2011
Action: Monitoring Report - Semi-Annually

Global Id: T0605901059
Action Type: RESPONSE
Date: 10/30/2010
Action: Monitoring Report - Semi-Annually

Global Id: T0605901059
Action Type: RESPONSE
Date: 05/30/2005
Action: Monitoring Report - Quarterly

Global Id: T0605901059
Action Type: RESPONSE
Date: 04/18/2005
Action: Soil and Water Investigation Workplan

Global Id: T0605901059
Action Type: RESPONSE
Date: 08/30/2004
Action: Monitoring Report - Quarterly

Global Id: T0605901059
Action Type: RESPONSE
Date: 01/30/2007
Action: Monitoring Report - Quarterly

Global Id: T0605901059
Action Type: RESPONSE
Date: 01/10/2012
Action: Clean Up Fund - 5-Year Review Summary

LUST:
Global Id: T0605901059
Status: Completed - Case Closed
Status Date: 06/12/1995

Global Id: T0605901059
Status: Completed - Case Closed

SEVAN S YAKINIAN (Continued) **U001577076**

Status Date: 10/28/2013

Global Id: T0605901059
Status: Open - Case Begin Date
Status Date: 01/04/1990

Global Id: T0605901059
Status: Open - Eligible for Closure
Status Date: 03/27/2013

Global Id: T0605901059
Status: Open - Reopen Case
Status Date: 01/25/2001

Global Id: T0605901059
Status: Open - Site Assessment
Status Date: 02/06/1990

Global Id: T0605901059
Status: Open - Site Assessment
Status Date: 04/16/2001

Global Id: T0605901059
Status: Open - Site Assessment
Status Date: 03/17/2003

Global Id: T0605901059
Status: Open - Site Assessment
Status Date: 04/18/2005

Global Id: T0605901059
Status: Open - Verification Monitoring
Status Date: 09/21/2004

HIST UST:

File Number: 0002EDC0
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002EDC0.pdf
Region: STATE
Facility ID: 00000056961
Facility Type: Gas Station
Other Type: Not reported
Contact Name: SEVAN YAKINIAN
Telephone: 7149961221
Owner Name: SHELL OIL CO.
Owner Address: 351 N. PLACENTIA
Owner City,St,Zip: FULLERTON, CA 92631
Total Tanks: 0004

Tank Num: 001
Container Num: 1
Year Installed: 1971
Tank Capacity: 00008000
Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Container Construction Thickness: 1/4
Leak Detection: Stock Inventor

SEVAN S YAKINIAN (Continued) **U001577076**

Tank Num:	001
Container Num:	1
Year Installed:	1971
Tank Capacity:	00008000
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	1/4
Leak Detection:	Stock Inventor, 10

Tank Num:	002
Container Num:	2
Year Installed:	1971
Tank Capacity:	00008000
Tank Used for:	PRODUCT
Type of Fuel:	REGULAR
Container Construction Thickness:	1/4
Leak Detection:	Stock Inventor

Tank Num:	002
Container Num:	2
Year Installed:	1971
Tank Capacity:	00000550
Tank Used for:	WASTE
Type of Fuel:	WASTE OIL
Container Construction Thickness:	12
Leak Detection:	Stock Inventor, 10

Tank Num:	003
Container Num:	3
Year Installed:	1971
Tank Capacity:	00008000
Tank Used for:	PRODUCT
Type of Fuel:	REGULAR
Container Construction Thickness:	1/4
Leak Detection:	Stock Inventor, 10

Tank Num:	003
Container Num:	3
Year Installed:	1971
Tank Capacity:	00010000
Tank Used for:	PRODUCT
Type of Fuel:	PREMIUM
Container Construction Thickness:	1/4
Leak Detection:	Stock Inventor

Tank Num:	004
Container Num:	4
Year Installed:	1971
Tank Capacity:	00010000
Tank Used for:	PRODUCT
Type of Fuel:	PREMIUM
Container Construction Thickness:	1/4
Leak Detection:	Stock Inventor, 10

Tank Num:	004
Container Num:	4
Year Installed:	1971

SEVAN S YAKINIAN (Continued) **U001577076**

Tank Capacity:	00000550
Tank Used for:	WASTE
Type of Fuel:	WASTE OIL
Container Construction Thickness:	12
Leak Detection:	Stock Inventor

Click here for Geo Tracker PDF:

CERS TANKS:

Site ID:	208402
CERS ID:	T0605901059
Site Name:	SHELL #351
CERS Description:	Leaking Underground Storage Tank Cleanup Site

Affiliation:

Affiliation Type Desc:	Local Agency Caseworker
Entity Name:	STEPHEN LONG - FULLERTON, CITY OF
Entity Title:	Not reported
Affiliation Address:	312 E. COMMONWEALTH AVE.
Affiliation City:	FULLERTON
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	7147383160

Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	CARL BERNHARDT - SANTA ANA RWQCB (REGION 8)
Entity Title:	Not reported
Affiliation Address:	3737 MAIN STREET, SUITE 500
Affiliation City:	RIVERSIDE
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	9517824495

O128 **FULLERTON 76** **CA CERS HAZ WASTE** **S113086703**
SSE **351 N PLACENTIA AVE** **CA CERS TANKS** **N/A**
1/8-1/4 **FULLERTON, CA 92831** **CA HAZNET**
0.237 mi. **CA CERS**
1252 ft. **Site 14 of 15 in cluster O**

Relative:
Lower

Actual:
228 ft.

CERS HAZ WASTE:

Site ID:	416983
CERS ID:	10514620
CERS Description:	Hazardous Waste Generator

Violations:

Site ID:	416983
Site Name:	FULLERTON 76
Violation Date:	01-27-2014
Citation:	HSC 6.95 25504(a) - California Health and Safety Code, Chapter 6.95, Section(s) 25504(a)
Violation Description:	Failure to complete and/or submit hazardous material inventory forms for all reportable hazardous materials on site.
Violation Notes:	Not reported
Violation Division:	Orange County Environmental Health
Violation Program:	HMRRP

FULLERTON 76 (Continued) **S113086703**

Violation Source: CERS

Site ID: 416983
Site Name: FULLERTON 76
Violation Date: 01-12-2017
Citation: 23 CCR 16 2712(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(i)
Violation Description: Failure to have a UST Monitoring Plan available on site.
Violation Notes: Returned to compliance on 01/12/2017.
Violation Division: Fullerton City Fire Department
Violation Program: UST
Violation Source: CERS

Site ID: 416983
Site Name: FULLERTON 76
Violation Date: 01-12-2017
Citation: HSC 6.95 25508.2 - California Health and Safety Code, Chapter 6.95, Section(s) 25508.2
Violation Description: Failure to annually review and electronically certify that the business plan is complete and accurate on or before the annual due date.
Violation Notes: Returned to compliance on 04/20/2017. Because of OCHCA's migration of disclosure and UST data from esumbit to CERS, the facility was unable to update its disclosure at the time of inspection.
Violation Division: Fullerton City Fire Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 416983
Site Name: FULLERTON 76
Violation Date: 01-27-2014
Citation: HSC 6.75 25299.30-25299.34 - California Health and Safety Code, Chapter 6.75, Section(s) 25299.30-25299.34
Violation Description: Failure to submit and maintain complete and current Certification of Financial Responsibility or other mechanism of financial assurance.
Violation Notes: Not reported
Violation Division: Orange County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 416983
Site Name: FULLERTON 76
Violation Date: 01-08-2018
Citation: 23 CCR 16 2637(e) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2637(e)
Violation Description: Failure to submit a copy of the secondary containment test results to the UPA within 30 days after the test.
Violation Notes: Returned to compliance on 01/08/2018. Secondary containment testing was performed 2/3/17.
Violation Division: Fullerton City Fire Department
Violation Program: UST
Violation Source: CERS

Site ID: 416983
Site Name: FULLERTON 76
Violation Date: 12-27-2018
Citation: 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22,

FULLERTON 76 (Continued) **S113086703**

	Chapter 12, Section(s) 66262.34(f)
Violation Description:	Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes:	Returned to compliance on 12/27/2018. Observed one 330 gallon container of used oil to not be labeled with any required hazardous waste labeling elements. Label was provided and completed during inspection. Violation corrected on site.
Violation Division:	Orange County Environmental Health
Violation Program:	HW
Violation Source:	CERS
Site ID:	416983
Site Name:	FULLERTON 76
Violation Date:	12-27-2018
Citation:	HSC 6.5 25250.22 - California Health and Safety Code, Chapter 6.5, Section(s) 25250.22
Violation Description:	Failure to properly manage used oil and/or fuel filters in accordance with the requirements.
Violation Notes:	Returned to compliance on 12/27/2018. Observed one 55 gallon drum of used oil filters to not be labeled. Label was provided and completed during inspection. Violation corrected on site.
Violation Division:	Orange County Environmental Health
Violation Program:	HW
Violation Source:	CERS
Site ID:	416983
Site Name:	FULLERTON 76
Violation Date:	01-08-2018
Citation:	HSC 6.7 25290.1(c),25290.2(c),25291(a)(2),2529.1(e) - California Health and Safety Code, Chapter 6.7, Section(s) 25290.1(c),25290.2(c),25291(a)(2),2529.1(e)
Violation Description:	Failure to maintain secondary containment (e.g., failure of secondary containment testing).
Violation Notes:	Returned to compliance on 04/23/2018. UDC #7/8 failed secondary containment testing on 2/3/17. No copy of these test results was received by this agency (see violation this date). Repairs and retesting performed.
Violation Division:	Fullerton City Fire Department
Violation Program:	UST
Violation Source:	CERS
Site ID:	416983
Site Name:	FULLERTON 76
Violation Date:	01-12-2017
Citation:	HSC 6.75 25299.30-25299.34 - California Health and Safety Code, Chapter 6.75, Section(s) 25299.30-25299.34
Violation Description:	Failure to submit and maintain complete and current Certification of Financial Responsibility or other mechanism of financial assurance.
Violation Notes:	Returned to compliance on 04/20/2017. Because of OCHCA's migration of disclosure and UST data from esumbit to CERS, the facility was unable to submit its current financial responsibility documentation at the time of inspection.
Violation Division:	Fullerton City Fire Department
Violation Program:	UST

FULLERTON 76 (Continued) **S113086703**

Violation Source: CERS

Evaluation:

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-14-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Monitor certification performed at time of inspection. No violations observed.
Eval Division: Fullerton City Fire Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-12-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Fullerton City Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-27-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Failure to maintain proof of financial responsibility
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-14-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Submitted via esubmit. No violations observed.
Eval Division: Fullerton City Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-08-2015
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: On site for the triennial Hazardous Waste (HW) inspection. Permission to inspect granted by Fullerton 76/Vartanian. Only HW is waste oil, filters and clarifier. Drums were stored closed, and properly labeled with beginning accumulation date. Waste oil AST had proper labels and was stored closed. HMBEP on site with FFD. Review trash and facility perimeter. No HW disposal. Manifest on site and available for review. No violations.
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-08-2018

FULLERTON 76 (Continued) **S113086703**

Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	No violations observed.
Eval Division:	Fullerton City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	01-12-2017
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Monitor certification performed this date.
Eval Division:	Fullerton City Fire Department
Eval Program:	UST
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	01-27-2014
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	FACILITY SHALL UPDATE HMD/MEP USING E-SUBMIT.
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	01-08-2018
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	ANNUAL MONITOR CERTIFICATION OBSERVED THIS DAY.
Eval Division:	Fullerton City Fire Department
Eval Program:	UST
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	03-26-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	file purge
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	12-27-2018
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS

Enforcement Action:

Site ID:	416983
Site Name:	FULLERTON 76
Site Address:	351 N PLACENTIA AVE
Site City:	FULLERTON

FULLERTON 76 (Continued) **S113086703**

Site Zip:	92831
Enf Action Date:	01-27-2014
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	Orange County Environmental Health
Enf Action Program:	HMRRP
Enf Action Source:	CERS

Site ID:	416983
Site Name:	FULLERTON 76
Site Address:	351 N PLACENTIA AVE
Site City:	FULLERTON
Site Zip:	92831
Enf Action Date:	01-27-2014
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	Orange County Environmental Health
Enf Action Program:	UST
Enf Action Source:	CERS

Coordinates:

Site ID:	416983
Facility Name:	FULLERTON 76
Env Int Type Code:	HMBP
Program ID:	10514620
Coord Name:	Not reported
Ref Point Type Desc:	Center of a facility or station.
Latitude:	33.873940
Longitude:	-117.879050

Affiliation:

Affiliation Type Desc:	Legal Owner
Entity Name:	ROOBI VARTANIAN
Entity Title:	Not reported
Affiliation Address:	351 N PLACENTIA AVE
Affiliation City:	FULLERTON
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92831
Affiliation Phone:	(714) 996-1221

Affiliation Type Desc:	Operator
Entity Name:	Fullerton 76
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(714) 996-1221

Affiliation Type Desc:	UST Tank Owner
Entity Name:	Fullerton 76
Entity Title:	Not reported

FULLERTON 76 (Continued) **S113086703**

Affiliation Address:	351 N. Placentia Dr.
Affiliation City:	Fullerton
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92831
Affiliation Phone:	(714) 996-1221

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	351 N PLACENTIA AVE
Affiliation City:	FULLERTON
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92831
Affiliation Phone:	Not reported

Affiliation Type Desc:	Identification Signer
Entity Name:	Roobi Vartanian
Entity Title:	Owner
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	UST Tank Operator
Entity Name:	Fullerton 76
Entity Title:	Not reported
Affiliation Address:	351 N. Placentia Dr.
Affiliation City:	Fullerton
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92831
Affiliation Phone:	(714) 996-1221

Affiliation Type Desc:	CUPA District
Entity Name:	Orange County Env Health
Entity Title:	Not reported
Affiliation Address:	1241 East Dyer RoadSuite 120
Affiliation City:	Santa Ana
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92705-5611
Affiliation Phone:	(714) 433-6000

Affiliation Type Desc:	Document Preparer
Entity Name:	Roobi Vartanian
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

FULLERTON 76 (Continued) **S113086703**

Affiliation Type Desc:	Environmental Contact
Entity Name:	ROOBI VARTANIAN
Entity Title:	Not reported
Affiliation Address:	351 N. Placentia
Affiliation City:	Fulllerton
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92831
Affiliation Phone:	Not reported

Affiliation Type Desc:	Parent Corporation
Entity Name:	Fullerton 76
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	UST Permit Applicant
Entity Name:	Roobi Vartanian
Entity Title:	Owner
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(714) 996-1221

Affiliation Type Desc:	UST Property Owner Name
Entity Name:	Fullerton 76
Entity Title:	Not reported
Affiliation Address:	351 N. Placentia Dr.
Affiliation City:	Fullerton
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92831
Affiliation Phone:	(714) 996-1221

CERS TANKS:

Facility Name:	FULLERTON 76
Site ID:	416983
CERS ID:	10514620
CERS Description:	Underground Storage Tank

Violations:

Site ID:	416983
Site Name:	FULLERTON 76
Violation Date:	01-27-2014
Citation:	HSC 6.95 25504(a) - California Health and Safety Code, Chapter 6.95, Section(s) 25504(a)
Violation Description:	Failure to complete and/or submit hazardous material inventory forms for all reportable hazardous materials on site.
Violation Notes:	Not reported
Violation Division:	Orange County Environmental Health

FULLERTON 76 (Continued) **S113086703**

Violation Program: HMRRP
Violation Source: CERS

Site ID: 416983
Site Name: FULLERTON 76
Violation Date: 01-12-2017
Citation: 23 CCR 16 2712(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(i)
Violation Description: Failure to have a UST Monitoring Plan available on site.
Violation Notes: Returned to compliance on 01/12/2017.
Violation Division: Fullerton City Fire Department
Violation Program: UST
Violation Source: CERS

Site ID: 416983
Site Name: FULLERTON 76
Violation Date: 01-12-2017
Citation: HSC 6.95 25508.2 - California Health and Safety Code, Chapter 6.95, Section(s) 25508.2
Violation Description: Failure to annually review and electronically certify that the business plan is complete and accurate on or before the annual due date.
Violation Notes: Returned to compliance on 04/20/2017. Because of OCHCA's migration of disclosure and UST data from esumbit to CERS, the facility was unable to update its disclosure at the time of inspection.
Violation Division: Fullerton City Fire Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 416983
Site Name: FULLERTON 76
Violation Date: 01-27-2014
Citation: HSC 6.75 25299.30-25299.34 - California Health and Safety Code, Chapter 6.75, Section(s) 25299.30-25299.34
Violation Description: Failure to submit and maintain complete and current Certification of Financial Responsibility or other mechanism of financial assurance.
Violation Notes: Not reported
Violation Division: Orange County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 416983
Site Name: FULLERTON 76
Violation Date: 01-08-2018
Citation: 23 CCR 16 2637(e) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2637(e)
Violation Description: Failure to submit a copy of the secondary containment test results to the UPA within 30 days after the test.
Violation Notes: Returned to compliance on 01/08/2018. Secondary containment testing was performed 2/3/17.
Violation Division: Fullerton City Fire Department
Violation Program: UST
Violation Source: CERS

Site ID: 416983
Site Name: FULLERTON 76
Violation Date: 12-27-2018

FULLERTON 76 (Continued) **S113086703**

Citation:	22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description:	Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes:	Returned to compliance on 12/27/2018. Observed one 330 gallon container of used oil to not be labeled with any required hazardous waste labeling elements. Label was provided and completed during inspection. Violation corrected on site.
Violation Division:	Orange County Environmental Health
Violation Program:	HW
Violation Source:	CERS
Site ID:	416983
Site Name:	FULLERTON 76
Violation Date:	12-27-2018
Citation:	HSC 6.5 25250.22 - California Health and Safety Code, Chapter 6.5, Section(s) 25250.22
Violation Description:	Failure to properly manage used oil and/or fuel filters in accordance with the requirements.
Violation Notes:	Returned to compliance on 12/27/2018. Observed one 55 gallon drum of used oil filters to not be labeled. Label was provided and completed during inspection. Violation corrected on site.
Violation Division:	Orange County Environmental Health
Violation Program:	HW
Violation Source:	CERS
Site ID:	416983
Site Name:	FULLERTON 76
Violation Date:	01-08-2018
Citation:	HSC 6.7 25290.1(c),25290.2(c),25291(a)(2),2529.1(e) - California Health and Safety Code, Chapter 6.7, Section(s) 25290.1(c),25290.2(c),25291(a)(2),2529.1(e)
Violation Description:	Failure to maintain secondary containment (e.g., failure of secondary containment testing).
Violation Notes:	Returned to compliance on 04/23/2018. UDC #7/8 failed secondary containment testing on 2/3/17. No copy of these test results was received by this agency (see violation this date). Repairs and retesting performed.
Violation Division:	Fullerton City Fire Department
Violation Program:	UST
Violation Source:	CERS
Site ID:	416983
Site Name:	FULLERTON 76
Violation Date:	01-12-2017
Citation:	HSC 6.75 25299.30-25299.34 - California Health and Safety Code, Chapter 6.75, Section(s) 25299.30-25299.34
Violation Description:	Failure to submit and maintain complete and current Certification of Financial Responsibility or other mechanism of financial assurance.
Violation Notes:	Returned to compliance on 04/20/2017. Because of OCHCA's migration of disclosure and UST data from esumbit to CERS, the facility was unable to submit its current financial responsibility documentation at the time of inspection.
Violation Division:	Fullerton City Fire Department

FULLERTON 76 (Continued) **S113086703**

Violation Program: UST
Violation Source: CERS

Evaluation:

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-14-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Monitor certification performed at time of inspection. No violations observed.
Eval Division: Fullerton City Fire Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-12-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Fullerton City Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-27-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Failure to maintain proof of financial responsibility
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-14-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Submitted via esubmit. No violations observed.
Eval Division: Fullerton City Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-08-2015
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: On site for the triennial Hazardous Waste (HW) inspection. Permission to inspect granted by Fullerton 76/Vartanian. Only HW is waste oil, filters and clarifier. Drums were stored closed, and properly labeled with beginning accumulation date. Waste oil AST had proper labels and was stored closed. HMBEP on site with FFD. Review trash and facility perimeter. No HW disposal. Manifest on site and available for review. No violations.
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection

FULLERTON 76 (Continued) **S113086703**

Eval Date:	01-08-2018
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	No violations observed.
Eval Division:	Fullerton City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	01-12-2017
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Monitor certification performed this date.
Eval Division:	Fullerton City Fire Department
Eval Program:	UST
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	01-27-2014
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	FACILITY SHALL UPDATE HMD/MEP USING E-SUBMIT.
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	01-08-2018
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	ANNUAL MONITOR CERTIFICATION OBSERVED THIS DAY.
Eval Division:	Fullerton City Fire Department
Eval Program:	UST
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	03-26-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	file purge
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	12-27-2018
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS

Enforcement Action:

Site ID:	416983
Site Name:	FULLERTON 76
Site Address:	351 N PLACENTIA AVE

FULLERTON 76 (Continued) **S113086703**

Site City:	FULLERTON
Site Zip:	92831
Enf Action Date:	01-27-2014
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	Orange County Environmental Health
Enf Action Program:	HMRRP
Enf Action Source:	CERS

Site ID:	416983
Site Name:	FULLERTON 76
Site Address:	351 N PLACENTIA AVE
Site City:	FULLERTON
Site Zip:	92831
Enf Action Date:	01-27-2014
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	Orange County Environmental Health
Enf Action Program:	UST
Enf Action Source:	CERS

Coordinates:

Site ID:	416983
Facility Name:	FULLERTON 76
Env Int Type Code:	HMBP
Program ID:	10514620
Coord Name:	Not reported
Ref Point Type Desc:	Center of a facility or station.
Latitude:	33.873940
Longitude:	-117.879050

Affiliation:

Affiliation Type Desc:	Legal Owner
Entity Name:	ROOBI VARTANIAN
Entity Title:	Not reported
Affiliation Address:	351 N PLACENTIA AVE
Affiliation City:	FULLERTON
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92831
Affiliation Phone:	(714) 996-1221

Affiliation Type Desc:	Operator
Entity Name:	Fullerton 76
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(714) 996-1221

Affiliation Type Desc:	UST Tank Owner
Entity Name:	Fullerton 76

FULLERTON 76 (Continued) **S113086703**

Entity Title:	Not reported
Affiliation Address:	351 N. Placentia Dr.
Affiliation City:	Fullerton
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92831
Affiliation Phone:	(714) 996-1221

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	351 N PLACENTIA AVE
Affiliation City:	FULLERTON
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92831
Affiliation Phone:	Not reported

Affiliation Type Desc:	Identification Signer
Entity Name:	Roobi Vartanian
Entity Title:	Owner
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	UST Tank Operator
Entity Name:	Fullerton 76
Entity Title:	Not reported
Affiliation Address:	351 N. Placentia Dr.
Affiliation City:	Fullerton
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92831
Affiliation Phone:	(714) 996-1221

Affiliation Type Desc:	CUPA District
Entity Name:	Orange County Env Health
Entity Title:	Not reported
Affiliation Address:	1241 East Dyer RoadSuite 120
Affiliation City:	Santa Ana
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92705-5611
Affiliation Phone:	(714) 433-6000

Affiliation Type Desc:	Document Preparer
Entity Name:	Roobi Vartanian
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

FULLERTON 76 (Continued) **S113086703**

Affiliation Type Desc:	Environmental Contact
Entity Name:	ROOBI VARTANIAN
Entity Title:	Not reported
Affiliation Address:	351 N. Placentia
Affiliation City:	Fulllerton
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92831
Affiliation Phone:	Not reported

Affiliation Type Desc:	Parent Corporation
Entity Name:	Fullerton 76
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	UST Permit Applicant
Entity Name:	Roobi Vartanian
Entity Title:	Owner
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(714) 996-1221

Affiliation Type Desc:	UST Property Owner Name
Entity Name:	Fullerton 76
Entity Title:	Not reported
Affiliation Address:	351 N. Placentia Dr.
Affiliation City:	Fullerton
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92831
Affiliation Phone:	(714) 996-1221

HAZNET:

Site Name:	FULLERTON 76
Year:	2014
GEPAID:	CAL000162168
Contact:	ROOBI VARTANIAN/PARTNER
Telephone:	7149961221
Mailing Name:	Not reported
Mailing Address:	351 N PLACENTIA AVE
Mailing City,St,Zip:	FULLERTON, CA 928310000
Gen County:	Orange
TSD EPA ID:	CAD028409019
TSD County:	Los Angeles
Tons:	0.9174
CA Waste Code:	241-Tank bottom waste
Method:	H135-Discharge To Sewer/Potw Or Npdes(With Prior Storage--With Or Without Treatment)

FULLERTON 76 (Continued) **S113086703**

Facility County: Orange

Site Name: FULLERTON 76
Year: 2006
GEPAID: CAL000162168
Contact: ROOBI VARTANIAN/PARTNER
Telephone: 7149961221
Mailing Name: Not reported
Mailing Address: 351 N PLACENTIA AVE
Mailing City,St,Zip: FULLERTON, CA 928310000
Gen County: Orange
TSD EPA ID: CAT080013352
TSD County: Los Angeles
Tons: 0.3336
CA Waste Code: 222-Oil/water separation sludge
Method: H135-Discharge To Sewer/Potw Or Npdes(With Prior Storage--With Or Without Treatment)
Facility County: Orange

Site Name: FULLERTON 76
Year: 2001
GEPAID: CAL000162168
Contact: ROOBI VARTANIAN/PARTNER
Telephone: 7149961221
Mailing Name: Not reported
Mailing Address: 351 N PLACENTIA AVE
Mailing City,St,Zip: FULLERTON, CA 928310000
Gen County: Orange
TSD EPA ID: CA0000084517
TSD County: Sacramento
Tons: 0.0416
CA Waste Code: 541-Photochemicals/photoprocessing waste
Method: H01-Transfer Station
Facility County: Orange

Site Name: BEST SHELL
Year: 2000
GEPAID: CAL000162168
Contact: RUBIK VARTANIAN
Telephone: 0000000000
Mailing Name: Not reported
Mailing Address: 351 N PLACENTIA AVE
Mailing City,St,Zip: FULLERTON, CA 928310000
Gen County: Orange
TSD EPA ID: CA0000084517
TSD County: Sacramento
Tons: 0.0416
CA Waste Code: 541-Photochemicals/photoprocessing waste
Method: H01-Transfer Station
Facility County: Orange

Site Name: BEST SHELL
Year: 1999
GEPAID: CAL000162168
Contact: RUBIK VARTANIAN
Telephone: 0000000000
Mailing Name: Not reported

FULLERTON 76 (Continued) **S113086703**

Mailing Address:	351 N PLACENTIA AVE
Mailing City,St,Zip:	FULLERTON, CA 928310000
Gen County:	Orange
TSD EPA ID:	CA0000084517
TSD County:	Sacramento
Tons:	0.0417
CA Waste Code:	541-Photochemicals/photoprocessing waste
Method:	H01-Transfer Station
Facility County:	Orange

Click this hyperlink while viewing on your computer to access
2 additional CA_HAZNET: record(s) in the EDR Site Report.

CERS TANKS:

Site ID:	416983
CERS ID:	10514620
Site Name:	FULLERTON 76
CERS Description:	Chemical Storage Facilities

Violations:

Site ID:	416983
Site Name:	FULLERTON 76
Violation Date:	01-27-2014
Citation:	HSC 6.95 25504(a) - California Health and Safety Code, Chapter 6.95, Section(s) 25504(a)
Violation Description:	Failure to complete and/or submit hazardous material inventory forms for all reportable hazardous materials on site.
Violation Notes:	Not reported
Violation Division:	Orange County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS

Site ID:	416983
Site Name:	FULLERTON 76
Violation Date:	01-12-2017
Citation:	23 CCR 16 2712(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(i)
Violation Description:	Failure to have a UST Monitoring Plan available on site.
Violation Notes:	Returned to compliance on 01/12/2017.
Violation Division:	Fullerton City Fire Department
Violation Program:	UST
Violation Source:	CERS

Site ID:	416983
Site Name:	FULLERTON 76
Violation Date:	01-12-2017
Citation:	HSC 6.95 25508.2 - California Health and Safety Code, Chapter 6.95, Section(s) 25508.2
Violation Description:	Failure to annually review and electronically certify that the business plan is complete and accurate on or before the annual due date.
Violation Notes:	Returned to compliance on 04/20/2017. Because of OCHCA's migration of disclosure and UST data from esumbit to CERS, the facility was unable to update its disclosure at the time of inspection.
Violation Division:	Fullerton City Fire Department
Violation Program:	HMRRP
Violation Source:	CERS

FULLERTON 76 (Continued) **S113086703**

Site ID:	416983
Site Name:	FULLERTON 76
Violation Date:	01-27-2014
Citation:	HSC 6.75 25299.30-25299.34 - California Health and Safety Code, Chapter 6.75, Section(s) 25299.30-25299.34
Violation Description:	Failure to submit and maintain complete and current Certification of Financial Responsibility or other mechanism of financial assurance.
Violation Notes:	Not reported
Violation Division:	Orange County Environmental Health
Violation Program:	UST
Violation Source:	CERS

Site ID:	416983
Site Name:	FULLERTON 76
Violation Date:	01-08-2018
Citation:	23 CCR 16 2637(e) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2637(e)
Violation Description:	Failure to submit a copy of the secondary containment test results to the UPA within 30 days after the test.
Violation Notes:	Returned to compliance on 01/08/2018. Secondary containment testing was performed 2/3/17.
Violation Division:	Fullerton City Fire Department
Violation Program:	UST
Violation Source:	CERS

Site ID:	416983
Site Name:	FULLERTON 76
Violation Date:	12-27-2018
Citation:	22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description:	Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes:	Returned to compliance on 12/27/2018. Observed one 330 gallon container of used oil to not be labeled with any required hazardous waste labeling elements. Label was provided and completed during inspection. Violation corrected on site.
Violation Division:	Orange County Environmental Health
Violation Program:	HW
Violation Source:	CERS

Site ID:	416983
Site Name:	FULLERTON 76
Violation Date:	12-27-2018
Citation:	HSC 6.5 25250.22 - California Health and Safety Code, Chapter 6.5, Section(s) 25250.22
Violation Description:	Failure to properly manage used oil and/or fuel filters in accordance with the requirements.
Violation Notes:	Returned to compliance on 12/27/2018. Observed one 55 gallon drum of used oil filters to not be labeled. Label was provided and completed during inspection. Violation corrected on site.
Violation Division:	Orange County Environmental Health
Violation Program:	HW
Violation Source:	CERS

FULLERTON 76 (Continued) **S113086703**

Site ID:	416983
Site Name:	FULLERTON 76
Violation Date:	01-08-2018
Citation:	HSC 6.7 25290.1(c),25290.2(c),25291(a)(2),2529.1(e) - California Health and Safety Code, Chapter 6.7, Section(s) 25290.1(c),25290.2(c),25291(a)(2),2529.1(e)
Violation Description:	Failure to maintain secondary containment (e.g., failure of secondary containment testing).
Violation Notes:	Returned to compliance on 04/23/2018. UDC #7/8 failed secondary containment testing on 2/3/17. No copy of these test results was received by this agency (see violation this date). Repairs and retesting performed.
Violation Division:	Fullerton City Fire Department
Violation Program:	UST
Violation Source:	CERS

Site ID:	416983
Site Name:	FULLERTON 76
Violation Date:	01-12-2017
Citation:	HSC 6.75 25299.30-25299.34 - California Health and Safety Code, Chapter 6.75, Section(s) 25299.30-25299.34
Violation Description:	Failure to submit and maintain complete and current Certification of Financial Responsibility or other mechanism of financial assurance.
Violation Notes:	Returned to compliance on 04/20/2017. Because of OCHCA's migration of disclosure and UST data from esumbit to CERS, the facility was unable to submit its current financial responsibility documentation at the time of inspection.
Violation Division:	Fullerton City Fire Department
Violation Program:	UST
Violation Source:	CERS

Evaluation:

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	01-14-2016
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Monitor certification performed at time of inspection. No violations observed.
Eval Division:	Fullerton City Fire Department
Eval Program:	UST
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	01-12-2017
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Fullerton City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	01-27-2014
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Failure to maintain proof of financial responsibility
Eval Division:	Orange County Environmental Health

FULLERTON 76 (Continued) **S113086703**

Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	01-14-2016
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Submitted via esubmit. No violations observed.
Eval Division:	Fullerton City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	12-08-2015
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	On site for the triennial Hazardous Waste (HW) inspection. Permission to inspect granted by Fullerton 76/Vartanian. Only HW is waste oil, filters and clarifier. Drums were stored closed, and properly labeled with beginning accumulation date. Waste oil AST had proper labels and was stored closed. HMBEP on site with FFD. Review trash and facility perimeter. No HW disposal. Manifest on site and available for review. No violations.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	01-08-2018
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	No violations observed.
Eval Division:	Fullerton City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	01-12-2017
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Monitor certification performed this date.
Eval Division:	Fullerton City Fire Department
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	01-27-2014
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	FACILITY SHALL UPDATE HMD/MEP USING E-SUBMIT.
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	01-08-2018
Violations Found:	Yes

FULLERTON 76 (Continued) **S113086703**

Eval Type:	Routine done by local agency
Eval Notes:	ANNUAL MONITOR CERTIFICATION OBSERVED THIS DAY.
Eval Division:	Fullerton City Fire Department
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	03-26-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	file purge
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	12-27-2018
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS

Enforcement Action:

Site ID:	416983
Site Name:	FULLERTON 76
Site Address:	351 N PLACENTIA AVE
Site City:	FULLERTON
Site Zip:	92831
Enf Action Date:	01-27-2014
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	Orange County Environmental Health
Enf Action Program:	HMRRP
Enf Action Source:	CERS
Site ID:	416983
Site Name:	FULLERTON 76
Site Address:	351 N PLACENTIA AVE
Site City:	FULLERTON
Site Zip:	92831
Enf Action Date:	01-27-2014
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	Orange County Environmental Health
Enf Action Program:	UST
Enf Action Source:	CERS

Coordinates:

Site ID:	416983
Facility Name:	FULLERTON 76
Env Int Type Code:	HMBP
Program ID:	10514620

FULLERTON 76 (Continued) **S113086703**

Coord Name: Not reported
Ref Point Type Desc: Center of a facility or station.
Latitude: 33.873940
Longitude: -117.879050

Affiliation:
Affiliation Type Desc: Legal Owner
Entity Name: ROOBI VARTANIAN
Entity Title: Not reported
Affiliation Address: 351 N PLACENTIA AVE
Affiliation City: FULLERTON
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 92831
Affiliation Phone: (714) 996-1221

Affiliation Type Desc: Operator
Entity Name: Fullerton 76
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (714) 996-1221

Affiliation Type Desc: UST Tank Owner
Entity Name: Fullerton 76
Entity Title: Not reported
Affiliation Address: 351 N. Placentia Dr.
Affiliation City: Fullerton
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 92831
Affiliation Phone: (714) 996-1221

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 351 N PLACENTIA AVE
Affiliation City: FULLERTON
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92831
Affiliation Phone: Not reported

Affiliation Type Desc: Identification Signer
Entity Name: Roobi Vartanian
Entity Title: Owner
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: UST Tank Operator

FULLERTON 76 (Continued) **S113086703**

Entity Name:	Fullerton 76
Entity Title:	Not reported
Affiliation Address:	351 N. Placentia Dr.
Affiliation City:	Fullerton
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92831
Affiliation Phone:	(714) 996-1221

Affiliation Type Desc:	CUPA District
Entity Name:	Orange County Env Health
Entity Title:	Not reported
Affiliation Address:	1241 East Dyer RoadSuite 120
Affiliation City:	Santa Ana
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92705-5611
Affiliation Phone:	(714) 433-6000

Affiliation Type Desc:	Document Preparer
Entity Name:	Roobi Vartanian
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Environmental Contact
Entity Name:	ROOBI VARTANIAN
Entity Title:	Not reported
Affiliation Address:	351 N. Placentia
Affiliation City:	Fulllerton
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92831
Affiliation Phone:	Not reported

Affiliation Type Desc:	Parent Corporation
Entity Name:	Fullerton 76
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	UST Permit Applicant
Entity Name:	Roobi Vartanian
Entity Title:	Owner
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported

FULLERTON 76 (Continued) **S113086703**

Affiliation Phone: (714) 996-1221

Affiliation Type Desc: UST Property Owner Name
Entity Name: Fullerton 76
Entity Title: Not reported
Affiliation Address: 351 N. Placentia Dr.
Affiliation City: Fullerton
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 92831
Affiliation Phone: (714) 996-1221

O129 SSE 1/8-1/4 0.237 mi. 1252 ft. **SEVANS SHELL SVC** **RCRA-SQG** **1000596215**
351 N PLACENTIA AVE **CAD983601782**
FULLERTON, CA 92831

Site 15 of 15 in cluster O

Relative: Lower
Actual: 228 ft.

RCRA-SQG:
Date form received by agency: 08/13/1991
Facility name: SEVANS SHELL SVC
Facility address: 351 N PLACENTIA AVE
FULLERTON, CA 92831
EPA ID: CAD983601782
Contact: ROOBI VARTANIAN
Contact address: 351 N PLACENTIA AVE
FULLERTON, CA 92631
Contact country: US
Contact telephone: 714-996-1221
Contact email: Not reported
EPA Region: 09
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: VASEVAN SHELL
Owner/operator address: 351 N PLACENTIA AVE
FULLERTON, CA 92631
Owner/operator country: Not reported
Owner/operator telephone: 714-996-1221
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No

SEVANS SHELL SVC (Continued) **1000596215**

Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Violation Status: No violations found

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130 ESE 1/8-1/4 0.238 mi. 1255 ft. | **U-HAUL 862 PLACENTIA PLACENTIA, CA 92670** | **CA LUST** **S102439445** **CA CERS** **N/A**

Relative: Higher

Actual: 252 ft.

LUST:

Lead Agency:	ORANGE COUNTY LOP
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0605903352
Global Id:	T0605903352
Latitude:	33.881188
Longitude:	-117.876901
Status:	Completed - Case Closed
Status Date:	10/15/1996
Case Worker:	TE
RB Case Number:	Not reported
Local Agency:	ORANGE COUNTY LOP
File Location:	Local Agency
Local Case Number:	94UT068
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Waste Oil / Motor / Hydraulic / Lubricating, * Solvents
Site History:	Not reported

LUST:

Global Id:	T0605903352
Contact Type:	Regional Board Caseworker
Contact Name:	NONE
Organization Name:	SANTA ANA RWQCB (REGION 8)
Address:	Not reported
City:	RIVERSIDE
Email:	Not reported
Phone Number:	Not reported

Global Id:	T0605903352
Contact Type:	Local Agency Caseworker
Contact Name:	TAMARA ESCOBEDO
Organization Name:	ORANGE COUNTY LOP
Address:	1241 EAST DYER ROAD SUITE 120
City:	SANTA ANA
Email:	tescobedo@ochca.com
Phone Number:	7144336251

U-HAUL (Continued) **S102439445**

LUST:

Global Id:	T0605903352
Action Type:	Other
Date:	12/19/1994
Action:	Leak Reported
Global Id:	T0605903352
Action Type:	ENFORCEMENT
Date:	10/15/1996
Action:	Closure/No Further Action Letter
Global Id:	T0605903352
Action Type:	Other
Date:	12/19/1994
Action:	Leak Discovery

LUST:

Global Id:	T0605903352
Status:	Completed - Case Closed
Status Date:	10/15/1996
Global Id:	T0605903352
Status:	Open - Case Begin Date
Status Date:	12/19/1994

LUST REG 8:

Region:	8
County:	Orange
Regional Board:	Santa Ana Region
Facility Status:	Case Closed
Case Number:	Not reported
Local Case Num:	94UT068
Case Type:	Soil only
Substance:	12035,13
Qty Leaked:	0
Abate Method:	Not reported
Cross Street:	Not reported
Enf Type:	Not reported
Funding:	Not reported
How Discovered:	Tank Closure
How Stopped:	Close Tank
Leak Cause:	Unknown
Leak Source:	Unknown
Global ID:	T0605903352
How Stopped Date:	9/9/9999
Enter Date:	Not reported
Date Confirmation of Leak Began:	Not reported
Date Preliminary Assessment Began:	Not reported
Discover Date:	12/19/1994
Enforcement Date:	Not reported
Close Date:	10/15/1996
Date Prelim Assessment Workplan Submitted:	Not reported
Date Pollution Characterization Began:	Not reported
Date Remediation Plan Submitted:	Not reported
Date Remedial Action Underway:	Not reported

U-HAUL (Continued) **S102439445**

Date Post Remedial Action Monitoring:	Not reported
Enter Date:	Not reported
GW Qualifies:	Not reported
Soil Qualifies:	Not reported
Operator:	Not reported
Facility Contact:	Not reported
Interim:	Not reported
Oversite Program:	LUST
Latitude:	Not reported
Longitude:	Not reported
MTBE Date:	Not reported
Max MTBE GW:	Not reported
MTBE Concentration:	0
Max MTBE Soil:	Not reported
MTBE Fuel:	0
MTBE Tested:	Not Required to be Tested.
MTBE Class:	*
Staff:	Not reported
Staff Initials:	SK
Lead Agency:	Local Agency
Local Agency:	30000L
Hydr Basin #:	Not reported
Beneficial:	MUN
Priority:	Not reported
Cleanup Fund Id:	Not reported
Work Suspended:	Not reported
Summary:	Not reported

CERS TANKS:

Site ID:	192967
CERS ID:	T0605903352
Site Name:	U-HAUL
CERS Description:	Leaking Underground Storage Tank Cleanup Site

Affiliation:

Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	NONE - SANTA ANA RWQCB (REGION 8)
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	RIVERSIDE
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Local Agency Caseworker
Entity Name:	TAMARA ESCOBEDO - ORANGE COUNTY LOP
Entity Title:	Not reported
Affiliation Address:	1241 EAST DYER ROAD SUITE 120
Affiliation City:	SANTA ANA
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	7144336251

P131 **MOBIL #18-FHE** **CA LUST** **S104756926**
SSW **506** **CA HIST CORTESE** **N/A**
1/8-1/4 **FULLERTON, CA 92631**
0.241 mi.
1273 ft. **Site 5 of 6 in cluster P**

Relative:
Lower

Actual:
219 ft.

LUST REG 8:

Region:	8
County:	Orange
Regional Board:	Santa Ana Region
Facility Status:	Pollution Characterization
Case Number:	083000847T
Local Case Num:	Not reported
Case Type:	Aquifer affected
Substance:	Gasoline
Qty Leaked:	Not reported
Abate Method:	Excavate and Dispose - remove contaminated soil and dispose in approved site
Cross Street:	CHAPMAN
Enf Type:	VER
Funding:	Not reported
How Discovered:	OM
How Stopped:	Not reported
Leak Cause:	UNK
Leak Source:	UNK
Global ID:	T0605900668
How Stopped Date:	Not reported
Enter Date:	5/10/1988
Date Confirmation of Leak Began:	Not reported
Date Preliminary Assessment Began:	Not reported
Discover Date:	3/17/1994
Enforcement Date:	Not reported
Close Date:	Not reported
Date Prelim Assessment Workplan Submitted:	5/13/1994
Date Pollution Characterization Began:	3/3/2003
Date Remediation Plan Submitted:	Not reported
Date Remedial Action Underway:	Not reported
Date Post Remedial Action Monitoring:	Not reported
Enter Date:	5/10/1988
GW Qualifies:	=
Soil Qualifies:	Not reported
Operator:	Not reported
Facility Contact:	Not reported
Interim:	Not reported
Oversite Program:	LUST
Latitude:	33.8743107
Longitude:	-117.8894335
MTBE Date:	7/9/2002
Max MTBE GW:	108000
MTBE Concentration:	1
Max MTBE Soil:	Not reported
MTBE Fuel:	1
MTBE Tested:	MTBE Detected. Site tested for MTBE & MTBE detected
MTBE Class:	B
Staff:	RS
Staff Initials:	SRL
Lead Agency:	Regional Board
Local Agency:	30013
Hydr Basin #:	COASTAL PLAIN OF ORA

MOBIL #18-FHE (Continued) **S104756926**

Beneficial: AGR, PROC, IND, MUN
Priority: Not reported
Cleanup Fund Id: Not reported
Work Suspended: Not reported
Summary: Not reported

HIST CORTESE:
Region: CORTESE
Facility County Code: 30
Reg By: LTNKA
Reg Id: 083000847T

N132 SSW 1/8-1/4 0.244 mi. 1288 ft. **DOLLAR TREE #04437**
2465 E CHAPMAN AVE
FULLERTON, CA 92831
CA CERS HAZ WASTE **S117311471**
CA HAZNET **N/A**
CA CERS

Site 4 of 7 in cluster N

Relative: Lower
Actual: 221 ft.

CERS HAZ WASTE:
Site ID: 112165
CERS ID: 10452097
CERS Description: Hazardous Waste Generator

Violations:
Site ID: 112165
Site Name: Dollar Tree #04437
Violation Date: 01-25-2016
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit a site map with all required content.
Violation Notes: Returned to compliance on 03/18/2016. SITE MAP NEEDS UPDATING: Map needs to include, riser location, FDC (fire department connection) location, updated chemical locations, all exits (currently the map shows a rear exit that does not exist and an exit that exists but is not on map) On chemical inventory page show grid number of helium location
Violation Division: Fullerton City Fire Department
Violation Program: HMRRP
Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-18-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: INSPECTOR COMMENTS On site for a routine hazardous waste inspection. Consent to inspect and take any necessary photos was given by Roger Esquivel, Assistant manager. Walked throughout the facility. Observed hazardous waste storage areas. Waste is stored in the back of the store. Containers were closed and properly labeled. Manifests were available and reviewed. Employees are reported to be trained. Emergency plan is posted in the front office. The dumpster/enclosure was observed, no signs of dumping. Ownership and employee count were confirmed.
Eval Division: Orange County Environmental Health
Eval Program: HW

DOLLAR TREE #04437 (Continued) **S117311471**

Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-08-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Walked facility with manager Elena Munoz. No change in inventory. She stated helium quantities fluctuate depending on the time of the year.
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-31-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: NO VIOLATIONS LAST SUBMITTAL VIA CERS 03/3/2016
Eval Division: Fullerton City Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-25-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: SITE MAP NEEDS UPDATING: Map needs to include, riser location, FDC (fire department connection) location, updated chemical locations, all exits (currently the map shows a rear exit that does not exist and an exit that exists but is not on map) On chemical inventory page show grid number of helium location
Eval Division: Fullerton City Fire Department
Eval Program: HMRRP
Eval Source: CERS

Coordinates:
Site ID: 112165
Facility Name: Dollar Tree #04437
Env Int Type Code: HWG
Program ID: 10452097
Coord Name: Not reported
Ref Point Type Desc: Center of a facility or station.
Latitude: 33.874330
Longitude: -117.888060

Affiliation:
Affiliation Type Desc: CUPA District
Entity Name: Orange County Env Health
Entity Title: Not reported
Affiliation Address: 1241 East Dyer RoadSuite 120
Affiliation City: Santa Ana
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92705-5611
Affiliation Phone: (714) 433-6000

Affiliation Type Desc: Environmental Contact

DOLLAR TREE #04437 (Continued) **S117311471**

Entity Name:	Stephanie Caiati
Entity Title:	Not reported
Affiliation Address:	500 Volvo Pkwy
Affiliation City:	Chesapeake
Affiliation State:	VA
Affiliation Country:	Not reported
Affiliation Zip:	23320
Affiliation Phone:	Not reported

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	500 Volvo Pkwy
Affiliation City:	Chesapeake
Affiliation State:	VA
Affiliation Country:	Not reported
Affiliation Zip:	23320
Affiliation Phone:	Not reported

Affiliation Type Desc:	Identification Signer
Entity Name:	Angela Jones
Entity Title:	EH&S Specialist
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Operator
Entity Name:	Dollar Tree Stores, Inc.
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(757) 321-5000

Affiliation Type Desc:	Parent Corporation
Entity Name:	Dollar Tree Stores, Inc.
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Document Preparer
Entity Name:	Angela Jones
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported

DOLLAR TREE #04437 (Continued) **S117311471**

Affiliation Phone: Not reported

Affiliation Type Desc: Legal Owner
Entity Name: Dollar Tree Stores, Inc.
Entity Title: Not reported
Affiliation Address: 500 Volvo Pkwy
Affiliation City: Chesapeake
Affiliation State: VA
Affiliation Country: United States
Affiliation Zip: 23320
Affiliation Phone: (757) 321-5000

Affiliation Type Desc: Property Owner
Entity Name: College Square, L.P. c/o Investment Concepts, Inc.
Entity Title: Not reported
Affiliation Address: 1667 E. Lincoln Avenue
Affiliation City: Orange
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 92865
Affiliation Phone: (714) 283-5800

HAZNET:
Site Name: DOLLAR TREE #04437
Year: 2017
GEPAID: CAL000386584
Contact: ANGELA JONES
Telephone: 7573215761
Mailing Name: Not reported
Mailing Address: 500 VOLVO PKWY
Mailing City,St,Zip: CHESAPEAKE, VA 233201604
Gen County: Orange
TSD EPA ID: CAD008364432
TSD County: Los Angeles
Tons: 0.002
CA Waste Code: 791-Liquids with pH <= 2
Method: H141-Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County: Orange

Site Name: DOLLAR TREE #04437
Year: 2017
GEPAID: CAL000386584
Contact: ANGELA JONES
Telephone: 7573215761
Mailing Name: Not reported
Mailing Address: 500 VOLVO PKWY
Mailing City,St,Zip: CHESAPEAKE, VA 233201604
Gen County: Orange
TSD EPA ID: CAD008364432
TSD County: Los Angeles
Tons: 0.0005
CA Waste Code: 352-Other organic solids
Method: H141-Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County: Orange

DOLLAR TREE #04437 (Continued) **S117311471**

Site Name: DOLLAR TREE #04437
Year: 2017
GEPAID: CAL000386584
Contact: ANGELA JONES
Telephone: 7573215761
Mailing Name: Not reported
Mailing Address: 500 VOLVO PKWY
Mailing City,St,Zip: CHESAPEAKE, VA 233201604
Gen County: Orange
TSD EPA ID: CAD008364432
TSD County: Los Angeles
Tons: 0.0485
CA Waste Code: 331-Off-specification, aged or surplus organics
Method: H141-Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County: Orange

Site Name: DOLLAR TREE #04437
Year: 2017
GEPAID: CAL000386584
Contact: ANGELA JONES
Telephone: 7573215761
Mailing Name: Not reported
Mailing Address: 500 VOLVO PKWY
Mailing City,St,Zip: CHESAPEAKE, VA 233201604
Gen County: Orange
TSD EPA ID: CAD008364432
TSD County: Los Angeles
Tons: 0.0525
CA Waste Code: 214-Unspecified solvent mixture
Method: H141-Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County: Orange

Site Name: DOLLAR TREE #04437
Year: 2017
GEPAID: CAL000386584
Contact: ANGELA JONES
Telephone: 7573215761
Mailing Name: Not reported
Mailing Address: 500 VOLVO PKWY
Mailing City,St,Zip: CHESAPEAKE, VA 233201604
Gen County: Orange
TSD EPA ID: CAD008364432
TSD County: Los Angeles
Tons: 0.002
CA Waste Code: 141-Off-specification, aged or surplus inorganics
Method: H141-Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County: Orange

Click this hyperlink while viewing on your computer to access
21 additional CA_HAZNET: record(s) in the EDR Site Report.

CERS TANKS:
Site ID: 112165
CERS ID: 10452097

DOLLAR TREE #04437 (Continued) **S117311471**

Site Name: DOLLAR TREE #04437
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 112165
Site Name: Dollar Tree #04437
Violation Date: 01-25-2016
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit a site map with all required content.
Violation Notes: Returned to compliance on 03/18/2016. SITE MAP NEEDS UPDATING: Map needs to include, riser location, FDC (fire department connection) location, updated chemical locations, all exits (currently the map shows a rear exit that does not exist and an exit that exists but is not on map) On chemical inventory page show grid number of helium location
Violation Division: Fullerton City Fire Department
Violation Program: HMRRP
Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-18-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: INSPECTOR COMMENTS On site for a routine hazardous waste inspection. Consent to inspect and take any necessary photos was given by Roger Esquivel, Assistant manager. Walked throughout the facility. Observed hazardous waste storage areas. Waste is stored in the back of the store. Containers were closed and properly labeled. Manifests were available and reviewed. Employees are reported to be trained. Emergency plan is posted in the front office. The dumpster/enclosure was observed, no signs of dumping. Ownership and employee count were confirmed.
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-08-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Walked facility with manager Elena Munoz. No change in inventory. She stated helium quantities fluctuate depending on the time of the year.
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-31-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: NO VIOLATIONS LAST SUBMITTAL VIA CERS 03/3/2016
Eval Division: Fullerton City Fire Department
Eval Program: HMRRP
Eval Source: CERS

DOLLAR TREE #04437 (Continued) **S117311471**

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	01-25-2016
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	SITE MAP NEEDS UPDATING: Map needs to include, riser location, FDC (fire department connection) location, updated chemical locations, all exits (currently the map shows a rear exit that does not exist and an exit that exists but is not on map) On chemical inventory page show grid number of helium location
Eval Division:	Fullerton City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS

Coordinates:

Site ID:	112165
Facility Name:	Dollar Tree #04437
Env Int Type Code:	HWG
Program ID:	10452097
Coord Name:	Not reported
Ref Point Type Desc:	Center of a facility or station.
Latitude:	33.874330
Longitude:	-117.888060

Affiliation:

Affiliation Type Desc:	CUPA District
Entity Name:	Orange County Env Health
Entity Title:	Not reported
Affiliation Address:	1241 East Dyer RoadSuite 120
Affiliation City:	Santa Ana
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92705-5611
Affiliation Phone:	(714) 433-6000

Affiliation Type Desc:	Environmental Contact
Entity Name:	Stephanie Caiati
Entity Title:	Not reported
Affiliation Address:	500 Volvo Pkwy
Affiliation City:	Chesapeake
Affiliation State:	VA
Affiliation Country:	Not reported
Affiliation Zip:	23320
Affiliation Phone:	Not reported

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	500 Volvo Pkwy
Affiliation City:	Chesapeake
Affiliation State:	VA
Affiliation Country:	Not reported
Affiliation Zip:	23320
Affiliation Phone:	Not reported

Affiliation Type Desc:	Identification Signer
Entity Name:	Angela Jones

DOLLAR TREE #04437 (Continued) **S117311471**

Entity Title:	EH&S Specialist
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Operator
Entity Name:	Dollar Tree Stores, Inc.
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(757) 321-5000

Affiliation Type Desc:	Parent Corporation
Entity Name:	Dollar Tree Stores, Inc.
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Document Preparer
Entity Name:	Angela Jones
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Legal Owner
Entity Name:	Dollar Tree Stores, Inc.
Entity Title:	Not reported
Affiliation Address:	500 Volvo Pkwy
Affiliation City:	Chesapeake
Affiliation State:	VA
Affiliation Country:	United States
Affiliation Zip:	23320
Affiliation Phone:	(757) 321-5000

Affiliation Type Desc:	Property Owner
Entity Name:	College Square, L.P. c/o Investment Concepts, Inc.
Entity Title:	Not reported
Affiliation Address:	1667 E. Lincoln Avenue
Affiliation City:	Orange
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92865
Affiliation Phone:	(714) 283-5800

P133 SSW 1/8-1/4 0.245 mi. 1295 ft. | **OFFICE DEPOT 2215**
2429 E CHAPMAN AVENUE
FULLERTON, CA 92831

RCRA NonGen / NLR | **1024856643**
CAL000420834

Site 6 of 6 in cluster P

Relative: Lower

Actual: 220 ft.

RCRA NonGen / NLR:

Date form received by agency:	10/10/2016
Facility name:	OFFICE DEPOT 2215
Facility address:	2429 E CHAPMAN AVENUE FULLERTON, CA 92831
EPA ID:	CAL000420834
Mailing address:	6600 N MILITARY TRAIL C456 BOCA RATON, FL 33496-0000
Contact:	ANA FERNANDEZ
Contact address:	6600 N MILITARY TRAIL C456 BOCA RATON, FL 33496
Contact country:	Not reported
Contact telephone:	561-438-7903
Contact email:	ANA.FERNANDEZ@OFFICEDEPOT.COM
EPA Region:	09
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	OFFICE DEPOT INC
Owner/operator address:	6600 N MILITARY TRAIL BOCA RATON, FL 33496
Owner/operator country:	Not reported
Owner/operator telephone:	561-438-4800
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Other
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	ANA FERNANDEZ
Owner/operator address:	6600 N MILITARY TRAIL C456 BOCA RATON, FL 33496
Owner/operator country:	Not reported
Owner/operator telephone:	561-438-7903
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Other
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	Yes
Treater, storer or disposer of HW:	No
Underground injection activity:	No

OFFICE DEPOT 2215 (Continued) **1024856643**

On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Violation Status: No violations found

N134 SSW 1/8-1/4 0.246 mi. 1301 ft. **99 CENTS ONLY STORES** **RCRA NonGen / NLR** **1024832168**
2450 E CHAPMAN AVE **CAL000369855**
FULLERTON, CA 92831

Site 5 of 7 in cluster N

Relative: Lower
Actual: 221 ft.

RCRA NonGen / NLR:

Date form received by agency:	12/06/2011
Facility name:	99 CENTS ONLY STORES
Facility address:	2450 E CHAPMAN AVE FULLERTON, CA 92831
EPA ID:	CAL000369855
Mailing address:	4000 UNION PACIFIC AVENUE COMMERCE, CA 90023
Contact:	EDGAR FLORES
Contact address:	4000 UNION PACIFIC AVE COMMERCE, CA 90023
Contact country:	Not reported
Contact telephone:	323-919-3290
Contact email:	EDGAR.FLORES@99ONLY.COM
EPA Region:	09
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	EDGAR FLORES
Owner/operator address:	4000 UNION PACIFIC AVE COMMERCE, CA 90023
Owner/operator country:	Not reported
Owner/operator telephone:	323-919-3290
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Other
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	99 CENTS ONLY STORES
Owner/operator address:	4000 UNION PACIFIC AVENUE COMMERCE, CA 90023
Owner/operator country:	Not reported
Owner/operator telephone:	323-980-8145
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported

99 CENTS ONLY STORES (Continued) **1024832168**

Legal status: Other
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: Yes
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

N135
SSW
1/8-1/4
0.246 mi.
1301 ft.

99 CENTS ONLY STORES #187 **CA CERS HAZ WASTE** **S112932451**
2450 E CHAPMAN AVE **CA HAZNET** **N/A**
FULLERTON, CA 92831 **CA CERS**

Site 6 of 7 in cluster N

Relative:
Lower

Actual:
221 ft.

CERS HAZ WASTE:
Site ID: 88473
CERS ID: 10451224
CERS Description: Hazardous Waste Generator

Violations:
Site ID: 88473
Site Name: 99 Cents Only Stores #187
Violation Date: 09-29-2017
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit a site map with all required content.
Violation Notes: Returned to compliance on 09/29/2017.
Violation Division: Fullerton City Fire Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 88473
Site Name: 99 Cents Only Stores #187
Violation Date: 06-16-2014
Citation: HSC 6.95 25504(a) - California Health and Safety Code, Chapter 6.95, Section(s) 25504(a)
Violation Description: Failure to complete and/or submit hazardous material inventory forms for all reportable hazardous materials on site.
Violation Notes: Not reported
Violation Division: Orange County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

99 CENTS ONLY STORES #187 (Continued) **S112932451**

Evaluation:

Eval General Type:	Other/Unknown
Eval Date:	01-27-2018
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	2018 SUBMITTAL COMPLETED
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	01-29-2019
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Updated waste stream
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	03-26-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	CERS review: BA/OW page
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	07-15-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Not reported
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	01-28-2019
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	On site to conduct a routine hazardous waste inspection. The inspection was conducted with BJ Mandalia and Jeff Silber (Store Managers). This facility is verified to be owned by 99 CENTS ONLY STORES LLC and currently has 28 employees. Walked throughout the facility and observed the hazardous waste storage area located in the warehouse. This facility currently generates the following hazardous waste: - 1 x 30-gallon container of waste corrosives (acidic) - 1 x 30-galllon container of waste corrosives (basic) - 2 x 30-gallon containers of waste aerosols - 1 x 30-gallon container of waste oxidizers - 1 x 30-gallon container of universal waste Per Mr. Silber, hazardous waste storage areas are currently inspected daily. Hazardous waste manifests were available for review during today?s inspection. The emergency response plan information was available for review near the hazardous waste storage area in the warehouse. No hazardous waste or universal waste was [Truncated]
Eval Division:	Orange County Environmental Health

99 CENTS ONLY STORES #187 (Continued) **S112932451**

Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	02-01-2016
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	On site for the triennial Hazardous Waste (HW) inspection. Permission to inspect granted by 99 Cent Store/Victoria Torres. The site is a small quantity generator (SQG) and is required to have the HW hauled away every 6-9 months. The facility is currently on a monthly haul away cycle. EPA ID # is OK. Manifests were on site and OK. All plastic boxes are sealed closed and properly labeled. Annual training. No HMBEP required by FFD. Review of facility perimeter and trash showed no illegal disposal of HW.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	06-16-2014
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	CHEMICAL INVENTORY IS INCOMPLETE OR NEEDS TO BE UPDATED
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	09-29-2017
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	violations noted. Walked facility with Manager Zachary Kuriki. Business needs to update site map to show new extinguisher locations, riser room and show neighboring facility as a strip mall as occupants move in/out frequently
Eval Division:	Fullerton City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	12-11-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	CERS review: add new HW generator PE to EC
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS

Enforcement Action:

Site ID:	88473
Site Name:	99 Cents Only Stores #187
Site Address:	2450 E CHAPMAN AVE
Site City:	FULLERTON
Site Zip:	92831
Enf Action Date:	06-16-2014
Enf Action Type:	Notice of Violation (Unified Program)

99 CENTS ONLY STORES #187 (Continued) **S112932451**

Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	Orange County Environmental Health
Enf Action Program:	HMRRP
Enf Action Source:	CERS

Coordinates:

Site ID:	88473
Facility Name:	99 Cents Only Stores #187
Env Int Type Code:	HWG
Program ID:	10451224
Coord Name:	Not reported
Ref Point Type Desc:	Center of a facility or station.
Latitude:	33.873410
Longitude:	-117.887860

Affiliation:

Affiliation Type Desc:	Environmental Contact
Entity Name:	EDGAR FLORES
Entity Title:	Not reported
Affiliation Address:	4000 Union Pacific Avenue
Affiliation City:	Commerce
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	90023
Affiliation Phone:	Not reported

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	4000 Union Pacific Avenue
Affiliation City:	Commerce
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	90023
Affiliation Phone:	Not reported

Affiliation Type Desc:	Operator
Entity Name:	99 Cents Only Stores
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(714) 525-9992

Affiliation Type Desc:	CUPA District
Entity Name:	Orange County Env Health
Entity Title:	Not reported
Affiliation Address:	1241 East Dyer RoadSuite 120
Affiliation City:	Santa Ana
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92705-5611
Affiliation Phone:	(714) 433-6000

99 CENTS ONLY STORES #187 (Continued) **S112932451**

Affiliation Type Desc:	Document Preparer
Entity Name:	Chris Thai
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Identification Signer
Entity Name:	Edgar Flores
Entity Title:	Compliance Manager
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Legal Owner
Entity Name:	99 Cents Only Stores
Entity Title:	Not reported
Affiliation Address:	4000 Union Pacific Avenue
Affiliation City:	Commerce
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	90023
Affiliation Phone:	(323) 980-8145

Affiliation Type Desc:	Parent Corporation
Entity Name:	99 Cents Only Stores LLC
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Property Owner
Entity Name:	99 CENTS ONLY STORES
Entity Title:	Not reported
Affiliation Address:	4000 Union Pacific Avenue
Affiliation City:	Commerce
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	90023
Affiliation Phone:	(323) 980-8145

HAZNET:

Site Name:	99 CENTS ONLY STORES INC
Year:	2003
GEPAID:	CAC002569582
Contact:	DAVE MCSHANE
Telephone:	3239808145

99 CENTS ONLY STORES #187 (Continued) **S112932451**

Mailing Name:	Not reported
Mailing Address:	4000 UNION PACFIC AVE
Mailing City,St,Zip:	COMMERCE, CA 90023
Gen County:	Orange
TSD EPA ID:	CAD009007626
TSD County:	Los Angeles
Tons:	33.712
CA Waste Code:	151-Asbestos containing waste
Method:	D80-Disposal, Land Fill
Facility County:	Orange

CERS TANKS:

Site ID:	88473
CERS ID:	10451224
Site Name:	99 CENTS ONLY STORES #187
CERS Description:	Chemical Storage Facilities

Violations:

Site ID:	88473
Site Name:	99 Cents Only Stores #187
Violation Date:	09-29-2017
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit a site map with all required content.
Violation Notes:	Returned to compliance on 09/29/2017.
Violation Division:	Fullerton City Fire Department
Violation Program:	HMRRP
Violation Source:	CERS

Site ID:	88473
Site Name:	99 Cents Only Stores #187
Violation Date:	06-16-2014
Citation:	HSC 6.95 25504(a) - California Health and Safety Code, Chapter 6.95, Section(s) 25504(a)
Violation Description:	Failure to complete and/or submit hazardous material inventory forms for all reportable hazardous materials on site.
Violation Notes:	Not reported
Violation Division:	Orange County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS

Evaluation:

Eval General Type:	Other/Unknown
Eval Date:	01-27-2018
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	2018 SUBMITTAL COMPLETED
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	01-29-2019
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Updated waste stream

99 CENTS ONLY STORES #187 (Continued) **S112932451**

Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	03-26-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	CERS review: BA/OW page
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	07-15-2014
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Not reported
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	01-28-2019
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	On site to conduct a routine hazardous waste inspection. The inspection was conducted with BJ Mandalia and Jeff Silber (Store Managers). This facility is verified to be owned by 99 CENTS ONLY STORES LLC and currently has 28 employees. Walked throughout the facility and observed the hazardous waste storage area located in the warehouse. This facility currently generates the following hazardous waste: - 1 x 30-gallon container of waste corrosives (acidic) - 1 x 30-galllon container of waste corrosives (basic) - 2 x 30-gallon containers of waste aerosols - 1 x 30-gallon container of waste oxidizers - 1 x 30-gallon container of universal waste Per Mr. Silber, hazardous waste storage areas are currently inspected daily. Hazardous waste manifests were available for review during today?s inspection. The emergency response plan information was available for review near the hazardous waste storage area in the warehouse. No hazardous waste or universal waste was [Truncated]
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	02-01-2016
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	On site for the triennial Hazardous Waste (HW) inspection. Permission to inspect granted by 99 Cent Store/Victoria Torres. The site is a small quantity generator (SQG) and is required to have the HW hauled away every 6-9 months. The facility is currently on a monthly haul away cycle. EPA ID # is OK. Manifests were on site and OK. All plastic boxes are sealed closed and properly labeled. Annual training. No HMBEP required by FFD. Review of facility perimeter and trash showed no illegal disposal of HW.

99 CENTS ONLY STORES #187 (Continued) **S112932451**

Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	06-16-2014
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	CHEMICAL INVENTORY IS INCOMPLETE OR NEEDS TO BE UPDATED
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	09-29-2017
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	violations noted. Walked facility with Manager Zachary Kuriki. Business needs to update site map to show new extinguisher locations, riser room and show neighboring facility as a strip mall as occupants move in/out frequently
Eval Division:	Fullerton City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	12-11-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	CERS review: add new HW generator PE to EC
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS

Enforcement Action:

Site ID:	88473
Site Name:	99 Cents Only Stores #187
Site Address:	2450 E CHAPMAN AVE
Site City:	FULLERTON
Site Zip:	92831
Enf Action Date:	06-16-2014
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	Orange County Environmental Health
Enf Action Program:	HMRRP
Enf Action Source:	CERS

Coordinates:

Site ID:	88473
Facility Name:	99 Cents Only Stores #187
Env Int Type Code:	HWG
Program ID:	10451224
Coord Name:	Not reported
Ref Point Type Desc:	Center of a facility or station.
Latitude:	33.873410

99 CENTS ONLY STORES #187 (Continued) **S112932451**

Longitude: -117.887860

Affiliation:

Affiliation Type Desc: Environmental Contact
Entity Name: EDGAR FLORES
Entity Title: Not reported
Affiliation Address: 4000 Union Pacific Avenue
Affiliation City: Commerce
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 90023
Affiliation Phone: Not reported

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 4000 Union Pacific Avenue
Affiliation City: Commerce
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 90023
Affiliation Phone: Not reported

Affiliation Type Desc: Operator
Entity Name: 99 Cents Only Stores
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (714) 525-9992

Affiliation Type Desc: CUPA District
Entity Name: Orange County Env Health
Entity Title: Not reported
Affiliation Address: 1241 East Dyer RoadSuite 120
Affiliation City: Santa Ana
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92705-5611
Affiliation Phone: (714) 433-6000

Affiliation Type Desc: Document Preparer
Entity Name: Chris Thai
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Identification Signer
Entity Name: Edgar Flores
Entity Title: Compliance Manager
Affiliation Address: Not reported

99 CENTS ONLY STORES #187 (Continued) **S112932451**

Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Legal Owner
Entity Name:	99 Cents Only Stores
Entity Title:	Not reported
Affiliation Address:	4000 Union Pacific Avenue
Affiliation City:	Commerce
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	90023
Affiliation Phone:	(323) 980-8145
Affiliation Type Desc:	Parent Corporation
Entity Name:	99 Cents Only Stores LLC
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Property Owner
Entity Name:	99 CENTS ONLY STORES
Entity Title:	Not reported
Affiliation Address:	4000 Union Pacific Avenue
Affiliation City:	Commerce
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	90023
Affiliation Phone:	(323) 980-8145

N136 **SHELL OIL** **CA UST** **U003778893**
SSW **2450 E CHAPMAN AVE** **N/A**
1/8-1/4 **FULLERTON, CA 92831**
0.246 mi.
1301 ft. **Site 7 of 7 in cluster N**

Relative:
Lower

Actual:
221 ft.

UST:

Facility ID:	11504
Permitting Agency:	FULLERTON, CITY OF
Latitude:	33.874539
Longitude:	-117.8865359

T137 **ACE CLEANERS** **CA DRYCLEANERS** **S113014512**
SSW **2453 E CHAPMAN AVE** **CA HAZNET** **N/A**
1/8-1/4 **FULLERTON, CA 92831**
0.247 mi.
1302 ft. **Site 1 of 3 in cluster T**

Relative:
Lower

Actual:
221 ft.

DRYCLEAN SOUTH COAST:

Facility ID:	46511
Application Number:	129210
Permit Number:	M43288
Status:	O
Representative Name:	SE YOUNG OH
Representative Telephone:	714 8711412
Permit Status:	INACTIVE
BCAT Number:	000234
BCAT Description:	DRY CLEANING EQUIP PERCHLOROETHYLENE
CCAT Number:	02
CCAT Description:	ADSORBER (DRY CLEANING) REGENERATIVE
UTM East:	417.8999939
UTM North:	3748.3999023

Facility ID:	100650
Application Number:	290146
Permit Number:	D80944
Status:	A
Representative Name:	KWANG JIN LEE
Representative Telephone:	714 8711412
Permit Status:	INACTIVE
BCAT Number:	000234
BCAT Description:	DRY CLEANING EQUIP PERCHLOROETHYLENE
CCAT Number:	02
CCAT Description:	ADSORBER (DRY CLEANING) REGENERATIVE
UTM East:	417.84500122
UTM North:	3748.3820801

Facility ID:	100650
Application Number:	302532
Permit Number:	D90441
Status:	A
Representative Name:	KWANG JIN LEE
Representative Telephone:	714 8711412
Permit Status:	INACT_NR
BCAT Number:	000601
BCAT Description:	DRY CLEANING, DRY-TO-DRY NON-VENT, PERC
CCAT Number:	02
CCAT Description:	ADSORBER (DRY CLEANING) REGENERATIVE
UTM East:	417.84500122
UTM North:	3748.3820801

HAZNET:

Site Name:	ACE CLEANERS
Year:	2005
GEPAID:	CAD982327900
Contact:	--
Telephone:	--
Mailing Name:	Not reported
Mailing Address:	2453 E CHAPMAN AVE
Mailing City,St,Zip:	FULLERTON, CA 928313603
Gen County:	Orange

ACE CLEANERS (Continued) **S113014512**

TSD EPA ID: NVR000076158
TSD County: 99
Tons: Not reported
CA Waste Code: 211-Halogenated solvents (chloroforms, methyl chloride, perchloroethylene, etc)
Method: -
Facility County: Orange

Site Name: ACE CLEANERS
Year: 2005
GEPAID: CAD982327900
Contact: --
Telephone: --
Mailing Name: Not reported
Mailing Address: 2453 E CHAPMAN AVE
Mailing City,St,Zip: FULLERTON, CA 928313603
Gen County: Orange
TSD EPA ID: NVR000076158
TSD County: 99
Tons: Not reported
CA Waste Code: -
Method: -
Facility County: Orange

Site Name: ACE CLEANERS
Year: 2005
GEPAID: CAD982327900
Contact: --
Telephone: --
Mailing Name: Not reported
Mailing Address: 2453 E CHAPMAN AVE
Mailing City,St,Zip: FULLERTON, CA 928313603
Gen County: Orange
TSD EPA ID: NVR000076158
TSD County: 99
Tons: 0.22935
CA Waste Code: 211-Halogenated solvents (chloroforms, methyl chloride, perchloroethylene, etc)
Method: ***-Invalid Code
Facility County: Orange

Site Name: ACE CLEANERS
Year: 2004
GEPAID: CAD982327900
Contact: --
Telephone: --
Mailing Name: Not reported
Mailing Address: 2453 E CHAPMAN AVE
Mailing City,St,Zip: FULLERTON, CA 928313603
Gen County: Orange
TSD EPA ID: CAD008302903
TSD County: Los Angeles
Tons: 0.22935
CA Waste Code: 211-Halogenated solvents (chloroforms, methyl chloride, perchloroethylene, etc)
Method: R01-Recycler
Facility County: Orange

Site Name: ACE CLEANERS
Year: 2004

ACE CLEANERS (Continued) **S113014512**

GEPAID:	CAD982327900
Contact:	--
Telephone:	--
Mailing Name:	Not reported
Mailing Address:	2453 E CHAPMAN AVE
Mailing City,St,Zip:	FULLERTON, CA 928313603
Gen County:	Orange
TSD EPA ID:	CAD008302903
TSD County:	Los Angeles
Tons:	Not reported
CA Waste Code:	211-Halogenated solvents (chloroforms, methyl chloride, perchloroethylene, etc)
Method:	-
Facility County:	Orange

Click this hyperlink while viewing on your computer to access
14 additional CA_HAZNET: record(s) in the EDR Site Report.

T138 **BERKELEY CLEANERS NO.2** **CA DRYCLEANERS** **S121695392**
SSW **2453 E CHAPMAN** **N/A**
1/8-1/4 **FULLERTON, CA 92632**
0.247 mi.
1302 ft. **Site 2 of 3 in cluster T**

Relative:
Lower

Actual:
221 ft.

DRYCLEAN SOUTH COAST:

Facility ID:	13939
Application Number:	C43073
Permit Number:	Not reported
Status:	O
Representative Name:	Not reported
Representative Telephone:	Not reported
Permit Status:	Not reported
BCAT Number:	000234
BCAT Description:	DRY CLEANING EQUIP PERCHLOROETHYLENE
CCAT Number:	Not reported
CCAT Description:	Not reported
UTM East:	0
UTM North:	0

Facility ID:	13939
Application Number:	C43864
Permit Number:	M27770
Status:	O
Representative Name:	Not reported
Representative Telephone:	Not reported
Permit Status:	INACTIVE
BCAT Number:	000234
BCAT Description:	DRY CLEANING EQUIP PERCHLOROETHYLENE
CCAT Number:	Not reported
CCAT Description:	Not reported
UTM East:	0
UTM North:	0

Facility ID:	13939
Application Number:	107698
Permit Number:	M35282
Status:	O
Representative Name:	Not reported
Representative Telephone:	Not reported

BERKELEY CLEANERS NO.2 (Continued) **S121695392**

Permit Status:	INACTIVE
BCAT Number:	000234
BCAT Description:	DRY CLEANING EQUIP PERCHLOROETHYLENE
CCAT Number:	Not reported
CCAT Description:	Not reported
UTM East:	0
UTM North:	0

T139 **SHELL SERVICE STATION** **CA LUST** **S104791744**
SSW **2450** **CA HIST CORTESE** **N/A**
1/4-1/2 **FULLERTON, CA 92631**
0.256 mi.
1350 ft. **Site 3 of 3 in cluster T**

Relative:
Lower

Actual:
221 ft.

LUST REG 8:

Region:	8
County:	Orange
Regional Board:	Santa Ana Region
Facility Status:	Remedial action (cleanup) Underway
Case Number:	083000364T
Local Case Num:	Not reported
Case Type:	Soil only
Substance:	Gasoline
Qty Leaked:	1500
Abate Method:	Excavate and Treat - remove contaminated soil and treat (includes spreading or land farming)
Cross Street:	STATE COLLEGE
Enf Type:	Not reported
Funding:	Not reported
How Discovered:	Not reported
How Stopped:	Not reported
Leak Cause:	Not reported
Leak Source:	Not reported
Global ID:	T0605900289
How Stopped Date:	Not reported
Enter Date:	5/21/1987
Date Confirmation of Leak Began:	Not reported
Date Preliminary Assessment Began:	Not reported
Discover Date:	Not reported
Enforcement Date:	Not reported
Close Date:	Not reported
Date Prelim Assessment Workplan Submitted:	Not reported
Date Pollution Characterization Began:	Not reported
Date Remediation Plan Submitted:	Not reported
Date Remedial Action Underway:	2/19/1987
Date Post Remedial Action Monitoring:	Not reported
Enter Date:	5/21/1987
GW Qualifies:	Not reported
Soil Qualifies:	Not reported
Operator:	Not reported
Facility Contact:	Not reported
Interim:	Not reported
Oversite Program:	LUST
Latitude:	33.8741297
Longitude:	-117.8882535
MTBE Date:	Not reported
Max MTBE GW:	Not reported
MTBE Concentration:	0

SHELL SERVICE STATION (Continued) **S104791744**

Max MTBE Soil:	Not reported
MTBE Fuel:	1
MTBE Tested:	Site NOT Tested for MTBE.Includes Unknown and Not Analyzed.
MTBE Class:	*
Staff:	CAB
Staff Initials:	SRL
Lead Agency:	Local Agency
Local Agency:	30013
Hydr Basin #:	COASTAL PLAIN OF ORA
Beneficial:	Not reported
Priority:	Not reported
Cleanup Fund Id:	Not reported
Work Suspended:	Not reported
Summary:	NO FILE NO FILE NO FILE NO FILE

HIST CORTESE:

Region:	CORTESE
Facility County Code:	30
Reg By:	LTNKA
Reg Id:	083000364T

U140 **SHELL SERVICE STATION** **CA LUST** **S104791772**
SSW **2340 CHAPMAN** **CA HIST CORTESE** **N/A**
1/4-1/2 **FULLERTON, CA 92631**
0.257 mi.
1358 ft. **Site 1 of 2 in cluster U**

Relative:
Lower

Actual:
217 ft.

LUST REG 8:

Region:	8
County:	Orange
Regional Board:	Santa Ana Region
Facility Status:	Case Closed
Case Number:	083000918T
Local Case Num:	Not reported
Case Type:	Aquifer affected
Substance:	Gasoline
Qty Leaked:	Not reported
Abate Method:	Not reported
Cross Street:	STATE COLLEGE
Enf Type:	Not reported
Funding:	Federal Funds
How Discovered:	Not reported
How Stopped:	Not reported
Leak Cause:	Not reported
Leak Source:	Not reported
Global ID:	T0605900731
How Stopped Date:	Not reported
Enter Date:	6/20/1988
Date Confirmation of Leak Began:	Not reported
Date Preliminary Assessment Began:	Not reported
Discover Date:	Not reported
Enforcement Date:	Not reported
Close Date:	8/17/1993
Date Prelim Assessment Workplan Submitted:	Not reported
Date Pollution Characterization Began:	Not reported

SHELL SERVICE STATION (Continued) **S104791772**

Date Remediation Plan Submitted:	7/27/1992
Date Remedial Action Underway:	Not reported
Date Post Remedial Action Monitoring:	Not reported
Enter Date:	6/20/1988
GW Qualifies:	Not reported
Soil Qualifies:	Not reported
Operator:	Not reported
Facility Contact:	Not reported
Interim:	Not reported
Oversite Program:	LUST
Latitude:	33.8741237
Longitude:	-117.8908186
MTBE Date:	Not reported
Max MTBE GW:	Not reported
MTBE Concentration:	0
Max MTBE Soil:	Not reported
MTBE Fuel:	1
MTBE Tested:	Site NOT Tested for MTBE.Includes Unknown and Not Analyzed.
MTBE Class:	*
Staff:	CAB
Staff Initials:	SRL
Lead Agency:	Local Agency
Local Agency:	30013
Hydr Basin #:	COASTAL PLAIN OF ORA
Beneficial:	Not reported
Priority:	Not reported
Cleanup Fund Id:	Not reported
Work Suspended:	Not reported
Summary:	LUSTIS SHOWED CASE CLOSED ON 6/27/88

HIST CORTESE:

Region:	CORTESE
Facility County Code:	30
Reg By:	LTNKA
Reg Id:	083000918T

U141 **SHELL #2340** **CA LUST** **U001577001**
SSW **2340 E CHAPMAN AVE** **CA HIST UST** **N/A**
1/4-1/2 **FULLERTON, CA 92631** **CA CERS**
0.257 mi.
1358 ft. **Site 2 of 2 in cluster U**

Relative:
Lower

Actual:
217 ft.

LUST:

Lead Agency:	FULLERTON, CITY OF
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0605900731
Global Id:	T0605900731
Latitude:	33.8742409
Longitude:	-117.8908668
Status:	Completed - Case Closed
Status Date:	08/17/1993
Case Worker:	SRL
RB Case Number:	083000918T
Local Agency:	FULLERTON, CITY OF
File Location:	Not reported
Local Case Number:	Not reported
Potential Media Affect:	Aquifer used for drinking water supply

SHELL #2340 (Continued) **U001577001**

Potential Contaminants of Concern: Gasoline
Site History: Not reported

LUST:
Global Id: T0605900731
Contact Type: Regional Board Caseworker
Contact Name: CARL BERNHARDT
Organization Name: SANTA ANA RWQCB (REGION 8)
Address: 3737 MAIN STREET, SUITE 500
City: RIVERSIDE
Email: carl.bernhardt@waterboards.ca.gov
Phone Number: 9517824495

Global Id: T0605900731
Contact Type: Local Agency Caseworker
Contact Name: STEPHEN LONG
Organization Name: FULLERTON, CITY OF
Address: 312 E. COMMONWEALTH AVE.
City: FULLERTON
Email: stevel@fullertonfire.org
Phone Number: 7147383160

LUST:
Global Id: T0605900731
Action Type: Other
Date: 05/08/1985
Action: Leak Reported

Global Id: T0605900731
Action Type: RESPONSE
Date: 07/12/2005
Action: Correspondence

LUST:
Global Id: T0605900731
Status: Completed - Case Closed
Status Date: 08/17/1993

Global Id: T0605900731
Status: Open - Case Begin Date
Status Date: 05/08/1985

Global Id: T0605900731
Status: Open - Remediation
Status Date: 07/27/1992

ORANGE CO. LUST:
Region: ORANGE
Facility Id: 84UT024
Released Substance: Gasoline-Automotive (motor gasoline and additives), leaded & unleaded
Date Closed: 04/01/1991
Record ID: RO0001227

HIST UST:
File Number: 0002EE06

SHELL #2340 (Continued) **U001577001**

URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002EE06.pdf
Region:	STATE
Facility ID:	00000022415
Facility Type:	Gas Station
Other Type:	Not reported
Contact Name:	MIKE KURKDJIAN
Telephone:	7147389584
Owner Name:	SHELL OIL COMPANY
Owner Address:	P.O. BOX 4848
Owner City,St,Zip:	ANAHEIM, CA 92803
Total Tanks:	0005
Tank Num:	001
Container Num:	1
Year Installed:	1963
Tank Capacity:	00004000
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	3/16
Leak Detection:	Stock Inventor, 10
Tank Num:	002
Container Num:	2
Year Installed:	1963
Tank Capacity:	00000550
Tank Used for:	WASTE
Type of Fuel:	WASTE OIL
Container Construction Thickness:	12
Leak Detection:	None
Tank Num:	003
Container Num:	3
Year Installed:	1963
Tank Capacity:	00006000
Tank Used for:	PRODUCT
Type of Fuel:	REGULAR
Container Construction Thickness:	1/4
Leak Detection:	None
Tank Num:	004
Container Num:	4
Year Installed:	1963
Tank Capacity:	00004000
Tank Used for:	PRODUCT
Type of Fuel:	PREMIUM
Container Construction Thickness:	1/4
Leak Detection:	None
Tank Num:	005
Container Num:	5
Year Installed:	1970
Tank Capacity:	00008000
Tank Used for:	PRODUCT
Type of Fuel:	PREMIUM
Container Construction Thickness:	1/4
Leak Detection:	None

SHELL #2340 (Continued) **U001577001**

Click here for Geo Tracker PDF:

CERS TANKS:

Site ID:	208499
CERS ID:	T0605900731
Site Name:	SHELL #2340
CERS Description:	Leaking Underground Storage Tank Cleanup Site

Affiliation:

Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	CARL BERNHARDT - SANTA ANA RWQCB (REGION 8)
Entity Title:	Not reported
Affiliation Address:	3737 MAIN STREET, SUITE 500
Affiliation City:	RIVERSIDE
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	9517824495

Affiliation Type Desc:	Local Agency Caseworker
Entity Name:	STEPHEN LONG - FULLERTON, CITY OF
Entity Title:	Not reported
Affiliation Address:	312 E. COMMONWEALTH AVE.
Affiliation City:	FULLERTON
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	7147383160

R142 **FULLERTON UNIVERSITY SHOPPING CENTER** **CA ENVIROSTOR** **S106541933**
NE **2940/2948 YORBA LINDA BLVD.** **CA Orange Co. Industrial Site** **N/A**
1/4-1/2 **FULLERTON, CA 92831**
0.264 mi.
1393 ft. **Site 7 of 7 in cluster R**

Relative:
Higher

Actual:
276 ft.

ENVIROSTOR:

Facility ID:	30590006
Status:	Refer: 1248 Local Agency
Status Date:	06/10/2004
Site Code:	Not reported
Site Type:	Evaluation
Site Type Detailed:	Evaluation
Acres:	Not reported
NPL:	NO
Regulatory Agencies:	NONE SPECIFIED
Lead Agency:	NONE SPECIFIED
Program Manager:	Not reported
Supervisor:	Referred - Not Assigned
Division Branch:	Cleanup Cypress
Assembly:	72
Senate:	Not reported
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Not Applicable
Latitude:	33.88737
Longitude:	-117.8765

FULLERTON UNIVERSITY SHOPPING CENTER (Continued) **S106541933**

APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: 30590006
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

Orange Co. Industrial Site:
Case ID: 04IC014
Record ID: RO0003309
Current Status: CLOSED 1/27/2015
Closure Type: Voluntary Cleanup Program Termination
Released Chemical: PERCHLOROETHYLENE; TRICHLOROETHYLENE

V143 **STATION #4629** **CA LUST** **U001577745**
SSE **820 W CHAPMAN AVE** **CA HIST UST** **N/A**
1/4-1/2 **PLACENTIA, CA 92670**
0.265 mi.
1399 ft. **Site 1 of 2 in cluster V**

Relative:
Lower

Actual:
229 ft.

ORANGE CO. LUST:
Region: ORANGE
Facility Id: 93UT040
Released Substance: Gasoline-Automotive (motor gasoline and additives), leaded & unleaded
Date Closed: 01/31/2012
Record ID: RO0001920

HIST UST:
File Number: Not reported
URL: Not reported
Region: STATE
Facility ID: 00000043700
Facility Type: Gas Station
Other Type: Not reported
Contact Name: GILBERT CORTLAND
Telephone: 7145282904
Owner Name: UNION OIL COMPANY OF CALIFORNI
Owner Address: 1450 FRAZEE ROAD
Owner City,St,Zip: SAN DIEGO, CA 92108

STATION #4629 (Continued) **U001577745**

Total Tanks: 0001

Tank Num: 001
Container Num: 4629-00
Year Installed: 1960
Tank Capacity: 00000000
Tank Used for: WASTE
Type of Fuel: Not reported
Container Construction Thickness: 6
Leak Detection: Visual

V144 **UNOCAL #4629** **CA LUST** **S104748594**
SSE **820** **CA HIST CORTESE** **N/A**
1/4-1/2 **PLACENTIA, CA 92670** **CA CERS**
0.313 mi.
1652 ft. **Site 2 of 2 in cluster V**

Relative:
Lower

Actual:
227 ft.

LUST:
Lead Agency: ORANGE COUNTY LOP
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0605901644
Global Id: T0605901644
Latitude: 33.8735908
Longitude: -117.8777941
Status: Completed - Case Closed
Status Date: 01/31/2012
Case Worker: TE
RB Case Number: 083002244T
Local Agency: ORANGE COUNTY LOP
File Location: Local Agency
Local Case Number: 93UT040
Potential Media Affect: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: Gasoline
Site History: Please refer to recent Site Documents or Monitoring Reports in GeoTracker for site history. Orange County is not responsible for the accuracy of any professional interpretations provided in reports submitted by consultants for the responsible party.

LUST:
Global Id: T0605901644
Contact Type: Regional Board Caseworker
Contact Name: NANCY OLSON-MARTIN
Organization Name: SANTA ANA RWQCB (REGION 8)
Address: 3737 MAIN STREET, SUITE 500
City: RIVERSIDE
Email: nolson-martin@waterboards.ca.gov
Phone Number: Not reported

Global Id: T0605901644
Contact Type: Local Agency Caseworker
Contact Name: TAMARA ESCOBEDO
Organization Name: ORANGE COUNTY LOP
Address: 1241 EAST DYER ROAD SUITE 120
City: SANTA ANA
Email: tescobedo@ochca.com
Phone Number: 7144336251

UNOCAL #4629 (Continued) **S104748594**

LUST:

Global Id: T0605901644
Action Type: Other
Date: 01/08/1993
Action: Leak Reported

Global Id: T0605901644
Action Type: ENFORCEMENT
Date: 07/28/2009
Action: Staff Letter

Global Id: T0605901644
Action Type: ENFORCEMENT
Date: 07/08/2009
Action: Staff Letter

Global Id: T0605901644
Action Type: ENFORCEMENT
Date: 09/23/2009
Action: Staff Letter

Global Id: T0605901644
Action Type: ENFORCEMENT
Date: 06/13/2011
Action: Staff Letter

Global Id: T0605901644
Action Type: ENFORCEMENT
Date: 01/10/2011
Action: File review

Global Id: T0605901644
Action Type: ENFORCEMENT
Date: 06/13/2011
Action: File Review - Closure

Global Id: T0605901644
Action Type: ENFORCEMENT
Date: 06/13/2011
Action: Notification - Public Notice of Case Closure

Global Id: T0605901644
Action Type: ENFORCEMENT
Date: 06/13/2011
Action: Notification - Public Notice of Case Closure

Global Id: T0605901644
Action Type: ENFORCEMENT
Date: 07/26/2011
Action: Staff Letter

Global Id: T0605901644
Action Type: ENFORCEMENT
Date: 01/31/2012
Action: Closure/No Further Action Letter

Global Id: T0605901644

UNOCAL #4629 (Continued) **S104748594**

Action Type:	Other
Date:	12/28/1992
Action:	Leak Discovery

LUST:

Global Id:	T0605901644
Status:	Completed - Case Closed
Status Date:	01/31/2012
Global Id:	T0605901644
Status:	Open - Case Begin Date
Status Date:	12/28/1992
Global Id:	T0605901644
Status:	Open - Site Assessment
Status Date:	03/15/1996
Global Id:	T0605901644
Status:	Open - Verification Monitoring
Status Date:	04/01/2009

LUST REG 8:

Region:	8
County:	Orange
Regional Board:	Santa Ana Region
Facility Status:	Pollution Characterization
Case Number:	083002244T
Local Case Num:	93UT040
Case Type:	Other ground water affected
Substance:	Gasoline
Qty Leaked:	0
Abate Method:	Not reported
Cross Street:	Not reported
Enf Type:	Not reported
Funding:	Not reported
How Discovered:	Tank Closure
How Stopped:	Close Tank
Leak Cause:	Unknown
Leak Source:	Unknown
Global ID:	T0605901644
How Stopped Date:	9/9/9999
Enter Date:	Not reported
Date Confirmation of Leak Began:	Not reported
Date Preliminary Assessment Began:	Not reported
Discover Date:	12/28/1992
Enforcement Date:	Not reported
Close Date:	Not reported
Date Prelim Assessment Workplan Submitted:	Not reported
Date Pollution Characterization Began:	3/15/1996
Date Remediation Plan Submitted:	Not reported
Date Remedial Action Underway:	Not reported
Date Post Remedial Action Monitoring:	Not reported
Enter Date:	Not reported
GW Qualifies:	=
Soil Qualifies:	Not reported

UNOCAL #4629 (Continued) **S104748594**

Operator:	Not reported
Facility Contact:	Not reported
Interim:	Not reported
Oversite Program:	LUST
Latitude:	33.8735908
Longitude:	-117.8777941
MTBE Date:	10/5/2001
Max MTBE GW:	20
MTBE Concentration:	0
Max MTBE Soil:	Not reported
MTBE Fuel:	1
MTBE Tested:	MTBE Detected. Site tested for MTBE & MTBE detected
MTBE Class:	*
Staff:	NOM
Staff Initials:	SK
Lead Agency:	Local Agency
Local Agency:	30000L
Hydr Basin #:	Not reported
Beneficial:	GWR
Priority:	Not reported
Cleanup Fund Id:	Not reported
Work Suspended:	Not reported
Summary:	Not reported

HIST CORTESE:

Region:	CORTESE
Facility County Code:	30
Reg By:	LTNKA
Reg Id:	083002244T

CERS TANKS:

Site ID:	219470
CERS ID:	T0605901644
Site Name:	UNOCAL #4629
CERS Description:	Leaking Underground Storage Tank Cleanup Site

Affiliation:

Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	NANCY OLSON-MARTIN - SANTA ANA RWQCB (REGION 8)
Entity Title:	Not reported
Affiliation Address:	3737 MAIN STREET, SUITE 500
Affiliation City:	RIVERSIDE
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Local Agency Caseworker
Entity Name:	TAMARA ESCOBEDO - ORANGE COUNTY LOP
Entity Title:	Not reported
Affiliation Address:	1241 EAST DYER ROAD SUITE 120
Affiliation City:	SANTA ANA
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	7144336251

W145 ENE 1/4-1/2 0.357 mi. 1883 ft. | **UNIVERSITY SHELL**
2960 YORBA LINDA BLVD
FULLERTON, CA 92631

Site 1 of 9 in cluster W

Relative: Higher

Actual: 277 ft.

CA CERS HAZ WASTE
CA SWEEPS UST
CA FID UST
CA CERS TANKS
CA HIST CORTESE
CA CERS

S101589254
N/A

CERS HAZ WASTE:

Site ID:	417108
CERS ID:	10563184
CERS Description:	Hazardous Waste Generator

Violations:

Site ID:	417108
Site Name:	UNIVERSITY SHELL
Violation Date:	11-19-2018
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes:	Returned to compliance on 11/19/2018. Federal hazard categories were obsolete.
Violation Division:	Fullerton City Fire Department
Violation Program:	HMRRP
Violation Source:	CERS

Site ID:	417108
Site Name:	UNIVERSITY SHELL
Violation Date:	07-01-2013
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes:	Not reported
Violation Division:	Orange County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS

Site ID:	417108
Site Name:	UNIVERSITY SHELL
Violation Date:	07-07-2015
Citation:	23 CCR 16 2715(c)(2) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(c)(2)
Violation Description:	Failure to comply with one or more of the following: maintain the spill bucket in good condition, containment free of debris/liquid, and/or to remove the contents of the spill bucket when a release/leak/spill was observed.
Violation Notes:	Returned to compliance on 07/07/2015. 91 fill bucket failed testing. Repaired and retested at time of inspection.
Violation Division:	Fullerton City Fire Department
Violation Program:	UST
Violation Source:	CERS

Site ID:	417108
Site Name:	UNIVERSITY SHELL
Violation Date:	11-22-2016
Citation:	HSC 6.95 25508.2 - California Health and Safety Code, Chapter 6.95, Section(s) 25508.2

UNIVERSITY SHELL (Continued) **S101589254**

Violation Description:	Failure to annually review and electronically certify that the business plan is complete and accurate on or before the annual due date.
Violation Notes:	Returned to compliance on 02/13/2017. Due to transfer of facility files from esubmit, facility was unable to certify its BEP. In order to ensure the transfer was completed facility was given to 3/1/17 to certify.
Violation Division:	Fullerton City Fire Department
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	417108
Site Name:	UNIVERSITY SHELL
Violation Date:	11-22-2016
Citation:	23 CCR 16 2641(j) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2641(j)
Violation Description:	Failure of the leak detection equipment to be installed, calibrated, operated, and/or maintained properly.
Violation Notes:	Returned to compliance on 11/22/2016. 91 fill sump sensor failed testing. Replaced and retested at time of inspection.
Violation Division:	Fullerton City Fire Department
Violation Program:	UST
Violation Source:	CERS
Site ID:	417108
Site Name:	UNIVERSITY SHELL
Violation Date:	07-06-2016
Citation:	23 CCR 16 2715(f) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(f)
Violation Description:	Failure to have at least one employee present during operating hours that has been trained in the proper operation and maintenance of the UST system by a designated operator (DO).
Violation Notes:	Returned to compliance on 07/28/2016. Two employees were past due for training.
Violation Division:	Fullerton City Fire Department
Violation Program:	UST
Violation Source:	CERS
Site ID:	417108
Site Name:	UNIVERSITY SHELL
Violation Date:	11-19-2018
Citation:	HSC 6.75 25299.30-25299.34 - California Health and Safety Code, Chapter 6.75, Section(s) 25299.30-25299.34
Violation Description:	Failure to submit and maintain complete and current Certification of Financial Responsibility or other mechanism of financial assurance.
Violation Notes:	Returned to compliance on 01/10/2019. CFO letter expired
Violation Division:	Fullerton City Fire Department
Violation Program:	UST
Violation Source:	CERS
Site ID:	417108
Site Name:	UNIVERSITY SHELL
Violation Date:	07-07-2015
Citation:	HSC 6.75 25299.30-25299.34 - California Health and Safety Code, Chapter 6.75, Section(s) 25299.30-25299.34
Violation Description:	Failure to submit and maintain complete and current Certification of Financial Responsibility or other mechanism of financial assurance.

UNIVERSITY SHELL (Continued) **S101589254**

Violation Notes: Returned to compliance on 08/17/2015. CFO letter out of date. Submitted via esubmit.
Violation Division: Fullerton City Fire Department
Violation Program: UST
Violation Source: CERS

Site ID: 417108
Site Name: UNIVERSITY SHELL
Violation Date: 11-22-2016
Citation: HSC 6.75 25299.30-25299.34 - California Health and Safety Code, Chapter 6.75, Section(s) 25299.30-25299.34
Violation Description: Failure to submit and maintain complete and current Certification of Financial Responsibility or other mechanism of financial assurance.
Violation Notes: Returned to compliance on 08/10/2017. Failure to submit current CFO letter. Due to transfer of facility files from esubmit to CERS. Facility was given an extended deadline to comply.
Violation Division: Fullerton City Fire Department
Violation Program: UST
Violation Source: CERS

Site ID: 417108
Site Name: UNIVERSITY SHELL
Violation Date: 07-06-2016
Citation: 23 CCR 16 2712(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(i)
Violation Description: Failure to have a UST Monitoring Plan available on site.
Violation Notes: Returned to compliance on 07/08/2016.
Violation Division: Fullerton City Fire Department
Violation Program: UST
Violation Source: CERS

Site ID: 417108
Site Name: UNIVERSITY SHELL
Violation Date: 07-01-2013
Citation: 23 CCR 16 2665 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2665
Violation Description: Failure of the overfill prevention system to meet one of the following requirements: 1. Alert the transfer operator when the tank is 90 percent full by restricting the flow into the tank or triggering an audible and visual alarm; or 2. Restrict delivery of flow to the tank at least 30 minutes before the tank overfills, provided the restriction occurs when the tank is filled to no more than 95 percent of capacity; and activate an audible alarm at least five minutes before the tank overfills; or 3. Provide positive shut-off of flow to the tank when the tank is filled to no more than 95 percent of capacity; or 4. Provide positive shut-off of flow to the tank so that none of the fittings located on the top of the tank are exposed to product due to overfilling.
Violation Notes: Not reported
Violation Division: Orange County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 417108
Site Name: UNIVERSITY SHELL
Violation Date: 11-16-2017
Citation: 23 CCR 16 2665 - California Code of Regulations, Title 23, Chapter 16,

UNIVERSITY SHELL (Continued) **S101589254**

	Section(s) 2665
Violation Description:	Failure of the overfill prevention system to meet one of the following requirements: Alert the transfer operator when the tank is 90 percent full by restricting the flow into the tank or triggering an audible and visual alarm; or Restrict delivery of flow to the tank at least 30 minutes before the tank overfills, provided the restriction occurs when the tank is filled to no more than 95 percent of capacity; and activate an audible alarm at least five minutes before the tank overfills; or Provide positive shut-off of flow to the tank when the tank is filled to no more than 95 percent of capacity; or Provide positive shut-off of flow to the tank so that none of the fittings located on the top of the tank are exposed to product due to overfilling.
Violation Notes:	Returned to compliance on 11/16/2017. Overfill alarm audio annunciator failed to function. Passed retest.
Violation Division:	Fullerton City Fire Department
Violation Program:	UST
Violation Source:	CERS
Site ID:	417108
Site Name:	UNIVERSITY SHELL
Violation Date:	07-07-2015
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit a site map with all required content.
Violation Notes:	Returned to compliance on 08/19/2015. Site map was outdated. Updated via CERS.
Violation Division:	Fullerton City Fire Department
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	417108
Site Name:	UNIVERSITY SHELL
Violation Date:	07-07-2015
Citation:	23 CCR 16 2636(f)(2) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2636(f)(2)
Violation Description:	Failure of the pressurized piping to meet one or more of the following requirements: monitored at least hourly with the capability of detecting a release of 3.0 gallons per hour, and will restrict the flow of product through the piping or trigger an alarm when a release occurs.
Violation Notes:	Returned to compliance on 07/07/2015. 87 PLLD failed testing due to a faulty siphon jet valve, Retested during inspection.
Violation Division:	Fullerton City Fire Department
Violation Program:	UST
Violation Source:	CERS
Site ID:	417108
Site Name:	UNIVERSITY SHELL
Violation Date:	11-19-2018
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit a site map with all required content.
Violation Notes:	Returned to compliance on 11/19/2018. Site map failed to transfer from esubmit.

UNIVERSITY SHELL (Continued) **S101589254**

Violation Division: Fullerton City Fire Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 417108
Site Name: UNIVERSITY SHELL
Violation Date: 07-07-2015
Citation: HSC 6.11 25404(e)(4) - California Health and Safety Code, Chapter 6.11, Section(s) 25404(e)(4)
Violation Description: Failure to report program data electronically.
Violation Notes: Returned to compliance on 08/17/2015. forms submitted via esubmit
Violation Division: Fullerton City Fire Department
Violation Program: UST
Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-07-2015
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Fullerton City Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-16-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Monitor certification performed this date.
Eval Division: Fullerton City Fire Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-19-2018
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Monitor certification performed this date.
Eval Division: Fullerton City Fire Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-07-2015
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Monitor certification performed at time of inspection.
Eval Division: Fullerton City Fire Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-18-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: On site for the triennial Hazardous Waste (HW) inspection. Permission

UNIVERSITY SHELL (Continued) **S101589254**

to inspect granted by University Shell/Chen. EPA ID # OK. Facility is a Conditionally Exempt Small Quantity Generator (CESQG) and must have the HW hauled away within 90 days after 27 gallons have been accumulated. Last manifest (UST related testing waste) was 11-2012. No HW was being stored on site at this time. FFD HMBEP on file. **NOTE** the waste soil generated as part of the car wash construction may need to be managed as HW. Please make sure the consultant tests the waste before disposal. Perimeter and trash had no HW. ER card on site and posted.

Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-06-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Monitor certification performed this date.
Eval Division: Fullerton City Fire Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 07-08-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Reinspection to confirm presence of monitoring plan onsite.
Eval Division: Fullerton City Fire Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 07-15-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-16-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: No violations observed.
Eval Division: Fullerton City Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-19-2018
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Fullerton City Fire Department
Eval Program: HMRRP
Eval Source: CERS

UNIVERSITY SHELL (Continued) **S101589254**

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	02-21-2019
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	On site to conduct a routine hazardous waste inspection. This facility is verified to be owned by H C INTERNATIONAL CORP and currently has 8 employees. Walked throughout the facility and observed the outdoor trash/dumpster enclosure area. Observed two stacked and closed 55-gallon metal drums. Mr. Lau stated that he is unaware of the contents in the drums or if the facility generates hazardous waste. A follow-up will be conducted by this agency. The facility owner/contact on file will be contacted by this agency to verify the contents of the metal drums and status of the facility.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-01-2013
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	chemical inventory needs to be updated
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-01-2013
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	FAILURE TO MAINTAIN OVERFILL AND OVERSPILL DEVICES
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-06-2016
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	No violations observed.
Eval Division:	Fullerton City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	11-22-2016
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Fullerton City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	11-22-2016
Violations Found:	Yes
Eval Type:	Routine done by local agency

UNIVERSITY SHELL (Continued) **S101589254**

Eval Notes:	Monitor certification witnessed due to cold start. Anniversary date changed to this date, so a full inspection was conducted.
Eval Division:	Fullerton City Fire Department
Eval Program:	UST
Eval Source:	CERS

Enforcement Action:

Site ID:	417108
Site Name:	UNIVERSITY SHELL
Site Address:	2960 YORBA LINDA BLVD
Site City:	FULLERTON
Site Zip:	92831
Enf Action Date:	07-01-2013
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	Orange County Environmental Health
Enf Action Program:	HMRRP
Enf Action Source:	CERS

Site ID:	417108
Site Name:	UNIVERSITY SHELL
Site Address:	2960 YORBA LINDA BLVD
Site City:	FULLERTON
Site Zip:	92831
Enf Action Date:	07-01-2013
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	Orange County Environmental Health
Enf Action Program:	UST
Enf Action Source:	CERS

Coordinates:

Site ID:	417108
Facility Name:	UNIVERSITY SHELL
Env Int Type Code:	HMBP
Program ID:	10563184
Coord Name:	Not reported
Ref Point Type Desc:	Center of a facility or station.
Latitude:	33.888800
Longitude:	-117.875050

Affiliation:

Affiliation Type Desc:	CUPA District
Entity Name:	Orange County Env Health
Entity Title:	Not reported
Affiliation Address:	1241 East Dyer RoadSuite 120
Affiliation City:	Santa Ana
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92705-5611
Affiliation Phone:	(714) 433-6000

Affiliation Type Desc:	Environmental Contact
Entity Name:	Tony Chen

UNIVERSITY SHELL (Continued) **S101589254**

Entity Title: Not reported
Affiliation Address: 2960 Yorba Linda Blvd
Affiliation City: Fullerton
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92831
Affiliation Phone: Not reported

Affiliation Type Desc: Document Preparer
Entity Name: Olivia Chen
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 2960 YORBA LINDA BLVD
Affiliation City: FULLERTON
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92831
Affiliation Phone: Not reported

Affiliation Type Desc: Parent Corporation
Entity Name: UNIVERSITY SHELL
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: UST Tank Operator
Entity Name: Tony and Hilda Chen
Entity Title: Not reported
Affiliation Address: 2960 Yorba Linda Bl.
Affiliation City: Fullerton
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 92831
Affiliation Phone: (714) 996-8002

Affiliation Type Desc: UST Tank Owner
Entity Name: Tony and Hilda Chen
Entity Title: Not reported
Affiliation Address: 2960 Yorba Linda Bl.
Affiliation City: Fullerton
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 92831
Affiliation Phone: (714) 996-8002

UNIVERSITY SHELL (Continued) **S101589254**

Affiliation Type Desc:	Identification Signer
Entity Name:	Hilda Chen
Entity Title:	Co-Owner
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Legal Owner
Entity Name:	H C INTERNATIONAL CORP
Entity Title:	Not reported
Affiliation Address:	2960 Yorba Linda Bl.
Affiliation City:	FULLERTON
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92831
Affiliation Phone:	(714) 996-8002

Affiliation Type Desc:	Operator
Entity Name:	Tony Chen
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(714) 322-7603

Affiliation Type Desc:	UST Permit Applicant
Entity Name:	Hilda Chen
Entity Title:	Owner
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(714) 996-8002

Affiliation Type Desc:	UST Property Owner Name
Entity Name:	Tony and Hilda Chen
Entity Title:	Not reported
Affiliation Address:	2960 Yorba Linda Bl.
Affiliation City:	Fullerton
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92831
Affiliation Phone:	(714) 996-8002

SWEEPS UST:

Status:	Active
Comp Number:	4686
Number:	2
Board Of Equalization:	44-000074
Referral Date:	07-07-92

UNIVERSITY SHELL (Continued) **S101589254**

Action Date:	07-07-92
Created Date:	12-31-88
Owner Tank Id:	UNKNON
SWRCB Tank Id:	30-013-004686-000004
Tank Status:	A
Capacity:	10000
Active Date:	07-07-92
Tank Use:	M.V. FUEL
STG:	P
Content:	REG UNLEADED
Number Of Tanks:	3

Status:	Active
Comp Number:	4686
Number:	2
Board Of Equalization:	44-000074
Referral Date:	07-07-92
Action Date:	07-07-92
Created Date:	12-31-88
Owner Tank Id:	UNKNON
SWRCB Tank Id:	30-013-004686-000005
Tank Status:	A
Capacity:	10000
Active Date:	07-07-92
Tank Use:	M.V. FUEL
STG:	P
Content:	REG UNLEADED
Number Of Tanks:	Not reported

Status:	Active
Comp Number:	4686
Number:	2
Board Of Equalization:	44-000074
Referral Date:	07-07-92
Action Date:	07-07-92
Created Date:	12-31-88
Owner Tank Id:	UNKNON
SWRCB Tank Id:	30-013-004686-000006
Tank Status:	A
Capacity:	10000
Active Date:	07-07-92
Tank Use:	M.V. FUEL
STG:	P
Content:	PRM UNLEADED
Number Of Tanks:	Not reported

Status:	Not reported
Comp Number:	4686
Number:	Not reported
Board Of Equalization:	44-000074
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	30-013-004686-000001
Tank Status:	Not reported
Capacity:	10000

UNIVERSITY SHELL (Continued) **S101589254**

Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	WASTE
Content:	REG UNLEADED
Number Of Tanks:	3

Status:	Not reported
Comp Number:	4686
Number:	Not reported
Board Of Equalization:	44-000074
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	30-013-004686-000002
Tank Status:	Not reported
Capacity:	10000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	WASTE
Content:	LEADED
Number Of Tanks:	Not reported

Status:	Not reported
Comp Number:	4686
Number:	Not reported
Board Of Equalization:	44-000074
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	30-013-004686-000003
Tank Status:	Not reported
Capacity:	10000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	WASTE
Content:	REG UNLEADED
Number Of Tanks:	Not reported

CA FID UST:

Facility ID:	30004524
Regulated By:	UTNKA
Regulated ID:	Not reported
Cortese Code:	Not reported
SIC Code:	Not reported
Facility Phone:	7149968002
Mail To:	Not reported
Mailing Address:	2960 YORBA LINDA BLVD
Mailing Address 2:	Not reported
Mailing City,St,Zip:	FULLERTON 92631
Contact:	Not reported
Contact Phone:	Not reported
DUNs Number:	Not reported
NPDES Number:	Not reported
EPA ID:	Not reported
Comments:	Not reported

UNIVERSITY SHELL (Continued) **S101589254**

Status: Active

CERS TANKS:

Facility Name:	UNIVERSITY SHELL
Site ID:	417108
CERS ID:	10563184
CERS Description:	Underground Storage Tank

Violations:

Site ID:	417108
Site Name:	UNIVERSITY SHELL
Violation Date:	11-19-2018
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes:	Returned to compliance on 11/19/2018. Federal hazard categories were obsolete.
Violation Division:	Fullerton City Fire Department
Violation Program:	HMRRP
Violation Source:	CERS

Site ID:	417108
Site Name:	UNIVERSITY SHELL
Violation Date:	07-01-2013
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes:	Not reported
Violation Division:	Orange County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS

Site ID:	417108
Site Name:	UNIVERSITY SHELL
Violation Date:	07-07-2015
Citation:	23 CCR 16 2715(c)(2) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(c)(2)
Violation Description:	Failure to comply with one or more of the following: maintain the spill bucket in good condition, containment free of debris/liquid, and/or to remove the contents of the spill bucket when a release/leak/spill was observed.
Violation Notes:	Returned to compliance on 07/07/2015. 91 fill bucket failed testing. Repaired and retested at time of inspection.
Violation Division:	Fullerton City Fire Department
Violation Program:	UST
Violation Source:	CERS

Site ID:	417108
Site Name:	UNIVERSITY SHELL
Violation Date:	11-22-2016
Citation:	HSC 6.95 25508.2 - California Health and Safety Code, Chapter 6.95, Section(s) 25508.2
Violation Description:	Failure to annually review and electronically certify that the

UNIVERSITY SHELL (Continued) **S101589254**

business plan is complete and accurate on or before the annual due date.
Violation Notes: Returned to compliance on 02/13/2017. Due to transfer of facility files from esubmit, facility was unable to certify its BEP. In order to ensure the transfer was completed facility was given to 3/1/17 to certify.
Violation Division: Fullerton City Fire Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 417108
Site Name: UNIVERSITY SHELL
Violation Date: 11-22-2016
Citation: 23 CCR 16 2641(j) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2641(j)
Violation Description: Failure of the leak detection equipment to be installed, calibrated, operated, and/or maintained properly.
Violation Notes: Returned to compliance on 11/22/2016. 91 fill sump sensor failed testing. Replaced and retested at time of inspection.
Violation Division: Fullerton City Fire Department
Violation Program: UST
Violation Source: CERS

Site ID: 417108
Site Name: UNIVERSITY SHELL
Violation Date: 07-06-2016
Citation: 23 CCR 16 2715(f) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(f)
Violation Description: Failure to have at least one employee present during operating hours that has been trained in the proper operation and maintenance of the UST system by a designated operator (DO).
Violation Notes: Returned to compliance on 07/28/2016. Two employees were past due for training.
Violation Division: Fullerton City Fire Department
Violation Program: UST
Violation Source: CERS

Site ID: 417108
Site Name: UNIVERSITY SHELL
Violation Date: 11-19-2018
Citation: HSC 6.75 25299.30-25299.34 - California Health and Safety Code, Chapter 6.75, Section(s) 25299.30-25299.34
Violation Description: Failure to submit and maintain complete and current Certification of Financial Responsibility or other mechanism of financial assurance.
Violation Notes: Returned to compliance on 01/10/2019. CFO letter expired
Violation Division: Fullerton City Fire Department
Violation Program: UST
Violation Source: CERS

Site ID: 417108
Site Name: UNIVERSITY SHELL
Violation Date: 07-07-2015
Citation: HSC 6.75 25299.30-25299.34 - California Health and Safety Code, Chapter 6.75, Section(s) 25299.30-25299.34
Violation Description: Failure to submit and maintain complete and current Certification of Financial Responsibility or other mechanism of financial assurance.
Violation Notes: Returned to compliance on 08/17/2015. CFO letter out of date.

UNIVERSITY SHELL (Continued) **S101589254**

	Submitted via esubmit.
Violation Division:	Fullerton City Fire Department
Violation Program:	UST
Violation Source:	CERS

Site ID:	417108
Site Name:	UNIVERSITY SHELL
Violation Date:	11-22-2016
Citation:	HSC 6.75 25299.30-25299.34 - California Health and Safety Code, Chapter 6.75, Section(s) 25299.30-25299.34
Violation Description:	Failure to submit and maintain complete and current Certification of Financial Responsibility or other mechanism of financial assurance.
Violation Notes:	Returned to compliance on 08/10/2017. Failure to submit current CFO letter. Due to transfer of facility files from esubmit to CERS. Facility was given an extended deadline to comply.
Violation Division:	Fullerton City Fire Department
Violation Program:	UST
Violation Source:	CERS

Site ID:	417108
Site Name:	UNIVERSITY SHELL
Violation Date:	07-06-2016
Citation:	23 CCR 16 2712(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(i)
Violation Description:	Failure to have a UST Monitoring Plan available on site.
Violation Notes:	Returned to compliance on 07/08/2016.
Violation Division:	Fullerton City Fire Department
Violation Program:	UST
Violation Source:	CERS

Site ID:	417108
Site Name:	UNIVERSITY SHELL
Violation Date:	07-01-2013
Citation:	23 CCR 16 2665 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2665
Violation Description:	Failure of the overfill prevention system to meet one of the following requirements: 1. Alert the transfer operator when the tank is 90 percent full by restricting the flow into the tank or triggering an audible and visual alarm; or 2. Restrict delivery of flow to the tank at least 30 minutes before the tank overfills, provided the restriction occurs when the tank is filled to no more than 95 percent of capacity; and activate an audible alarm at least five minutes before the tank overfills; or 3. Provide positive shut-off of flow to the tank when the tank is filled to no more than 95 percent of capacity; or 4. Provide positive shut-off of flow to the tank so that none of the fittings located on the top of the tank are exposed to product due to overfilling.
Violation Notes:	Not reported
Violation Division:	Orange County Environmental Health
Violation Program:	UST
Violation Source:	CERS

Site ID:	417108
Site Name:	UNIVERSITY SHELL
Violation Date:	11-16-2017
Citation:	23 CCR 16 2665 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2665

UNIVERSITY SHELL (Continued) **S101589254**

Violation Description:	Failure of the overfill prevention system to meet one of the following requirements: Alert the transfer operator when the tank is 90 percent full by restricting the flow into the tank or triggering an audible and visual alarm; or Restrict delivery of flow to the tank at least 30 minutes before the tank overfills, provided the restriction occurs when the tank is filled to no more than 95 percent of capacity; and activate an audible alarm at least five minutes before the tank overfills; or Provide positive shut-off of flow to the tank when the tank is filled to no more than 95 percent of capacity; or Provide positive shut-off of flow to the tank so that none of the fittings located on the top of the tank are exposed to product due to overfilling.
Violation Notes:	Returned to compliance on 11/16/2017. Overfill alarm audio annunciator failed to function. Passed retest.
Violation Division:	Fullerton City Fire Department
Violation Program:	UST
Violation Source:	CERS
Site ID:	417108
Site Name:	UNIVERSITY SHELL
Violation Date:	07-07-2015
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit a site map with all required content.
Violation Notes:	Returned to compliance on 08/19/2015. Site map was outdated. Updated via CERS.
Violation Division:	Fullerton City Fire Department
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	417108
Site Name:	UNIVERSITY SHELL
Violation Date:	07-07-2015
Citation:	23 CCR 16 2636(f)(2) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2636(f)(2)
Violation Description:	Failure of the pressurized piping to meet one or more of the following requirements: monitored at least hourly with the capability of detecting a release of 3.0 gallons per hour, and will restrict the flow of product through the piping or trigger an alarm when a release occurs.
Violation Notes:	Returned to compliance on 07/07/2015. 87 PLLD failed testing due to a faulty siphon jet valve, Retested during inspection.
Violation Division:	Fullerton City Fire Department
Violation Program:	UST
Violation Source:	CERS
Site ID:	417108
Site Name:	UNIVERSITY SHELL
Violation Date:	11-19-2018
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit a site map with all required content.
Violation Notes:	Returned to compliance on 11/19/2018. Site map failed to transfer from esubmit.
Violation Division:	Fullerton City Fire Department

UNIVERSITY SHELL (Continued) **S101589254**

Violation Program: HMRRP
Violation Source: CERS

Site ID: 417108
Site Name: UNIVERSITY SHELL
Violation Date: 07-07-2015
Citation: HSC 6.11 25404(e)(4) - California Health and Safety Code, Chapter 6.11, Section(s) 25404(e)(4)
Violation Description: Failure to report program data electronically.
Violation Notes: Returned to compliance on 08/17/2015. forms submitted via esubmit
Violation Division: Fullerton City Fire Department
Violation Program: UST
Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-07-2015
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Fullerton City Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-16-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Monitor certification performed this date.
Eval Division: Fullerton City Fire Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-19-2018
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Monitor certification performed this date.
Eval Division: Fullerton City Fire Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-07-2015
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Monitor certification performed at time of inspection.
Eval Division: Fullerton City Fire Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-18-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: On site for the triennial Hazardous Waste (HW) inspection. Permission to inspect granted by University Shell/Chen. EPA ID # OK. Facility is

UNIVERSITY SHELL (Continued) **S101589254**

a Conditionally Exempt Small Quantity Generator (CESQG) and must have the HW hauled away within 90 days after 27 gallons have been accumulated. Last manifest (UST related testing waste) was 11-2012. No HW was being stored on site at this time. FFD HMBEP on file. **NOTE** the waste soil generated as part of the car wash construction may need to be managed as HW. Please make sure the consultant tests the waste before disposal. Perimeter and trash had no HW. ER card on site and posted.

Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-06-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Monitor certification performed this date.
Eval Division: Fullerton City Fire Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 07-08-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Reinspection to confirm presence of monitoring plan onsite.
Eval Division: Fullerton City Fire Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 07-15-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-16-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: No violations observed.
Eval Division: Fullerton City Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-19-2018
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Fullerton City Fire Department
Eval Program: HMRRP
Eval Source: CERS

UNIVERSITY SHELL (Continued) **S101589254**

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	02-21-2019
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	On site to conduct a routine hazardous waste inspection. This facility is verified to be owned by H C INTERNATIONAL CORP and currently has 8 employees. Walked throughout the facility and observed the outdoor trash/dumpster enclosure area. Observed two stacked and closed 55-gallon metal drums. Mr. Lau stated that he is unaware of the contents in the drums or if the facility generates hazardous waste. A follow-up will be conducted by this agency. The facility owner/contact on file will be contacted by this agency to verify the contents of the metal drums and status of the facility.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-01-2013
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	chemical inventory needs to be updated
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-01-2013
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	FAILURE TO MAINTAIN OVERFILL AND OVERSPILL DEVICES
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-06-2016
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	No violations observed.
Eval Division:	Fullerton City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	11-22-2016
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Fullerton City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	11-22-2016
Violations Found:	Yes
Eval Type:	Routine done by local agency

UNIVERSITY SHELL (Continued) **S101589254**

Eval Notes: Monitor certification witnessed due to cold start. Anniversary date changed to this date, so a full inspection was conducted.
Eval Division: Fullerton City Fire Department
Eval Program: UST
Eval Source: CERS

Enforcement Action:
Site ID: 417108
Site Name: UNIVERSITY SHELL
Site Address: 2960 YORBA LINDA BLVD
Site City: FULLERTON
Site Zip: 92831
Enf Action Date: 07-01-2013
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Orange County Environmental Health
Enf Action Program: HMRRP
Enf Action Source: CERS

Site ID: 417108
Site Name: UNIVERSITY SHELL
Site Address: 2960 YORBA LINDA BLVD
Site City: FULLERTON
Site Zip: 92831
Enf Action Date: 07-01-2013
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Orange County Environmental Health
Enf Action Program: UST
Enf Action Source: CERS

Coordinates:
Site ID: 417108
Facility Name: UNIVERSITY SHELL
Env Int Type Code: HMBP
Program ID: 10563184
Coord Name: Not reported
Ref Point Type Desc: Center of a facility or station.
Latitude: 33.888800
Longitude: -117.875050

Affiliation:
Affiliation Type Desc: CUPA District
Entity Name: Orange County Env Health
Entity Title: Not reported
Affiliation Address: 1241 East Dyer RoadSuite 120
Affiliation City: Santa Ana
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92705-5611
Affiliation Phone: (714) 433-6000

Affiliation Type Desc: Environmental Contact
Entity Name: Tony Chen

UNIVERSITY SHELL (Continued) **S101589254**

Entity Title:	Not reported
Affiliation Address:	2960 Yorba Linda Blvd
Affiliation City:	Fullerton
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92831
Affiliation Phone:	Not reported

Affiliation Type Desc:	Document Preparer
Entity Name:	Olivia Chen
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	2960 YORBA LINDA BLVD
Affiliation City:	FULLERTON
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92831
Affiliation Phone:	Not reported

Affiliation Type Desc:	Parent Corporation
Entity Name:	UNIVERSITY SHELL
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	UST Tank Operator
Entity Name:	Tony and Hilda Chen
Entity Title:	Not reported
Affiliation Address:	2960 Yorba Linda Bl.
Affiliation City:	Fullerton
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92831
Affiliation Phone:	(714) 996-8002

Affiliation Type Desc:	UST Tank Owner
Entity Name:	Tony and Hilda Chen
Entity Title:	Not reported
Affiliation Address:	2960 Yorba Linda Bl.
Affiliation City:	Fullerton
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92831
Affiliation Phone:	(714) 996-8002

UNIVERSITY SHELL (Continued) **S101589254**

Affiliation Type Desc:	Identification Signer
Entity Name:	Hilda Chen
Entity Title:	Co-Owner
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Legal Owner
Entity Name:	H C INTERNATIONAL CORP
Entity Title:	Not reported
Affiliation Address:	2960 Yorba Linda Bl.
Affiliation City:	FULLERTON
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92831
Affiliation Phone:	(714) 996-8002

Affiliation Type Desc:	Operator
Entity Name:	Tony Chen
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(714) 322-7603

Affiliation Type Desc:	UST Permit Applicant
Entity Name:	Hilda Chen
Entity Title:	Owner
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(714) 996-8002

Affiliation Type Desc:	UST Property Owner Name
Entity Name:	Tony and Hilda Chen
Entity Title:	Not reported
Affiliation Address:	2960 Yorba Linda Bl.
Affiliation City:	Fullerton
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92831
Affiliation Phone:	(714) 996-8002

HIST CORTESE:

Region:	CORTESE
Facility County Code:	30
Reg By:	LTNKA
Reg Id:	083002808T

UNIVERSITY SHELL (Continued) **S101589254**

CERS TANKS:

Site ID:	417108
CERS ID:	10563184
Site Name:	UNIVERSITY SHELL
CERS Description:	Chemical Storage Facilities

Violations:

Site ID:	417108
Site Name:	UNIVERSITY SHELL
Violation Date:	11-19-2018
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes:	Returned to compliance on 11/19/2018. Federal hazard categories were obsolete.
Violation Division:	Fullerton City Fire Department
Violation Program:	HMRRP
Violation Source:	CERS

Site ID:	417108
Site Name:	UNIVERSITY SHELL
Violation Date:	07-01-2013
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes:	Not reported
Violation Division:	Orange County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS

Site ID:	417108
Site Name:	UNIVERSITY SHELL
Violation Date:	07-07-2015
Citation:	23 CCR 16 2715(c)(2) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(c)(2)
Violation Description:	Failure to comply with one or more of the following: maintain the spill bucket in good condition, containment free of debris/liquid, and/or to remove the contents of the spill bucket when a release/leak/spill was observed.
Violation Notes:	Returned to compliance on 07/07/2015. 91 fill bucket failed testing. Repaired and retested at time of inspection.
Violation Division:	Fullerton City Fire Department
Violation Program:	UST
Violation Source:	CERS

Site ID:	417108
Site Name:	UNIVERSITY SHELL
Violation Date:	11-22-2016
Citation:	HSC 6.95 25508.2 - California Health and Safety Code, Chapter 6.95, Section(s) 25508.2
Violation Description:	Failure to annually review and electronically certify that the business plan is complete and accurate on or before the annual due date.

UNIVERSITY SHELL (Continued) **S101589254**

Violation Notes:	Returned to compliance on 02/13/2017. Due to transfer of facility files from esubmit, facility was unable to certify its BEP. In order to ensure the transfer was completed facility was given to 3/1/17 to certify.
Violation Division:	Fullerton City Fire Department
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	417108
Site Name:	UNIVERSITY SHELL
Violation Date:	11-22-2016
Citation:	23 CCR 16 2641(j) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2641(j)
Violation Description:	Failure of the leak detection equipment to be installed, calibrated, operated, and/or maintained properly.
Violation Notes:	Returned to compliance on 11/22/2016. 91 fill sump sensor failed testing. Replaced and retested at time of inspection.
Violation Division:	Fullerton City Fire Department
Violation Program:	UST
Violation Source:	CERS
Site ID:	417108
Site Name:	UNIVERSITY SHELL
Violation Date:	07-06-2016
Citation:	23 CCR 16 2715(f) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(f)
Violation Description:	Failure to have at least one employee present during operating hours that has been trained in the proper operation and maintenance of the UST system by a designated operator (DO).
Violation Notes:	Returned to compliance on 07/28/2016. Two employees were past due for training.
Violation Division:	Fullerton City Fire Department
Violation Program:	UST
Violation Source:	CERS
Site ID:	417108
Site Name:	UNIVERSITY SHELL
Violation Date:	11-19-2018
Citation:	HSC 6.75 25299.30-25299.34 - California Health and Safety Code, Chapter 6.75, Section(s) 25299.30-25299.34
Violation Description:	Failure to submit and maintain complete and current Certification of Financial Responsibility or other mechanism of financial assurance.
Violation Notes:	Returned to compliance on 01/10/2019. CFO letter expired
Violation Division:	Fullerton City Fire Department
Violation Program:	UST
Violation Source:	CERS
Site ID:	417108
Site Name:	UNIVERSITY SHELL
Violation Date:	07-07-2015
Citation:	HSC 6.75 25299.30-25299.34 - California Health and Safety Code, Chapter 6.75, Section(s) 25299.30-25299.34
Violation Description:	Failure to submit and maintain complete and current Certification of Financial Responsibility or other mechanism of financial assurance.
Violation Notes:	Returned to compliance on 08/17/2015. CFO letter out of date. Submitted via esubmit.
Violation Division:	Fullerton City Fire Department

UNIVERSITY SHELL (Continued) **S101589254**

Violation Program: UST
Violation Source: CERS

Site ID: 417108
Site Name: UNIVERSITY SHELL
Violation Date: 11-22-2016
Citation: HSC 6.75 25299.30-25299.34 - California Health and Safety Code, Chapter 6.75, Section(s) 25299.30-25299.34
Violation Description: Failure to submit and maintain complete and current Certification of Financial Responsibility or other mechanism of financial assurance.
Violation Notes: Returned to compliance on 08/10/2017. Failure to submit current CFO letter. Due to transfer of facility files from esubmit to CERS. Facility was given an extended deadline to comply.
Violation Division: Fullerton City Fire Department
Violation Program: UST
Violation Source: CERS

Site ID: 417108
Site Name: UNIVERSITY SHELL
Violation Date: 07-06-2016
Citation: 23 CCR 16 2712(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(i)
Violation Description: Failure to have a UST Monitoring Plan available on site.
Violation Notes: Returned to compliance on 07/08/2016.
Violation Division: Fullerton City Fire Department
Violation Program: UST
Violation Source: CERS

Site ID: 417108
Site Name: UNIVERSITY SHELL
Violation Date: 07-01-2013
Citation: 23 CCR 16 2665 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2665
Violation Description: Failure of the overfill prevention system to meet one of the following requirements: 1. Alert the transfer operator when the tank is 90 percent full by restricting the flow into the tank or triggering an audible and visual alarm; or 2. Restrict delivery of flow to the tank at least 30 minutes before the tank overfills, provided the restriction occurs when the tank is filled to no more than 95 percent of capacity; and activate an audible alarm at least five minutes before the tank overfills; or 3. Provide positive shut-off of flow to the tank when the tank is filled to no more than 95 percent of capacity; or 4. Provide positive shut-off of flow to the tank so that none of the fittings located on the top of the tank are exposed to product due to overfilling.
Violation Notes: Not reported
Violation Division: Orange County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 417108
Site Name: UNIVERSITY SHELL
Violation Date: 11-16-2017
Citation: 23 CCR 16 2665 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2665
Violation Description: Failure of the overfill prevention system to meet one of the following requirements: Alert the transfer operator when the tank is 90 percent

UNIVERSITY SHELL (Continued) **S101589254**

full by restricting the flow into the tank or triggering an audible and visual alarm; or Restrict delivery of flow to the tank at least 30 minutes before the tank overfills, provided the restriction occurs when the tank is filled to no more than 95 percent of capacity; and activate an audible alarm at least five minutes before the tank overfills; or Provide positive shut-off of flow to the tank when the tank is filled to no more than 95 percent of capacity; or Provide positive shut-off of flow to the tank so that none of the fittings located on the top of the tank are exposed to product due to overfilling.

Violation Notes: Returned to compliance on 11/16/2017. Overfill alarm audio annunciator failed to function. Passed retest.
Violation Division: Fullerton City Fire Department
Violation Program: UST
Violation Source: CERS

Site ID: 417108
Site Name: UNIVERSITY SHELL
Violation Date: 07-07-2015
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit a site map with all required content.
Violation Notes: Returned to compliance on 08/19/2015. Site map was outdated. Updated via CERS.
Violation Division: Fullerton City Fire Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 417108
Site Name: UNIVERSITY SHELL
Violation Date: 07-07-2015
Citation: 23 CCR 16 2636(f)(2) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2636(f)(2)
Violation Description: Failure of the pressurized piping to meet one or more of the following requirements: monitored at least hourly with the capability of detecting a release of 3.0 gallons per hour, and will restrict the flow of product through the piping or trigger an alarm when a release occurs.
Violation Notes: Returned to compliance on 07/07/2015. 87 PLLD failed testing due to a faulty siphon jet valve, Retested during inspection.
Violation Division: Fullerton City Fire Department
Violation Program: UST
Violation Source: CERS

Site ID: 417108
Site Name: UNIVERSITY SHELL
Violation Date: 11-19-2018
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit a site map with all required content.
Violation Notes: Returned to compliance on 11/19/2018. Site map failed to transfer from esubmit.
Violation Division: Fullerton City Fire Department
Violation Program: HMRRP
Violation Source: CERS

UNIVERSITY SHELL (Continued) **S101589254**

Site ID: 417108
Site Name: UNIVERSITY SHELL
Violation Date: 07-07-2015
Citation: HSC 6.11 25404(e)(4) - California Health and Safety Code, Chapter 6.11, Section(s) 25404(e)(4)
Violation Description: Failure to report program data electronically.
Violation Notes: Returned to compliance on 08/17/2015. forms submitted via esubmit
Violation Division: Fullerton City Fire Department
Violation Program: UST
Violation Source: CERS

Evaluation:

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-07-2015
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Fullerton City Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-16-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Monitor certification performed this date.
Eval Division: Fullerton City Fire Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-19-2018
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Monitor certification performed this date.
Eval Division: Fullerton City Fire Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-07-2015
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Monitor certification performed at time of inspection.
Eval Division: Fullerton City Fire Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-18-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: On site for the triennial Hazardous Waste (HW) inspection. Permission to inspect granted by University Shell/Chen. EPA ID # OK. Facility is a Conditionally Exempt Small Quantity Generator (CESQG) and must have the HW hauled away within 90 days after 27 gallons have been accumulated. Last manifest (UST related testing waste) was 11-2012. No

UNIVERSITY SHELL (Continued) **S101589254**

HW was being stored on site at this time. FFD HMBEP on file. **NOTE** the waste soil generated as part of the car wash construction may need to be managed as HW. Please make sure the consultant tests the waste before disposal. Perimeter and trash had no HW. ER card on site and posted.

Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-06-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Monitor certification performed this date.
Eval Division: Fullerton City Fire Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 07-08-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Reinspection to confirm presence of monitoring plan onsite.
Eval Division: Fullerton City Fire Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 07-15-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-16-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: No violations observed.
Eval Division: Fullerton City Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-19-2018
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Fullerton City Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-21-2019
Violations Found: No

UNIVERSITY SHELL (Continued) **S101589254**

Eval Type:	Routine done by local agency
Eval Notes:	On site to conduct a routine hazardous waste inspection. This facility is verified to be owned by H C INTERNATIONAL CORP and currently has 8 employees. Walked throughout the facility and observed the outdoor trash/dumpster enclosure area. Observed two stacked and closed 55-gallon metal drums. Mr. Lau stated that he is unaware of the contents in the drums or if the facility generates hazardous waste. A follow-up will be conducted by this agency. The facility owner/contact on file will be contacted by this agency to verify the contents of the metal drums and status of the facility.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-01-2013
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	chemical inventory needs to be updated
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-01-2013
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	FAILURE TO MAINTAIN OVERFILL AND OVERSPILL DEVICES
Eval Division:	Orange County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-06-2016
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	No violations observed.
Eval Division:	Fullerton City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	11-22-2016
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Fullerton City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	11-22-2016
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Monitor certification witnessed due to cold start. Anniversary date changed to this date, so a full inspection was conducted.
Eval Division:	Fullerton City Fire Department

UNIVERSITY SHELL (Continued) **S101589254**

Eval Program: UST
Eval Source: CERS

Enforcement Action:
Site ID: 417108
Site Name: UNIVERSITY SHELL
Site Address: 2960 YORBA LINDA BLVD
Site City: FULLERTON
Site Zip: 92831
Enf Action Date: 07-01-2013
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Orange County Environmental Health
Enf Action Program: HMRRP
Enf Action Source: CERS

Site ID: 417108
Site Name: UNIVERSITY SHELL
Site Address: 2960 YORBA LINDA BLVD
Site City: FULLERTON
Site Zip: 92831
Enf Action Date: 07-01-2013
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Orange County Environmental Health
Enf Action Program: UST
Enf Action Source: CERS

Coordinates:
Site ID: 417108
Facility Name: UNIVERSITY SHELL
Env Int Type Code: HMBP
Program ID: 10563184
Coord Name: Not reported
Ref Point Type Desc: Center of a facility or station.
Latitude: 33.888800
Longitude: -117.875050

Affiliation:
Affiliation Type Desc: CUPA District
Entity Name: Orange County Env Health
Entity Title: Not reported
Affiliation Address: 1241 East Dyer RoadSuite 120
Affiliation City: Santa Ana
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92705-5611
Affiliation Phone: (714) 433-6000

Affiliation Type Desc: Environmental Contact
Entity Name: Tony Chen
Entity Title: Not reported
Affiliation Address: 2960 Yorba Linda Blvd
Affiliation City: Fullerton

UNIVERSITY SHELL (Continued) **S101589254**

Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92831
Affiliation Phone:	Not reported
Affiliation Type Desc:	Document Preparer
Entity Name:	Olivia Chen
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	2960 YORBA LINDA BLVD
Affiliation City:	FULLERTON
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92831
Affiliation Phone:	Not reported
Affiliation Type Desc:	Parent Corporation
Entity Name:	UNIVERSITY SHELL
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	UST Tank Operator
Entity Name:	Tony and Hilda Chen
Entity Title:	Not reported
Affiliation Address:	2960 Yorba Linda Bl.
Affiliation City:	Fullerton
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92831
Affiliation Phone:	(714) 996-8002
Affiliation Type Desc:	UST Tank Owner
Entity Name:	Tony and Hilda Chen
Entity Title:	Not reported
Affiliation Address:	2960 Yorba Linda Bl.
Affiliation City:	Fullerton
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92831
Affiliation Phone:	(714) 996-8002
Affiliation Type Desc:	Identification Signer
Entity Name:	Hilda Chen

UNIVERSITY SHELL (Continued) **S101589254**

Entity Title:	Co-Owner
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Legal Owner
Entity Name:	H C INTERNATIONAL CORP
Entity Title:	Not reported
Affiliation Address:	2960 Yorba Linda Bl.
Affiliation City:	FULLERTON
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92831
Affiliation Phone:	(714) 996-8002

Affiliation Type Desc:	Operator
Entity Name:	Tony Chen
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(714) 322-7603

Affiliation Type Desc:	UST Permit Applicant
Entity Name:	Hilda Chen
Entity Title:	Owner
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(714) 996-8002

Affiliation Type Desc:	UST Property Owner Name
Entity Name:	Tony and Hilda Chen
Entity Title:	Not reported
Affiliation Address:	2960 Yorba Linda Bl.
Affiliation City:	Fullerton
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92831
Affiliation Phone:	(714) 996-8002

W146 ENE 1/4-1/2 0.357 mi. 1883 ft. | **SHELL #2960**
2960 E YORBA LINDA BLVD
FULLERTON, CA 92631

CA LUST **S109284773**
CA Cortese **N/A**
CA CERS

Site 2 of 9 in cluster W

Relative: Higher

Actual: 277 ft.

LUST:

Lead Agency:	SANTA ANA RWQCB (REGION 8)
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0605901932
Global Id:	T0605901932
Latitude:	33.888952374
Longitude:	-117.8747469
Status:	Open - Site Assessment
Status Date:	06/15/2003
Case Worker:	CAB
RB Case Number:	083002808T
Local Agency:	FULLERTON, CITY OF
File Location:	Not reported
Local Case Number:	Not reported
Potential Media Affect:	Aquifer used for drinking water supply
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

LUST:

Global Id:	T0605901932
Contact Type:	Regional Board Caseworker
Contact Name:	CARL BERNHARDT
Organization Name:	SANTA ANA RWQCB (REGION 8)
Address:	3737 MAIN STREET, SUITE 500
City:	RIVERSIDE
Email:	carl.bernhardt@waterboards.ca.gov
Phone Number:	9517824495

Global Id:	T0605901932
Contact Type:	Local Agency Caseworker
Contact Name:	STEPHEN LONG
Organization Name:	FULLERTON, CITY OF
Address:	312 E. COMMONWEALTH AVE.
City:	FULLERTON
Email:	stevel@fullertonfire.org
Phone Number:	7147383160

LUST:

Global Id:	T0605901932
Action Type:	RESPONSE
Date:	07/30/2005
Action:	Monitoring Report - Quarterly

Global Id:	T0605901932
Action Type:	RESPONSE
Date:	10/30/2005
Action:	Monitoring Report - Quarterly

Global Id:	T0605901932
Action Type:	RESPONSE
Date:	01/30/2006
Action:	Monitoring Report - Quarterly

SHELL #2960 (Continued) **S109284773**

Global Id: T0605901932
Action Type: RESPONSE
Date: 05/30/2013
Action: Well Installation Workplan - Regulator Responded

Global Id: T0605901932
Action Type: ENFORCEMENT
Date: 07/03/2003
Action: Staff Letter

Global Id: T0605901932
Action Type: Other
Date: 02/20/1996
Action: Leak Reported

Global Id: T0605901932
Action Type: RESPONSE
Date: 04/30/2006
Action: Monitoring Report - Quarterly

Global Id: T0605901932
Action Type: RESPONSE
Date: 07/30/2006
Action: Monitoring Report - Quarterly

Global Id: T0605901932
Action Type: RESPONSE
Date: 05/18/2006
Action: Interim Remedial Action Plan

Global Id: T0605901932
Action Type: RESPONSE
Date: 10/30/2006
Action: Monitoring Report - Quarterly

Global Id: T0605901932
Action Type: RESPONSE
Date: 10/16/2006
Action: Other Workplan

Global Id: T0605901932
Action Type: RESPONSE
Date: 10/30/2012
Action: Monitoring Report - Semi-Annually

Global Id: T0605901932
Action Type: RESPONSE
Date: 04/30/2012
Action: Monitoring Report - Semi-Annually

Global Id: T0605901932
Action Type: RESPONSE
Date: 10/30/2011
Action: Monitoring Report - Semi-Annually

Global Id: T0605901932
Action Type: RESPONSE

SHELL #2960 (Continued) **S109284773**

Date: 10/10/2017
Action: Monitoring Report - Semi-Annually

Global Id: T0605901932
Action Type: RESPONSE
Date: 04/28/2017
Action: Monitoring Report - Semi-Annually

Global Id: T0605901932
Action Type: RESPONSE
Date: 04/29/2016
Action: Monitoring Report - Semi-Annually

Global Id: T0605901932
Action Type: RESPONSE
Date: 12/01/2014
Action: Well Installation Workplan - Regulator Responded

Global Id: T0605901932
Action Type: ENFORCEMENT
Date: 04/24/2009
Action: Staff Letter

Global Id: T0605901932
Action Type: ENFORCEMENT
Date: 12/16/2008
Action: Staff Letter

Global Id: T0605901932
Action Type: RESPONSE
Date: 05/21/2013
Action: Site Assessment Report

Global Id: T0605901932
Action Type: RESPONSE
Date: 04/30/2018
Action: Interim Remedial Action Plan - Regulator Responded

Global Id: T0605901932
Action Type: ENFORCEMENT
Date: 07/29/2009
Action: Staff Letter

Global Id: T0605901932
Action Type: ENFORCEMENT
Date: 08/21/2018
Action: Staff Letter

Global Id: T0605901932
Action Type: RESPONSE
Date: 09/30/2008
Action: Interim Remedial Action Plan

Global Id: T0605901932
Action Type: RESPONSE
Date: 01/30/2007
Action: Monitoring Report - Quarterly

SHELL #2960 (Continued) **S109284773**

Global Id: T0605901932
Action Type: RESPONSE
Date: 04/30/2007
Action: Monitoring Report - Quarterly

Global Id: T0605901932
Action Type: RESPONSE
Date: 07/30/2007
Action: Monitoring Report - Quarterly

Global Id: T0605901932
Action Type: RESPONSE
Date: 10/30/2007
Action: Monitoring Report - Quarterly

Global Id: T0605901932
Action Type: RESPONSE
Date: 01/30/2008
Action: Monitoring Report - Quarterly

Global Id: T0605901932
Action Type: RESPONSE
Date: 04/30/2008
Action: Monitoring Report - Quarterly

Global Id: T0605901932
Action Type: RESPONSE
Date: 02/28/2003
Action: Monitoring Report - Quarterly

Global Id: T0605901932
Action Type: RESPONSE
Date: 11/27/2013
Action: Verbal Communication

Global Id: T0605901932
Action Type: ENFORCEMENT
Date: 09/07/2011
Action: Staff Letter

Global Id: T0605901932
Action Type: RESPONSE
Date: 04/30/2009
Action: Monitoring Report - Quarterly

Global Id: T0605901932
Action Type: RESPONSE
Date: 01/30/2010
Action: Monitoring Report - Semi-Annually

Global Id: T0605901932
Action Type: RESPONSE
Date: 01/30/2009
Action: Monitoring Report - Quarterly

Global Id: T0605901932
Action Type: RESPONSE

SHELL #2960 (Continued) **S109284773**

Date: 07/30/2009
Action: Monitoring Report - Quarterly

Global Id: T0605901932
Action Type: RESPONSE
Date: 10/30/2008
Action: Monitoring Report - Quarterly

Global Id: T0605901932
Action Type: RESPONSE
Date: 07/30/2008
Action: Monitoring Report - Quarterly

Global Id: T0605901932
Action Type: RESPONSE
Date: 01/03/2017
Action: Monitoring Report - Semi-Annually

Global Id: T0605901932
Action Type: ENFORCEMENT
Date: 01/28/2002
Action: Staff Letter

Global Id: T0605901932
Action Type: REMEDIATION
Date: 06/11/2008
Action: Soil Vapor Extraction (SVE)

Global Id: T0605901932
Action Type: REMEDIATION
Date: 02/20/1996
Action: Soil Vapor Extraction (SVE)

Global Id: T0605901932
Action Type: ENFORCEMENT
Date: 05/12/2015
Action: Meeting

Global Id: T0605901932
Action Type: ENFORCEMENT
Date: 06/16/2015
Action: Meeting

Global Id: T0605901932
Action Type: RESPONSE
Date: 01/20/2009
Action: Soil and Water Investigation Workplan

Global Id: T0605901932
Action Type: RESPONSE
Date: 04/30/2002
Action: Soil and Water Investigation Report

Global Id: T0605901932
Action Type: RESPONSE
Date: 07/30/2002
Action: Monitoring Report - Quarterly

SHELL #2960 (Continued) **S109284773**

Global Id: T0605901932
Action Type: RESPONSE
Date: 04/30/2010
Action: Monitoring Report - Quarterly

Global Id: T0605901932
Action Type: RESPONSE
Date: 05/30/2010
Action: Soil and Water Investigation Report

Global Id: T0605901932
Action Type: RESPONSE
Date: 10/31/2014
Action: Email Correspondence

Global Id: T0605901932
Action Type: REMEDIATION
Date: 05/01/2003
Action: Excavation

Global Id: T0605901932
Action Type: RESPONSE
Date: 12/30/2003
Action: Monitoring Report - Quarterly

Global Id: T0605901932
Action Type: RESPONSE
Date: 04/11/2003
Action: Soil and Water Investigation Workplan

Global Id: T0605901932
Action Type: RESPONSE
Date: 07/30/2003
Action: Monitoring Report - Quarterly

Global Id: T0605901932
Action Type: RESPONSE
Date: 11/01/2016
Action: Monitoring Report - Semi-Annually

Global Id: T0605901932
Action Type: ENFORCEMENT
Date: 08/22/2006
Action: Staff Letter

Global Id: T0605901932
Action Type: ENFORCEMENT
Date: 11/28/2006
Action: Staff Letter

Global Id: T0605901932
Action Type: RESPONSE
Date: 10/06/2003
Action: Soil and Water Investigation Report

Global Id: T0605901932
Action Type: RESPONSE

SHELL #2960 (Continued) **S109284773**

Date: 07/30/2003
Action: Tank Removal Report / UST Sampling Report

Global Id: T0605901932
Action Type: RESPONSE
Date: 05/30/2003
Action: Monitoring Report - Quarterly

Global Id: T0605901932
Action Type: RESPONSE
Date: 04/30/2004
Action: Monitoring Report - Quarterly

Global Id: T0605901932
Action Type: RESPONSE
Date: 07/30/2004
Action: Monitoring Report - Quarterly

Global Id: T0605901932
Action Type: RESPONSE
Date: 08/01/2018
Action: Clean Up Fund - 5-Year Review Summary

Global Id: T0605901932
Action Type: RESPONSE
Date: 07/30/2016
Action: Soil and Water Investigation Report

Global Id: T0605901932
Action Type: Other
Date: 02/17/1996
Action: Leak Discovery

Global Id: T0605901932
Action Type: RESPONSE
Date: 02/01/2004
Action: Soil and Water Investigation Report

Global Id: T0605901932
Action Type: RESPONSE
Date: 09/04/2003
Action: Other Report / Document

Global Id: T0605901932
Action Type: RESPONSE
Date: 08/08/2003
Action: Other Report / Document

Global Id: T0605901932
Action Type: RESPONSE
Date: 02/28/2007
Action: CAP/RAP - Feasibility Study Report

Global Id: T0605901932
Action Type: RESPONSE
Date: 10/30/2010
Action: Monitoring Report - Semi-Annually

SHELL #2960 (Continued) **S109284773**

Global Id: T0605901932
Action Type: RESPONSE
Date: 04/30/2011
Action: Monitoring Report - Semi-Annually

Global Id: T0605901932
Action Type: ENFORCEMENT
Date: 09/12/2003
Action: Staff Letter

Global Id: T0605901932
Action Type: Other
Date: 02/17/1996
Action: Leak Stopped

Global Id: T0605901932
Action Type: RESPONSE
Date: 10/30/2004
Action: Monitoring Report - Quarterly

Global Id: T0605901932
Action Type: RESPONSE
Date: 12/30/2004
Action: CAP/RAP - Feasibility Study Report

Global Id: T0605901932
Action Type: RESPONSE
Date: 01/30/2005
Action: Monitoring Report - Quarterly

Global Id: T0605901932
Action Type: RESPONSE
Date: 04/30/2005
Action: Monitoring Report - Quarterly

LUST:
Global Id: T0605901932
Status: Open - Case Begin Date
Status Date: 02/17/1996

Global Id: T0605901932
Status: Open - Remediation
Status Date: 02/20/1996

Global Id: T0605901932
Status: Open - Remediation
Status Date: 05/15/2003

Global Id: T0605901932
Status: Open - Site Assessment
Status Date: 02/17/1996

Global Id: T0605901932
Status: Open - Site Assessment
Status Date: 04/01/1999

Global Id: T0605901932

SHELL #2960 (Continued) **S109284773**

Status:	Open - Site Assessment
Status Date:	04/11/2003
Global Id:	T0605901932
Status:	Open - Site Assessment
Status Date:	06/15/2003
Global Id:	T0605901932
Status:	Open - Verification Monitoring
Status Date:	02/26/1999

CORTESE:

Region:	CORTESE
Envirostor Id:	Not reported
Global ID:	T0605901932
Site/Facility Type:	LUST CLEANUP SITE
Cleanup Status:	OPEN - SITE ASSESSMENT
Status Date:	Not reported
Site Code:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Owner:	Not reported
Enf Type:	Not reported
Swat R:	Not reported
Flag:	active
Order No:	Not reported
Waste Discharge System No:	Not reported
Effective Date:	Not reported
Region 2:	Not reported
WID Id:	Not reported
Solid Waste Id No:	Not reported
Waste Management Uit Name:	Not reported
File Name:	Active Open

CERS TANKS:

Site ID:	246400
CERS ID:	T0605901932
Site Name:	SHELL #2960
CERS Description:	Leaking Underground Storage Tank Cleanup Site

Affiliation:

Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	CARL BERNHARDT - SANTA ANA RWQCB (REGION 8)
Entity Title:	Not reported
Affiliation Address:	3737 MAIN STREET, SUITE 500
Affiliation City:	RIVERSIDE
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	9517824495
Affiliation Type Desc:	Local Agency Caseworker
Entity Name:	STEPHEN LONG - FULLERTON, CITY OF
Entity Title:	Not reported
Affiliation Address:	312 E. COMMONWEALTH AVE.
Affiliation City:	FULLERTON

SHELL #2960 (Continued) **S109284773**

Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	7147383160

W147 ENE 1/4-1/2 0.357 mi. 1883 ft. **SHELL #2960** **CA LUST** **S104791839**
2960 YORBA LINDA BLVD **N/A**
FULLERTON, CA 92631

Site 3 of 9 in cluster W

Relative: Higher

Actual: 277 ft.

LUST REG 8:

Region:	8
County:	Orange
Regional Board:	Santa Ana Region
Facility Status:	Pollution Characterization
Case Number:	083002808T
Local Case Num:	Not reported
Case Type:	Aquifer affected
Substance:	Gasoline
Qty Leaked:	Not reported
Abate Method:	Not reported
Cross Street:	PLACENTIA
Enf Type:	SEL
Funding:	Not reported
How Discovered:	OM
How Stopped:	Not reported
Leak Cause:	Not reported
Leak Source:	Piping
Global ID:	T0605901932
How Stopped Date:	2/17/1996
Enter Date:	3/19/1996
Date Confirmation of Leak Began:	Not reported
Date Preliminary Assessment Began:	Not reported
Discover Date:	2/17/1996
Enforcement Date:	Not reported
Close Date:	Not reported
Date Prelim Assessment Workplan Submitted:	2/17/1996
Date Pollution Characterization Began:	4/11/2003
Date Remediation Plan Submitted:	Not reported
Date Remedial Action Underway:	2/20/1996
Date Post Remedial Action Monitoring:	2/26/1999
Enter Date:	3/19/1996
GW Qualifies:	=
Soil Qualifies:	=
Operator:	Not reported
Facility Contact:	Not reported
Interim:	Not reported
Oversite Program:	LUST
Latitude:	33.88895237
Longitude:	-117.8747469
MTBE Date:	6/29/2004
Max MTBE GW:	12000
MTBE Concentration:	7
Max MTBE Soil:	7300
MTBE Fuel:	1
MTBE Tested:	MTBE Detected. Site tested for MTBE & MTBE detected

SHELL #2960 (Continued) **S104791839**

MTBE Class:	C
Staff:	CAB
Staff Initials:	SRL
Lead Agency:	Regional Board
Local Agency:	30013
Hydr Basin #:	COASTAL PLAIN OF ORA
Beneficial:	Not reported
Priority:	Not reported
Cleanup Fund Id:	Not reported
Work Suspended:	Not reported
Summary:	VES INSTALLED, OPERATED AND ABANDONED WITH LITTLE REG. OVERSITE. CONF. BORINGS DO NOT GO BEYOND THE VES DEPTHS. DEPTH OF CONTAM. NEVER DEFINED. FFD REQUIERED ADDITIONAL BORINGS MTBE DETECTED ALL THE WAY TO GW. CASE TRANSF. TO RB 7/29/99,

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W148 ENE 1/4-1/2 0.373 mi. 1971 ft. **TESORO /TARGET STORE T-293**
2978 E YORBA LINDA BLVD
FULLERTON, CA 92631
CA LUST **S109284482**
CA CERS **N/A**

Site 4 of 9 in cluster W

Relative: Higher
Actual: 279 ft.

LUST:

Lead Agency:	SANTA ANA RWQCB (REGION 8)
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0605901585
Global Id:	T0605901585
Latitude:	33.888882563
Longitude:	-117.8768014
Status:	Completed - Case Closed
Status Date:	12/30/2015
Case Worker:	MAO
RB Case Number:	083002146T
Local Agency:	FULLERTON, CITY OF
File Location:	Not reported
Local Case Number:	Not reported
Potential Media Affect:	Aquifer used for drinking water supply
Potential Contaminants of Concern:	Gasoline
Site History:	Site address also listed as 2920, which is the address for the Target shopping Center. The 2978 E. Yorba Linda address is the current address of the auto parts store building which is adjacent to the location of the former USTs.

LUST:

Global Id:	T0605901585
Contact Type:	Regional Board Caseworker
Contact Name:	MIGUEL OVIEDO
Organization Name:	SANTA ANA RWQCB (REGION 8)
Address:	3737 Main Street, Suite 500
City:	RIVERSIDE
Email:	miguel.oviedo@waterboards.ca.gov
Phone Number:	9517823238

Global Id:	T0605901585
Contact Type:	Local Agency Caseworker
Contact Name:	STEPHEN LONG
Organization Name:	FULLERTON, CITY OF
Address:	312 E. COMMONWEALTH AVE.
City:	FULLERTON
Email:	stevel@fullertonfire.org

TESORO /TARGET STORE T-293 (Continued) **S109284482**

Phone Number: 7147383160

LUST:

Global Id: T0605901585
Action Type: ENFORCEMENT
Date: 12/10/2015
Action: Technical Correspondence / Assistance / Other

Global Id: T0605901585
Action Type: ENFORCEMENT
Date: 12/10/2015
Action: File Review - Closure

Global Id: T0605901585
Action Type: ENFORCEMENT
Date: 10/05/2010
Action: Technical Correspondence / Assistance / Other

Global Id: T0605901585
Action Type: ENFORCEMENT
Date: 04/29/2004
Action: 13267 Monitoring Program

Global Id: T0605901585
Action Type: ENFORCEMENT
Date: 08/01/2008
Action: Technical Correspondence / Assistance / Other

Global Id: T0605901585
Action Type: ENFORCEMENT
Date: 08/28/2008
Action: Technical Correspondence / Assistance / Other

Global Id: T0605901585
Action Type: ENFORCEMENT
Date: 10/15/2008
Action: Technical Correspondence / Assistance / Other

Global Id: T0605901585
Action Type: Other
Date: 09/09/1992
Action: Leak Reported

Global Id: T0605901585
Action Type: ENFORCEMENT
Date: 04/21/2005
Action: 13267 Monitoring Program

Global Id: T0605901585
Action Type: RESPONSE
Date: 12/26/2006
Action: Soil and Water Investigation Workplan

Global Id: T0605901585
Action Type: ENFORCEMENT
Date: 04/20/2009
Action: Technical Correspondence / Assistance / Other

TESORO /TARGET STORE T-293 (Continued) **S109284482**

Global Id: T0605901585
Action Type: ENFORCEMENT
Date: 07/14/2009
Action: Technical Correspondence / Assistance / Other

Global Id: T0605901585
Action Type: RESPONSE
Date: 10/30/2008
Action: Corrective Action Plan / Remedial Action Plan

Global Id: T0605901585
Action Type: ENFORCEMENT
Date: 10/22/2003
Action: 13267 Monitoring Program

Global Id: T0605901585
Action Type: ENFORCEMENT
Date: 11/01/2004
Action: 13267 Monitoring Program

Global Id: T0605901585
Action Type: ENFORCEMENT
Date: 11/25/2009
Action: Technical Correspondence / Assistance / Other

Global Id: T0605901585
Action Type: ENFORCEMENT
Date: 10/15/2009
Action: Technical Correspondence / Assistance / Other

Global Id: T0605901585
Action Type: ENFORCEMENT
Date: 10/15/2009
Action: Technical Correspondence / Assistance / Other

Global Id: T0605901585
Action Type: ENFORCEMENT
Date: 04/12/2010
Action: Technical Correspondence / Assistance / Other

Global Id: T0605901585
Action Type: ENFORCEMENT
Date: 02/17/2011
Action: Technical Correspondence / Assistance / Other

Global Id: T0605901585
Action Type: ENFORCEMENT
Date: 10/15/2011
Action: Technical Correspondence / Assistance / Other

Global Id: T0605901585
Action Type: ENFORCEMENT
Date: 07/16/2010
Action: Technical Correspondence / Assistance / Other

Global Id: T0605901585
Action Type: ENFORCEMENT

TESORO /TARGET STORE T-293 (Continued) **S109284482**

Date: 01/21/2011
Action: Technical Correspondence / Assistance / Other

Global Id: T0605901585
Action Type: ENFORCEMENT
Date: 03/04/2011
Action: Technical Correspondence / Assistance / Other

Global Id: T0605901585
Action Type: ENFORCEMENT
Date: 11/12/2010
Action: Technical Correspondence / Assistance / Other

Global Id: T0605901585
Action Type: ENFORCEMENT
Date: 04/05/2011
Action: Technical Correspondence / Assistance / Other

Global Id: T0605901585
Action Type: ENFORCEMENT
Date: 05/15/2012
Action: Technical Correspondence / Assistance / Other

Global Id: T0605901585
Action Type: RESPONSE
Date: 06/30/2008
Action: Monitoring Report - Other

Global Id: T0605901585
Action Type: ENFORCEMENT
Date: 04/30/2003
Action: * No Action

Global Id: T0605901585
Action Type: ENFORCEMENT
Date: 10/25/2006
Action: Staff Letter

Global Id: T0605901585
Action Type: ENFORCEMENT
Date: 10/17/2005
Action: 13267 Monitoring Program

Global Id: T0605901585
Action Type: Other
Date: 09/09/1992
Action: Leak Discovery

Global Id: T0605901585
Action Type: RESPONSE
Date: 04/30/2003
Action: Monitoring Report - Quarterly

Global Id: T0605901585
Action Type: RESPONSE
Date: 10/30/2007
Action: Monitoring Report - Other

TESORO /TARGET STORE T-293 (Continued) **S109284482**

Global Id: T0605901585
Action Type: ENFORCEMENT
Date: 07/16/2003
Action: 13267 Monitoring Program

LUST:
Global Id: T0605901585
Status: Completed - Case Closed
Status Date: 12/30/2015

Global Id: T0605901585
Status: Open - Case Begin Date
Status Date: 09/09/1992

Global Id: T0605901585
Status: Open - Eligible for Closure
Status Date: 07/03/2013

Global Id: T0605901585
Status: Open - Remediation
Status Date: 11/16/1994

Global Id: T0605901585
Status: Open - Site Assessment
Status Date: 09/09/1992

Global Id: T0605901585
Status: Open - Site Assessment
Status Date: 09/10/1993

Global Id: T0605901585
Status: Open - Site Assessment
Status Date: 09/08/2006

CERS TANKS:
Site ID: 227266
CERS ID: T0605901585
Site Name: TESORO /TARGET STORE T-293
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:
Affiliation Type Desc: Regional Board Caseworker
Entity Name: MIGUEL OVIEDO - SANTA ANA RWQCB (REGION 8)
Entity Title: Not reported
Affiliation Address: 3737 Main Street, Suite 500
Affiliation City: RIVERSIDE
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: 9517823238

Affiliation Type Desc: Local Agency Caseworker
Entity Name: STEPHEN LONG - FULLERTON, CITY OF
Entity Title: Not reported
Affiliation Address: 312 E. COMMONWEALTH AVE.
Affiliation City: FULLERTON

TESORO /TARGET STORE T-293 (Continued) **S109284482**

Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	7147383160

W149
ENE
1/4-1/2
0.373 mi.
1971 ft.

SELF SERVE
2978 YORBA LINDA BLVD
FULLERTON, CA 92631

CA SWEEPS UST **S101589113**
CA FID UST **N/A**
CA HIST CORTESE

Site 5 of 9 in cluster W

Relative:
Higher

Actual:
279 ft.

SWEEPS UST:

Status:	Active
Comp Number:	3838
Number:	2
Board Of Equalization:	44-000347
Referral Date:	06-29-92
Action Date:	08-14-92
Created Date:	12-31-88
Owner Tank Id:	Not reported
SWRCB Tank Id:	30-013-003838-000001
Tank Status:	A
Capacity:	12000
Active Date:	08-07-91
Tank Use:	M.V. FUEL
STG:	W
Content:	PRM UNLEADED
Number Of Tanks:	3

Status:	Active
Comp Number:	3838
Number:	2
Board Of Equalization:	44-000347
Referral Date:	06-29-92
Action Date:	08-14-92
Created Date:	12-31-88
Owner Tank Id:	Not reported
SWRCB Tank Id:	30-013-003838-000002
Tank Status:	A
Capacity:	12000
Active Date:	08-07-91
Tank Use:	M.V. FUEL
STG:	W
Content:	REG UNLEADED
Number Of Tanks:	Not reported

Status:	Active
Comp Number:	3838
Number:	2
Board Of Equalization:	44-000347
Referral Date:	06-29-92
Action Date:	08-14-92
Created Date:	12-31-88
Owner Tank Id:	Not reported
SWRCB Tank Id:	30-013-003838-000003
Tank Status:	A
Capacity:	12000

SELF SERVE (Continued) **S101589113**

Active Date: 08-07-92
Tank Use: M.V. FUEL
STG: W
Content: REG UNLEADED
Number Of Tanks: Not reported

CA FID UST:
Facility ID: 30001327
Regulated By: UTNKA
Regulated ID: Not reported
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 7149619372
Mail To: Not reported
Mailing Address: PO BOX
Mailing Address 2: Not reported
Mailing City,St,Zip: FULLERTON 92631
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Active

Facility ID: 30001327
Regulated By: UTNKI
Regulated ID: Not reported
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: Not reported
Mail To: Not reported
Mailing Address: PO BOX
Mailing Address 2: Not reported
Mailing City,St,Zip: FULLERTON 92631
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Inactive

HIST CORTESE:
Region: CORTESE
Facility County Code: 30
Reg By: LTNKA
Reg Id: 083002146T

W150 ENE 1/4-1/2 0.373 mi. 1971 ft.

TESORO GASOLINE DIGAS YORBA LINDA
2978 YORBA LINDA BLVD
YORBA LINDA, CA 92631

RCRA-SQG **1000341687**
CA LUST **CAD000629089**
CA SWEEPS UST

Site 6 of 9 in cluster W

Relative: Higher

Actual: 279 ft.

RCRA-SQG:

Date form received by agency:	09/01/1996
Facility name:	TESORO GASOLINE DIGAS YORBA LINDA
Facility address:	2978 YORBA LINDA BLVD YORBA LINDA, CA 92631
EPA ID:	CAD000629089
Mailing address:	9201 W OLYMPIC BLVD BEVERLY HILLS, CA 90212
Contact:	Not reported
Contact address:	Not reported Not reported
Contact country:	US
Contact telephone:	Not reported
Contact email:	Not reported
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	NOT REQUIRED
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	415-555-1212
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	TESORO GASOLINE MARKETING CO
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	415-555-1212
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No

TESORO GASOLINE DIGAS YORBA LINDA (Continued) **1000341687**

Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Historical Generators:

Date form received by agency:	08/18/1980
Site name:	TESORO GASOLINE DIGAS YORBA LINDA
Classification:	Large Quantity Generator
Violation Status:	No violations found

LUST REG 8:

Region:	8
County:	Orange
Regional Board:	Santa Ana Region
Facility Status:	Remediation Plan
Case Number:	083002146T
Local Case Num:	Not reported
Case Type:	Aquifer affected
Substance:	Unleaded Gasoline
Qty Leaked:	Not reported
Abate Method:	Excavate and Dispose - remove contaminated soil and dispose in approved site
Cross Street:	Not reported
Enf Type:	MRPO
Funding:	Not reported
How Discovered:	OM
How Stopped:	Not reported
Leak Cause:	UNK
Leak Source:	Piping
Global ID:	T0605901585
How Stopped Date:	Not reported
Enter Date:	12/22/1992
Date Confirmation of Leak Began:	9/9/1992
Date Preliminary Assessment Began:	Not reported
Discover Date:	9/9/1992
Enforcement Date:	Not reported
Close Date:	Not reported
Date Prelim Assessment Workplan Submitted:	Not reported
Date Pollution Characterization Began:	9/10/1993
Date Remediation Plan Submitted:	11/16/1994
Date Remedial Action Underway:	Not reported
Date Post Remedial Action Monitoring:	Not reported
Enter Date:	12/22/1992
GW Qualifies:	=
Soil Qualifies:	Not reported
Operator:	Not reported

TESORO GASOLINE DIGAS YORBA LINDA (Continued) **1000341687**

Facility Contact:	Not reported
Interim:	Not reported
Oversite Program:	LUST
Latitude:	33.88888256
Longitude:	-117.8768014
MTBE Date:	7/20/2004
Max MTBE GW:	430
MTBE Concentration:	1
Max MTBE Soil:	Not reported
MTBE Fuel:	1
MTBE Tested:	MTBE Detected. Site tested for MTBE & MTBE detected
MTBE Class:	D
Staff:	TME
Staff Initials:	SRL
Lead Agency:	Regional Board
Local Agency:	30013
Hydr Basin #:	COASTAL PLAIN OF ORA
Beneficial:	Not reported
Priority:	Not reported
Cleanup Fund Id:	Not reported
Work Suspended:	Not reported
Summary:	PROPOSING VE, RECENTLY SUBMITTED WORK PLAN FOR UPGRADIENT INVESTIGATION. (12/17/96)

SWEEPS UST:

Status:	Not reported
Comp Number:	10567
Number:	Not reported
Board Of Equalization:	Not reported
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	30-013-010567-000002
Tank Status:	Not reported
Capacity:	550
Active Date:	Not reported
Tank Use:	OIL
STG:	WASTE
Content:	WASTE OIL
Number Of Tanks:	1

W151 **EXXON #7-3333** **CA LUST** **S101588968**
ENE **3000 E YORBA LINDA BLVD** **CA SWEEPS UST** **N/A**
1/4-1/2 **FULLERTON, CA 92631** **CA HIST UST**
0.401 mi. **CA FID UST**
2119 ft. **Site 7 of 9 in cluster W** **CA CERS**

Relative:
Higher

Actual:
279 ft.

LUST:

Lead Agency:	SANTA ANA RWQCB (REGION 8)
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0605900453
Global Id:	T0605900453
Latitude:	33.8890249
Longitude:	-117.8746179
Status:	Completed - Case Closed
Status Date:	05/30/2002

EXXON #7-3333 (Continued) **S101588968**

Case Worker:	CAB
RB Case Number:	083000567T
Local Agency:	FULLERTON, CITY OF
File Location:	Not reported
Local Case Number:	Not reported
Potential Media Affect:	Aquifer used for drinking water supply
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

LUST:

Global Id:	T0605900453
Contact Type:	Regional Board Caseworker
Contact Name:	CARL BERNHARDT
Organization Name:	SANTA ANA RWQCB (REGION 8)
Address:	3737 MAIN STREET, SUITE 500
City:	RIVERSIDE
Email:	carl.bernhardt@waterboards.ca.gov
Phone Number:	9517824495

Global Id:	T0605900453
Contact Type:	Local Agency Caseworker
Contact Name:	STEPHEN LONG
Organization Name:	FULLERTON, CITY OF
Address:	312 E. COMMONWEALTH AVE.
City:	FULLERTON
Email:	stevel@fullertonfire.org
Phone Number:	7147383160

LUST:

Global Id:	T0605900453
Action Type:	Other
Date:	04/15/1992
Action:	Leak Reported

Global Id:	T0605900453
Action Type:	ENFORCEMENT
Date:	12/20/2002
Action:	* No Action

Global Id:	T0605900453
Action Type:	ENFORCEMENT
Date:	05/30/2002
Action:	Closure/No Further Action Letter

Global Id:	T0605900453
Action Type:	REMEDIATION
Date:	04/11/1994
Action:	Soil Vapor Extraction (SVE)

Global Id:	T0605900453
Action Type:	RESPONSE
Date:	12/20/2002
Action:	Unknown

Global Id:	T0605900453
Action Type:	Other
Date:	04/14/1992

EXXON #7-3333 (Continued) **S101588968**

Action: Leak Discovery

Global Id: T0605900453
Action Type: Other
Date: 04/14/1992
Action: Leak Stopped

LUST:
Global Id: T0605900453
Status: Completed - Case Closed
Status Date: 05/30/2002

Global Id: T0605900453
Status: Open - Case Begin Date
Status Date: 04/14/1992

Global Id: T0605900453
Status: Open - Remediation
Status Date: 04/11/1994

Global Id: T0605900453
Status: Open - Site Assessment
Status Date: 04/14/1992

Global Id: T0605900453
Status: Open - Site Assessment
Status Date: 04/15/1992

Global Id: T0605900453
Status: Open - Verification Monitoring
Status Date: 09/30/1999

ORANGE CO. LUST:
Region: ORANGE
Facility Id: 88UT033
Released Substance: Gasoline-Automotive (motor gasoline and additives), leaded & unleaded
Date Closed: 11/01/1988
Record ID: RO0001602

SWEEPS UST:
Status: Not reported
Comp Number: 2099
Number: Not reported
Board Of Equalization: Not reported
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 30-013-002099-000001
Tank Status: Not reported
Capacity: 8000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: REG UNLEADED

EXXON #7-3333 (Continued) **S101588968**

Number Of Tanks: 4

Status: Not reported
Comp Number: 2099
Number: Not reported
Board Of Equalization: Not reported
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 30-013-002099-000005
Tank Status: Not reported
Capacity: 8000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: WASTE
Content: REG UNLEADED
Number Of Tanks: 4

Status: Not reported
Comp Number: 2099
Number: Not reported
Board Of Equalization: Not reported
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 30-013-002099-000006
Tank Status: Not reported
Capacity: 8000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: WASTE
Content: PRM UNLEADED
Number Of Tanks: 4

Status: Not reported
Comp Number: 2099
Number: Not reported
Board Of Equalization: Not reported
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 30-013-002099-000007
Tank Status: Not reported
Capacity: 1000
Active Date: Not reported
Tank Use: PETROLEUM
STG: WASTE
Content: WASTE OIL
Number Of Tanks: Not reported

HIST UST:
File Number: 0002E8C0
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002E8C0.pdf
Region: Not reported

EXXON #7-3333 (Continued) **S101588968**

Facility ID:	Not reported
Facility Type:	Not reported
Other Type:	Not reported
Contact Name:	Not reported
Telephone:	Not reported
Owner Name:	Not reported
Owner Address:	Not reported
Owner City,St,Zip:	Not reported
Total Tanks:	Not reported

Tank Num:	Not reported
Container Num:	Not reported
Year Installed:	Not reported
Tank Capacity:	Not reported
Tank Used for:	Not reported
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	Not reported

Click here for Geo Tracker PDF:

CA FID UST:

Facility ID:	30000633
Regulated By:	UTNKI
Regulated ID:	Not reported
Cortese Code:	Not reported
SIC Code:	Not reported
Facility Phone:	7145282361
Mail To:	Not reported
Mailing Address:	34 EXECUTIVE PARK
Mailing Address 2:	Not reported
Mailing City,St,Zip:	FULLERTON 92631
Contact:	Not reported
Contact Phone:	Not reported
DUNs Number:	Not reported
NPDES Number:	Not reported
EPA ID:	Not reported
Comments:	Not reported
Status:	Inactive

CERS TANKS:

Site ID:	192269
CERS ID:	T0605900453
Site Name:	EXXON SERVICE STATION #3333
CERS Description:	Leaking Underground Storage Tank Cleanup Site

Affiliation:

Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	CARL BERNHARDT - SANTA ANA RWQCB (REGION 8)
Entity Title:	Not reported
Affiliation Address:	3737 MAIN STREET, SUITE 500
Affiliation City:	RIVERSIDE
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	9517824495

EXXON #7-3333 (Continued) **S101588968**

Affiliation Type Desc:	Local Agency Caseworker
Entity Name:	STEPHEN LONG - FULLERTON, CITY OF
Entity Title:	Not reported
Affiliation Address:	312 E. COMMONWEALTH AVE.
Affiliation City:	FULLERTON
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	7147383160

W152 **EXXON SERVICE STATION** **CA LUST** **U001576969**
ENE **3000 YORBA LINDA BLVD** **CA HIST UST** **N/A**
1/4-1/2 **FULLERTON, CA 92631**
0.401 mi.
2119 ft. **Site 8 of 9 in cluster W**

Relative:
Higher

Actual:
279 ft.

LUST REG 8:

Region:	8
County:	Orange
Regional Board:	Santa Ana Region
Facility Status:	Post remedial action monitoring
Case Number:	Not reported
Local Case Num:	88UT033
Case Type:	Soil only
Substance:	Gasoline
Qty Leaked:	0
Abate Method:	Not reported
Cross Street:	Not reported
Enf Type:	Not reported
Funding:	Not reported
How Discovered:	Tank Closure
How Stopped:	Close Tank
Leak Cause:	Unknown
Leak Source:	Unknown
Global ID:	T0605945078
How Stopped Date:	9/9/9999
Enter Date:	Not reported
Date Confirmation of Leak Began:	Not reported
Date Preliminary Assessment Began:	Not reported
Discover Date:	1/1/1965
Enforcement Date:	Not reported
Close Date:	11/1/1988
Date Prelim Assessment Workplan Submitted:	Not reported
Date Pollution Characterization Began:	Not reported
Date Remediation Plan Submitted:	Not reported
Date Remedial Action Underway:	Not reported
Date Post Remedial Action Monitoring:	3/27/2003
Enter Date:	Not reported
GW Qualifies:	Not reported
Soil Qualifies:	Not reported
Operator:	Not reported
Facility Contact:	Not reported
Interim:	Not reported
Oversite Program:	LUST
Latitude:	Not reported
Longitude:	Not reported
MTBE Date:	Not reported

EXXON SERVICE STATION (Continued) **U001576969**

Max MTBE GW:	Not reported
MTBE Concentration:	0
Max MTBE Soil:	Not reported
MTBE Fuel:	1
MTBE Tested:	Site NOT Tested for MTBE.Includes Unknown and Not Analyzed.
MTBE Class:	*
Staff:	CAB
Staff Initials:	WJ
Lead Agency:	Local Agency
Local Agency:	30000L
Hydr Basin #:	Not reported
Beneficial:	MUN
Priority:	Not reported
Cleanup Fund Id:	Not reported
Work Suspended:	Not reported
Summary:	Not reported

HIST UST:

File Number:	Not reported
URL:	Not reported
Region:	STATE
Facility ID:	00000023988
Facility Type:	Gas Station
Other Type:	Not reported
Contact Name:	GALEN DOBSON
Telephone:	7145282361
Owner Name:	EXXON COMPANY U.S.A.
Owner Address:	16945 NORTHCHASE BLVD.
Owner City,St,Zip:	HOUSTON, TX 77210
Total Tanks:	0004
Tank Num:	001
Container Num:	1
Year Installed:	1967
Tank Capacity:	00008000
Tank Used for:	PRODUCT
Type of Fuel:	PREMIUM
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor
Tank Num:	002
Container Num:	2
Year Installed:	1967
Tank Capacity:	00008000
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor
Tank Num:	003
Container Num:	3
Year Installed:	1967
Tank Capacity:	00008000
Tank Used for:	PRODUCT
Type of Fuel:	REGULAR
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor

EXXON SERVICE STATION (Continued) **U001576969**

Tank Num:	004
Container Num:	4
Year Installed:	1967
Tank Capacity:	00001000
Tank Used for:	PRODUCT
Type of Fuel:	WASTE OIL
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor

W153 **TACO BELL STORE 9489** **CA LUST** **S104164210**
ENE **3000 YORBA LINDA BLVD** **CA CERS** **N/A**
1/4-1/2 **FULLERTON, CA 92831**
0.401 mi.
2119 ft. **Site 9 of 9 in cluster W**

Relative:
Higher

Actual:
279 ft.

LUST REG 8:

Region:	8
County:	Orange
Regional Board:	Santa Ana Region
Facility Status:	Case Closed
Case Number:	083000567T
Local Case Num:	Not reported
Case Type:	Aquifer affected
Substance:	Gasoline
Qty Leaked:	Not reported
Abate Method:	Vapor Extraction
Cross Street:	Not reported
Enf Type:	None Taken
Funding:	Not reported
How Discovered:	Tank Closure
How Stopped:	Not reported
Leak Cause:	Undefined
Leak Source:	Undefined
Global ID:	T0605900453
How Stopped Date:	4/14/1992
Enter Date:	7/20/1987
Date Confirmation of Leak Began:	4/14/1992
Date Preliminary Assessment Began:	4/15/1992
Discover Date:	4/14/1992
Enforcement Date:	Not reported
Close Date:	5/30/2002
Date Prelim Assessment Workplan Submitted:	Not reported
Date Pollution Characterization Began:	Not reported
Date Remediation Plan Submitted:	Not reported
Date Remedial Action Underway:	4/11/1994
Date Post Remedial Action Monitoring:	9/30/1999
Enter Date:	7/20/1987
GW Qualifies:	=
Soil Qualifies:	Not reported
Operator:	Not reported
Facility Contact:	Not reported
Interim:	Not reported
Oversite Program:	LUST
Latitude:	33.8889175
Longitude:	-117.8744613
MTBE Date:	11/26/1996
Max MTBE GW:	880
MTBE Concentration:	1

TACO BELL STORE 9489 (Continued) **S104164210**

Max MTBE Soil:	Not reported
MTBE Fuel:	1
MTBE Tested:	MTBE Detected. Site tested for MTBE & MTBE detected
MTBE Class:	Not reported
Staff:	CAB
Staff Initials:	SRL
Lead Agency:	Regional Board
Local Agency:	30013
Hydr Basin #:	COASTAL PLAIN OF ORA
Beneficial:	Not reported
Priority:	Not reported
Cleanup Fund Id:	Not reported
Work Suspended:	Not reported
Summary:	Not reported

CERS TANKS:

Site ID:	73699
CERS ID:	10469551
Site Name:	TACO BELL STORE 9489
CERS Description:	Chemical Storage Facilities

Evaluation:

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-15-2014
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS

Coordinates:

Site ID:	73699
Facility Name:	TACO BELL STORE 9489
Env Int Type Code:	HMBP
Program ID:	10469551
Coord Name:	Not reported
Ref Point Type Desc:	Center of a facility or station.
Latitude:	33.888730
Longitude:	-117.874240

Affiliation:

Affiliation Type Desc:	Document Preparer
Entity Name:	MARY SEIFFERT
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	1 GLEN BELL WAY

TACO BELL STORE 9489 (Continued) **S104164210**

Affiliation City:	IRVINE
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92618
Affiliation Phone:	Not reported

Affiliation Type Desc:	Identification Signer
Entity Name:	MARY SEIFFERT
Entity Title:	ANALYST/PROPERTY MANAGER
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Parent Corporation
Entity Name:	TACO BELL STORE 009489 FULLERTON
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	CUPA District
Entity Name:	Orange County Env Health
Entity Title:	Not reported
Affiliation Address:	1241 East Dyer RoadSuite 120
Affiliation City:	Santa Ana
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92705-5611
Affiliation Phone:	(714) 433-6000

Affiliation Type Desc:	Environmental Contact
Entity Name:	MARY SEIFFERT
Entity Title:	Not reported
Affiliation Address:	1 GLEN BELL WAY
Affiliation City:	IRVINE
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92618
Affiliation Phone:	Not reported

Affiliation Type Desc:	Legal Owner
Entity Name:	TACO BELL CORP.
Entity Title:	Not reported
Affiliation Address:	1 GLEN BELL WAY
Affiliation City:	IRVINE
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92618
Affiliation Phone:	(949) 863-4500

Affiliation Type Desc:	Operator

TACO BELL STORE 9489 (Continued) **S104164210**

Entity Name:	Ivanka Herrera
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(714) 365-9932

X154
ENE
1/4-1/2
0.420 mi.
2215 ft.

UNOCAL #5722
3001 YORBA LINDA
FULLERTON, CA

CA HIST CORTESE **S102440334**
N/A

Site 1 of 3 in cluster X

Relative:
Higher

Actual:
282 ft.

HIST CORTESE:

Region:	CORTESE
Facility County Code:	30
Reg By:	LTNKA
Reg Id:	083001689T

X155
ENE
1/4-1/2
0.420 mi.
2215 ft.

UNION SERVICE CENTER
3001 YORBA LINDA BLVD
FULLERTON, CA 92831

CA LUST **U003942708**
CA UST **N/A**

Site 2 of 3 in cluster X

Relative:
Higher

Actual:
282 ft.

LUST REG 8:

Region:	8
County:	Orange
Regional Board:	Santa Ana Region
Facility Status:	Case Closed
Case Number:	083001689T
Local Case Num:	Not reported
Case Type:	Soil only
Substance:	Gasoline
Qty Leaked:	Not reported
Abate Method:	Excavate and Dispose - remove contaminated soil and dispose in approved site
Cross Street:	PLACENTIA
Enf Type:	None Taken
Funding:	Not reported
How Discovered:	Tank Closure
How Stopped:	Not reported
Leak Cause:	UNK
Leak Source:	UNK
Global ID:	T0605901275
How Stopped Date:	10/5/1990
Enter Date:	12/15/1990
Date Confirmation of Leak Began:	10/5/1990
Date Preliminary Assessment Began:	Not reported
Discover Date:	10/5/1990
Enforcement Date:	1/1/1965
Close Date:	7/26/1991
Date Prelim Assessment Workplan Submitted:	Not reported

UNION SERVICE CENTER (Continued) **U003942708**

Date Pollution Characterization Began:	Not reported
Date Remediation Plan Submitted:	Not reported
Date Remedial Action Underway:	Not reported
Date Post Remedial Action Monitoring:	Not reported
Enter Date:	12/15/1990
GW Qualifies:	Not reported
Soil Qualifies:	Not reported
Operator:	Not reported
Facility Contact:	Not reported
Interim:	Not reported
Oversite Program:	LUST
Latitude:	33.8892915
Longitude:	-117.8744123
MTBE Date:	Not reported
Max MTBE GW:	Not reported
MTBE Concentration:	0
Max MTBE Soil:	Not reported
MTBE Fuel:	1
MTBE Tested:	Site NOT Tested for MTBE.Includes Unknown and Not Analyzed.
MTBE Class:	*
Staff:	NOM
Staff Initials:	SRL
Lead Agency:	Local Agency
Local Agency:	30013
Hydr Basin #:	COASTAL PLAIN OF ORA
Beneficial:	Not reported
Priority:	Not reported
Cleanup Fund Id:	Not reported
Work Suspended:	Not reported
Summary:	Not reported

UST:

Facility ID:	2102
Permitting Agency:	FULLERTON, CITY OF
Latitude:	33.89083
Longitude:	-117.872725

Facility ID:	FA0051612
Permitting Agency:	Orange County Environmental Health
Latitude:	33.88948
Longitude:	-117.87408

X156 **UNOCAL #5722** **CA LUST** **S101589454**
ENE **3001 E YORBA LINDA BLVD** **CA SWEEPS UST** **N/A**
1/4-1/2 **FULLERTON, CA 92631** **CA FID UST**
0.420 mi. **CA CERS**
2215 ft. **Site 3 of 3 in cluster X**

Relative: Higher
Actual: 282 ft.

LUST:

Lead Agency:	FULLERTON, CITY OF
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0605901275
Global Id:	T0605901275
Latitude:	33.889482
Longitude:	-117.874058
Status:	Completed - Case Closed
Status Date:	07/26/1991

UNOCAL #5722 (Continued) **S101589454**

Case Worker:	SRL
RB Case Number:	083001689T
Local Agency:	FULLERTON, CITY OF
File Location:	Not reported
Local Case Number:	Not reported
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

LUST:

Global Id:	T0605901275
Contact Type:	Regional Board Caseworker
Contact Name:	NANCY OLSON-MARTIN
Organization Name:	SANTA ANA RWQCB (REGION 8)
Address:	3737 MAIN STREET, SUITE 500
City:	RIVERSIDE
Email:	nolson-martin@waterboards.ca.gov
Phone Number:	Not reported

Global Id:	T0605901275
Contact Type:	Local Agency Caseworker
Contact Name:	STEPHEN LONG
Organization Name:	FULLERTON, CITY OF
Address:	312 E. COMMONWEALTH AVE.
City:	FULLERTON
Email:	stevel@fullertonfire.org
Phone Number:	7147383160

LUST:

Global Id:	T0605901275
Action Type:	Other
Date:	10/15/1990
Action:	Leak Reported

Global Id:	T0605901275
Action Type:	Other
Date:	10/05/1990
Action:	Leak Discovery

Global Id:	T0605901275
Action Type:	Other
Date:	10/05/1990
Action:	Leak Stopped

LUST:

Global Id:	T0605901275
Status:	Completed - Case Closed
Status Date:	07/26/1991

Global Id:	T0605901275
Status:	Open - Case Begin Date
Status Date:	10/05/1990

Global Id:	T0605901275
Status:	Open - Site Assessment
Status Date:	10/05/1990

UNOCAL #5722 (Continued) **S101589454**

ORANGE CO. LUST:

Region:	ORANGE
Facility Id:	90UT221
Released Substance:	Gasoline-Automotive (motor gasoline and additives), leaded & unleaded
Date Closed:	04/01/1991
Record ID:	RO0002264

SWEEPS UST:

Status:	Active
Comp Number:	2102
Number:	9
Board Of Equalization:	Not reported
Referral Date:	02-11-92
Action Date:	02-11-92
Created Date:	12-31-88
Owner Tank Id:	50
SWRCB Tank Id:	30-013-002102-000001
Tank Status:	A
Capacity:	550
Active Date:	Not reported
Tank Use:	UNKNOWN
STG:	W
Content:	OTHER
Number Of Tanks:	3

Status:	Active
Comp Number:	2102
Number:	9
Board Of Equalization:	Not reported
Referral Date:	02-11-92
Action Date:	02-11-92
Created Date:	12-31-88
Owner Tank Id:	50
SWRCB Tank Id:	30-013-002102-000004
Tank Status:	A
Capacity:	10000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	W
Content:	REG UNLEADED
Number Of Tanks:	Not reported

Status:	Active
Comp Number:	2102
Number:	9
Board Of Equalization:	Not reported
Referral Date:	02-11-92
Action Date:	02-11-92
Created Date:	12-31-88
Owner Tank Id:	50
SWRCB Tank Id:	30-013-002102-000005
Tank Status:	A
Capacity:	10000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	W

UNOCAL #5722 (Continued) **S101589454**

Content: DIESEL
Number Of Tanks: Not reported

CA FID UST:
Facility ID: 30013005
Regulated By: UTNKA
Regulated ID: Not reported
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 7145286701
Mail To: Not reported
Mailing Address: 17700 CASTLETON ST
Mailing Address 2: Not reported
Mailing City,St,Zip: FULLERTON 92631
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Active

CERS TANKS:
Site ID: 196879
CERS ID: T0605901275
Site Name: UNOCAL #5722
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:
Affiliation Type Desc: Local Agency Caseworker
Entity Name: STEPHEN LONG - FULLERTON, CITY OF
Entity Title: Not reported
Affiliation Address: 312 E. COMMONWEALTH AVE.
Affiliation City: FULLERTON
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: 7147383160

Affiliation Type Desc: Regional Board Caseworker
Entity Name: NANCY OLSON-MARTIN - SANTA ANA RWQCB (REGION 8)
Entity Title: Not reported
Affiliation Address: 3737 MAIN STREET, SUITE 500
Affiliation City: RIVERSIDE
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

157 SE 1/4-1/2 0.441 mi. 2329 ft. | **RENOVATE RECYCLING CENTER INC**
516 W CHAPMAN AVE
PLACENTIA, CA 92870 | **CA SWRCY**
CA NPDES | **S108240328**
N/A

Relative: Lower

Actual: 234 ft.

SWRCY:

Reg Id:	147612
Cert Id:	RC147612.001
Mailing Address:	929 S Figueroa St
Mailing City:	Santa Ana
Mailing State:	CA
Mailing Zip Code:	92704
Website:	Not reported
Email:	garcia-edwin@hotmail.com
Phone Number:	(714) 453-7028
Rural:	N
Operation Begin Date:	11/01/2011
Aluminium:	Y
Glass:	Y
Plastic:	Y
Bimetal:	Y
Hours of Operation:	Mon - Fri 9:00 am - 5:00 pm; Sat 9:00 am - 2:00 pm; Sun Closed
Organization ID:	143582
Organization Name:	Renovate Recycling Center Inc

NPDES:

Facility Status:	Not reported
NPDES Number:	Not reported
Region:	Not reported
Agency Number:	Not reported
Regulatory Measure ID:	Not reported
Place ID:	Not reported
Order Number:	Not reported
WDID:	8 30NNA000220
Regulatory Measure Type:	Industrial
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	Not reported
Discharge Name:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Status:	NONA Submitted
Status Date:	04/13/2017
Operator Name:	Renovate Recycling Center Inc
Operator Address:	929 South Figueroa Street
Operator City:	Santa Ana
Operator State:	California
Operator Zip:	92704

Y158 South 1/2-1 0.540 mi. 2849 ft. | **VEECO ELECTRO FAB, INC. - FULLERTON**
2488 E. FENDER AVENUE #F
FULLERTON, CA 92631

CA ENVIROSTOR | **S110494444**
N/A

Site 1 of 2 in cluster Y

Relative: Lower

Actual: 206 ft.

ENVIROSTOR:

Facility ID:	71003413
Status:	Inactive - Needs Evaluation
Status Date:	Not reported
Site Code:	Not reported
Site Type:	Tiered Permit
Site Type Detailed:	Tiered Permit
Acres:	Not reported
NPL:	NO
Regulatory Agencies:	NONE SPECIFIED
Lead Agency:	NONE SPECIFIED
Program Manager:	Not reported
Supervisor:	Not reported
Division Branch:	Cleanup Cypress
Assembly:	Not reported
Senate:	Not reported
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Not reported
Latitude:	33.86765
Longitude:	-117.8848
APN:	NONE SPECIFIED
Past Use:	NONE SPECIFIED
Potential COC:	NONE SPECIFIED
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	CAL922265516
Alias Type:	EPA Identification Number
Alias Name:	71003413
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	Not reported
Completed Sub Area Name:	Not reported
Completed Document Type:	Not reported
Completed Date:	Not reported
Comments:	Not reported
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

159 South 1/2-1 0.540 mi. 2851 ft. | **CYCLAMATION, INC.**
2548 FENDER AVENUE, UNIT G
FULLERTON, CA 92831 | **MO RRC** | **S122873299**
N/A

Relative: Lower
Actual: 208 ft.

RRC:

Classification:	RRC
Facility ID:	560
Facility Contact:	TALTON C. KENDRICK
Facility Phone:	(800) 400-1866
EPA Id:	MOCYCLA_NOID
Missouri Id:	Not reported
Job Code:	NJ11CYCL
Process:	DISTILLS SPENT SOLVENTS
Exp Date:	11/24/2010
Region:	Not reported
Status:	I
Contact Address:	Not reported
Contact City:	Not reported
Contact State:	Not reported
Contact Zip:	Not reported
WO:	Not reported
Char:	Not reported
Listed:	Not reported
UGS:	Not reported
AGS:	Not reported
DRS:	Not reported
Reports:	Not reported
Facility Type:	Not reported
Not Date:	Not reported
Exp Date:	11/24/2012

Y160 South 1/2-1 0.547 mi. 2889 ft. | **BRIGHT ARMOR PLATING SHOP (FORMER)**
2466-B EAST FENDER AVENUE
FULLERTON, CA 92831 | **CA ENVIROSTOR** | **S106893798**
N/A

Site 2 of 2 in cluster Y

Relative: Lower
Actual: 205 ft.

ENVIROSTOR:

Facility ID:	30340302
Status:	Refer: 1248 Local Agency
Status Date:	07/12/2000
Site Code:	Not reported
Site Type:	Evaluation
Site Type Detailed:	Evaluation
Acres:	0
NPL:	NO
Regulatory Agencies:	ORANGE COUNTY
Lead Agency:	ORANGE COUNTY
Program Manager:	Not reported
Supervisor:	Referred - Not Assigned
Division Branch:	Cleanup Cypress
Assembly:	65
Senate:	29
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Not Applicable
Latitude:	33.86766

BRIGHT ARMOR PLATING SHOP (FORMER) (Continued) **S106893798**

Longitude:	-117.8859
APN:	NONE SPECIFIED
Past Use:	NONE SPECIFIED
Potential COC:	NONE SPECIFIED
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	30340302
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	SB 1248 Notification
Completed Date:	07/11/2000
Comments:	DTSC is not involved with this project.
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

Z161 **FULLERTON DAM** **CA ENVIROSTOR** **S107736367**
North **N/A**
1/2-1 **FULLERTON, CA**
0.576 mi.
3040 ft. **Site 1 of 2 in cluster Z**

Relative:
Higher

Actual:
301 ft.

ENVIROSTOR:

Facility ID:	80000253
Status:	Inactive - Needs Evaluation
Status Date:	07/01/2005
Site Code:	Not reported
Site Type:	Military Evaluation
Site Type Detailed:	FUDS
Acres:	0
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Not reported
Supervisor:	Douglas Bautista
Division Branch:	Cleanup Cypress
Assembly:	65
Senate:	29
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	DERA
Latitude:	33.89722
Longitude:	-117.8847
APN:	NONE SPECIFIED
Past Use:	NONE SPECIFIED
Potential COC:	NONE SPECIFIED
Confirmed COC:	NONE SPECIFIED

FULLERTON DAM (Continued) **S107736367**

Potential Description: NONE SPECIFIED
Alias Name: CA99799F544800
Alias Type: Federal Facility ID
Alias Name: J09CA0373
Alias Type: INPR
Alias Name: 80000253
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Inventory Project Report (INPR)
Completed Date: 01/06/1992
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

Z162 **FULLERTON DAM-E FULLERTON CREE** **FUDS** **1024903537**
North **N/A**
1/2-1 **FULLERTON, CA**
0.576 mi.
3041 ft. **Site 2 of 2 in cluster Z**

Relative:
Higher

Actual:
301 ft.

FUDS:
EPA Region: 9
Installation ID: CA99799F544800
Congressional District Number: 39
Facility Name: FULLERTON DAM-E FULLERTON CREE
FUDS Number: J09CA0373
City: FULLERTON
State: CA
County: ORANGE COUNTY
Telephone: 213-452-3920
USACE Division: South Pacific Division (SPD)
USACE District: Los Angeles District (SPL)
Status: Properties without projects
Current Owner: Other
X Coord: -13122867.249820599
Y Coord: 4015009.8161313501
Latitude: 33.897222220000003
Longitude: -117.88472222

163 SSW 1/2-1 0.609 mi. 3218 ft. | **E D O CORP**
300 S STATE COLLEGE BLVD
FULLERTON, CA 92631 | **CA ENVIROSTOR** | **S108224060**
CA Orange Co. Industrial Site | **N/A**

Relative: Lower

Actual: 206 ft.

ENVIROSTOR:

Facility ID:	60001525
Status:	Refer: RWQCB
Status Date:	02/15/2012
Site Code:	401600
Site Type:	Evaluation
Site Type Detailed:	Evaluation
Acres:	4
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Rana Georges
Supervisor:	Thomas Cota
Division Branch:	Southern California Schools & Brownfields Outreach
Assembly:	65
Senate:	29
Special Program:	EPA - PASI
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	EPA Grant
Latitude:	33.86768
Longitude:	-117.8884
APN:	NONE SPECIFIED
Past Use:	HAZARDOUS WASTE STORAGE - TANKS/CONTAINERS, MANUFACTURING - CERAMICS, MANUFACTURING - OTHER, VEHICLE MAINTENANCE
Potential COC:	Tetrachloroethylene (PCE Trichloroethylene (TCE
Confirmed COC:	Tetrachloroethylene (PCE Trichloroethylene (TCE
Potential Description:	AQUI
Alias Name:	401600
Alias Type:	Project Code (Site Code)
Alias Name:	60001525
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	PA/SI Site Screening
Completed Date:	02/15/2012
Comments:	Not reported
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

Orange Co. Industrial Site:

Case ID:	93IC013
Record ID:	RO0000425

E D O CORP (Continued) **S108224060**

Current Status: CLOSED 10/4/1993
Closure Type: Closure certification issued
Released Chemical: HEAVY METAL WASTE - NON-PLATING

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164 South 1/2-1 0.644 mi. 3402 ft. **MDC CENTER(FORMER)** **CA ENVIROSTOR** **S106893786**
601-629 S. PLACENTIA AVENUE **N/A**
FULLERTON, CA 92831

Relative: Lower
Actual: 206 ft.

ENVIROSTOR:
Facility ID: 30000012
Status: Refer: 1248 Local Agency
Status Date: 01/26/2000
Site Code: Not reported
Site Type: Evaluation
Site Type Detailed: Evaluation
Acres: 0
NPL: NO
Regulatory Agencies: ORANGE COUNTY
Lead Agency: ORANGE COUNTY
Program Manager: Not reported
Supervisor: Referred - Not Assigned
Division Branch: Cleanup Cypress
Assembly: 65
Senate: 29
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not Applicable
Latitude: 33.87578
Longitude: -117.8790
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: 30000012
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: SB 1248 Notification
Completed Date: 01/21/2000
Comments: DTSC is not involved with this project.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

165 South 1/2-1 0.679 mi. 3586 ft. | **ITW HI-CONE DIV OF ILLINOIS TOOL WORKS**
500 S STATE COLLEGE BLVD
FULLERTON, CA 92631

CA ENVIROSTOR
CA EMI
CA NPDES
CA WDS
CA CERS

S102806411
N/A

Relative: Lower

Actual: 202 ft.

ENVIROSTOR:

Facility ID:	60001513
Status:	Refer: RWQCB
Status Date:	02/15/2012
Site Code:	401587
Site Type:	Evaluation
Site Type Detailed:	Evaluation
Acres:	3
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Rana Georges
Supervisor:	Thomas Cota
Division Branch:	Southern California Schools & Brownfields Outreach
Assembly:	65
Senate:	29
Special Program:	EPA - PASI
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	EPA Grant
Latitude:	33.86654
Longitude:	-117.8881
APN:	NONE SPECIFIED
Past Use:	HAZARDOUS WASTE STORAGE - TANKS/CONTAINERS
Potential COC:	Tetrachloroethylene (PCE Trichloroethylene (TCE
Confirmed COC:	30022-NO 30027-NO
Potential Description:	AQUI
Alias Name:	401587
Alias Type:	Project Code (Site Code)
Alias Name:	60001513
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	PA/SI Site Screening
Completed Date:	02/15/2012
Comments:	Not reported
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

EMI:

Year:	2002
County Code:	30
Air Basin:	SC

ITW HI-CONE DIV OF ILLINOIS TOOL WORKS (Continued) **S102806411**

Facility ID:	100987
Air District Name:	SC
SIC Code:	3082
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	2
Part. Matter 10 Micrometers and Smllr Tons/Yr:	1

Year:	2003
County Code:	30
Air Basin:	SC
Facility ID:	100987
Air District Name:	SC
SIC Code:	3082
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	2
Part. Matter 10 Micrometers and Smllr Tons/Yr:	1

Year:	2004
County Code:	30
Air Basin:	SC
Facility ID:	100987
Air District Name:	SC
SIC Code:	3082
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.407
Reactive Organic Gases Tons/Yr:	0.41
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	1.546
Part. Matter 10 Micrometers and Smllr Tons/Yr:	1.08

NPDES:

Facility Status:	Not reported
NPDES Number:	Not reported
Region:	Not reported
Agency Number:	Not reported
Regulatory Measure ID:	Not reported
Place ID:	Not reported
Order Number:	Not reported
WDID:	8 30C374753

ITW HI-CONE DIV OF ILLINOIS TOOL WORKS (Continued) **S102806411**

Regulatory Measure Type:	Construction
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	Not reported
Discharge Name:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Status:	Terminated
Status Date:	02/09/2017
Operator Name:	CJ Foods Manufacturing Co
Operator Address:	500 South State College Boulevard
Operator City:	Fullerton
Operator State:	California
Operator Zip:	92831

NPDES as of 03/2018:

NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported
Region:	8
Regulatory Measure ID:	466815
Order Number:	Not reported
Regulatory Measure Type:	Construction
Place ID:	Not reported
WDID:	8 30C374753
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	01/18/2017
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Received Date:	11/17/2015
Processed Date:	12/02/2015
Status:	Terminated
Status Date:	02/09/2017
Place Size:	6.84
Place Size Unit:	Acres
Contact:	Danny Chung
Contact Title:	Not reported
Contact Phone:	714-888-8218
Contact Phone Ext:	Not reported
Contact Email:	danny.chung@cj.net
Operator Name:	CJ Foods Manufacturing Co
Operator Address:	500 South State College Boulevard
Operator City:	Fullerton
Operator State:	California
Operator Zip:	92831
Operator Contact:	Danny Chung
Operator Contact Title:	Not reported
Operator Contact Phone:	714-888-8218

ITW HI-CONE DIV OF ILLINOIS TOOL WORKS (Continued) **S102806411**

Operator Contact Phone Ext:	Not reported
Operator Contact Email:	danny.chung@cj.net
Operator Type:	Private Business
Developer:	CJ Foods Manufacturing Co
Developer Address:	500 South State College Boulevard
Developer City:	Fullerton
Developer State:	California
Developer Zip:	92831
Developer Contact:	Danny Chung
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	N
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	N
Constype Below Ground Ind:	N
Constype Cable Line Ind:	N
Constype Comm Line Ind:	N
Constype Commertial Ind:	Y
Constype Electrical Line Ind:	N
Constype Gas Line Ind:	N
Constype Industrial Ind:	N
Constype Other Description:	Not reported
Constype Other Ind:	N
Constype Recons Ind:	N
Constype Residential Ind:	N
Constype Transport Ind:	N
Constype Utility Description:	Water Line, Gas Line
Constype Utility Ind:	Y
Constype Water Sewer Ind:	N
Dir Discharge Uswater Ind:	N
Receiving Water Name:	San Gabriel River/Coyote Creek
Certifier:	Danny Chung
Certifier Title:	Mr
Certification Date:	17-NOV-15
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported
NPDES Number:	CAS000002
Status:	Terminated
Agency Number:	0
Region:	8
Regulatory Measure ID:	466815
Order Number:	2009-0009-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	8 30C374753
Program Type:	Construction
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	12/02/2015
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	01/18/2017
Discharge Name:	CJ Foods Manufacturing Co
Discharge Address:	500 South State College Boulevard
Discharge City:	Fullerton
Discharge State:	California
Discharge Zip:	92831

ITW HI-CONE DIV OF ILLINOIS TOOL WORKS (Continued) **S102806411**

Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

ITW HI-CONE DIV OF ILLINOIS TOOL WORKS (Continued) **S102806411**

Facility Status:	Not reported
NPDES Number:	Not reported
Region:	Not reported
Agency Number:	Not reported
Regulatory Measure ID:	Not reported
Place ID:	Not reported
Order Number:	Not reported
WDID:	8 30C385906
Regulatory Measure Type:	Construction
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	Not reported
Discharge Name:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Status:	Active
Status Date:	02/04/2019
Operator Name:	CJ Foods Manufacturing Co
Operator Address:	500 South State College Boulevard
Operator City:	Fullerton
Operator State:	California
Operator Zip:	92831

Facility Status:	Not reported
NPDES Number:	Not reported
Region:	Not reported
Agency Number:	Not reported
Regulatory Measure ID:	Not reported
Place ID:	Not reported
Order Number:	Not reported
WDID:	8 30W003701
Regulatory Measure Type:	Construction
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	Not reported
Discharge Name:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Status:	Expired
Status Date:	08/30/2018
Operator Name:	CJ Foods Manufacturing Co
Operator Address:	500 South State College Boulevard
Operator City:	Fullerton
Operator State:	California
Operator Zip:	92831

Facility Status:	Active
NPDES Number:	CAS000002
Region:	8

ITW HI-CONE DIV OF ILLINOIS TOOL WORKS (Continued) **S102806411**

Agency Number:	0
Regulatory Measure ID:	505336
Place ID:	Not reported
Order Number:	2009-0009-DWQ
WDID:	8 30C385906
Regulatory Measure Type:	Enrollee
Program Type:	Construction
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	02/04/2019
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	500 South State College Boulevard
Discharge Name:	CJ Foods Manufacturing Co
Discharge City:	Fullerton
Discharge State:	California
Discharge Zip:	92831
Status:	Not reported
Status Date:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Facility Status:	Terminated
NPDES Number:	CAS000002
Region:	8
Agency Number:	0
Regulatory Measure ID:	466815
Place ID:	Not reported
Order Number:	2009-0009-DWQ
WDID:	8 30C374753
Regulatory Measure Type:	Enrollee
Program Type:	Construction
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	12/02/2015
Termination Date Of Regulatory Measure:	01/18/2017
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	500 South State College Boulevard
Discharge Name:	CJ Foods Manufacturing Co
Discharge City:	Fullerton
Discharge State:	California
Discharge Zip:	92831
Status:	Not reported
Status Date:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported

NPDES as of 03/2018:

NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported
Region:	8
Regulatory Measure ID:	466815
Order Number:	Not reported

ITW HI-CONE DIV OF ILLINOIS TOOL WORKS (Continued) **S102806411**

Regulatory Measure Type:	Construction
Place ID:	Not reported
WDID:	8 30C374753
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	01/18/2017
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Received Date:	11/17/2015
Processed Date:	12/02/2015
Status:	Terminated
Status Date:	02/09/2017
Place Size:	6.84
Place Size Unit:	Acres
Contact:	Danny Chung
Contact Title:	Not reported
Contact Phone:	714-888-8218
Contact Phone Ext:	Not reported
Contact Email:	danny.chung@cj.net
Operator Name:	CJ Foods Manufacturing Co
Operator Address:	500 South State College Boulevard
Operator City:	Fullerton
Operator State:	California
Operator Zip:	92831
Operator Contact:	Danny Chung
Operator Contact Title:	Not reported
Operator Contact Phone:	714-888-8218
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	danny.chung@cj.net
Operator Type:	Private Business
Developer:	CJ Foods Manufacturing Co
Developer Address:	500 South State College Boulevard
Developer City:	Fullerton
Developer State:	California
Developer Zip:	92831
Developer Contact:	Danny Chung
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	N
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	N
Constype Below Ground Ind:	N
Constype Cable Line Ind:	N
Constype Comm Line Ind:	N
Constype Commertial Ind:	Y
Constype Electrical Line Ind:	N
Constype Gas Line Ind:	N
Constype Industrial Ind:	N
Constype Other Description:	Not reported
Constype Other Ind:	N
Constype Recons Ind:	N
Constype Residential Ind:	N

ITW HI-CONE DIV OF ILLINOIS TOOL WORKS (Continued) **S102806411**

Constype Transport Ind:	N
Constype Utility Description:	Water Line, Gas Line
Constype Utility Ind:	Y
Constype Water Sewer Ind:	N
Dir Discharge Uswater Ind:	N
Receiving Water Name:	San Gabriel River/Coyote Creek
Certifier:	Danny Chung
Certifier Title:	Mr
Certification Date:	17-NOV-15
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported
NPDES Number:	CAS000002
Status:	Terminated
Agency Number:	0
Region:	8
Regulatory Measure ID:	466815
Order Number:	2009-0009-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	8 30C374753
Program Type:	Construction
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	12/02/2015
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	01/18/2017
Discharge Name:	CJ Foods Manufacturing Co
Discharge Address:	500 South State College Boulevard
Discharge City:	Fullerton
Discharge State:	California
Discharge Zip:	92831
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported

ITW HI-CONE DIV OF ILLINOIS TOOL WORKS (Continued) **S102806411**

Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

WDS:

Facility ID:	Santa Ana River 30I001428
Facility Type:	Industrial - Facility that treats and/or disposes of liquid or semisolid wastes from any servicing, producing, manufacturing or processing operation of whatever nature, including mining, gravel washing, geothermal operations, air conditioning, ship building and repairing, oil production, storage and disposal operations, water pumping.
Facility Status:	Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.
NPDES Number:	CAS000001 The 1st 2 characters designate the state. The remaining 7 are assigned by the Regional Board
Subregion:	8
Facility Telephone:	7148708661
Facility Contact:	BALDEMAR TORRES
Agency Name:	HI-CONE DIVISION OF ITW INC
Agency Address:	1140 W. BRYN MAWR AVE
Agency City,St,Zip:	ITASCA 60143
Agency Contact:	ART SLATERS
Agency Telephone:	7087739300
Agency Type:	Private
SIC Code:	0
SIC Code 2:	Not reported
Primary Waste Type:	Not reported

ITW HI-CONE DIV OF ILLINOIS TOOL WORKS (Continued) **S102806411**

Primary Waste: Not reported
Waste Type2: Not reported
Waste2: Not reported
Primary Waste Type: Not reported
Secondary Waste: Not reported
Secondary Waste Type: Not reported
Design Flow: 0
Baseline Flow: 0
Reclamation: Not reported
POTW: Not reported
Treat To Water: Minor Threat to Water Quality. A violation of a regional board order should cause a relatively minor impairment of beneficial uses compared to a major or minor threat. Not: All nurds without a TTWQ will be considered a minor threat to water quality unless coded at a higher Level. A Zero (0) may be used to code those NURDS that are found to represent no threat to water quality.
Complexity: Category C - Facilities having no waste treatment systems, such as cooling water dischargers or thosewho must comply through best management practices, facilities with passive waste treatment and disposal systems, such as septic systems with subsurface disposal, or dischargers having waste storage systems with land disposal such as dairy waste ponds.

CERS TANKS:
Site ID: 516957
CERS ID: 869914
Site Name: CJ FOODS MANUFACTURING CO
CERS Description: Construction Storm Water

Affiliation:
Affiliation Type Desc: Owner/Operator
Entity Name: CJ Foods Manufacturing Co
Entity Title: Operator
Affiliation Address: 500 South State College Boulevard
Affiliation City: Fullerton
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92831
Affiliation Phone: Not reported

AA166 **ECONO LUBE N TUNE** **CA LUST** **S100178904**
SE **101 S BRADFORD AVE** **CA Notify 65** **N/A**
1/2-1 **PLACENTIA, CA 92670**
0.735 mi.
3881 ft. **Site 1 of 2 in cluster AA**

Relative: Higher
Actual: 273 ft.

ORANGE CO. LUST:
Region: ORANGE
Facility Id: 89UT029
Released Substance: Gasoline-Automotive (motor gasoline and additives), leaded & unleaded
Date Closed: 02/08/1989
Record ID: RO0001516

NOTIFY 65:
Date Reported: Not reported
Staff Initials: Not reported

ECONO LUBE N TUNE (Continued) **S100178904**

Board File Number: Not reported
Facility Type: Not reported
Discharge Date: Not reported
Issue Date: Not reported
Incident Description: Not reported

AA167 **BRITE ARMOR PLATING** **CA ENVIROSTOR** **S110493688**
SE **1055 DRIEGA WAY, UNIT C** **N/A**
1/2-1 **PLACENTIA, CA 92820**
0.745 mi.
3932 ft. **Site 2 of 2 in cluster AA**

Relative:
Higher

Actual:
272 ft.

ENVIROSTOR:
Facility ID: 71003635
Status: Inactive - Needs Evaluation
Status Date: Not reported
Site Code: Not reported
Site Type: Tiered Permit
Site Type Detailed: Tiered Permit
Acres: Not reported
NPL: NO
Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: Not reported
Division Branch: Cleanup Cypress
Assembly: 55
Senate: 29
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 33.87223
Longitude: -117.8703
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: CAL000216744
Alias Type: EPA Identification Number
Alias Name: 71003635
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported

BRITE ARMOR PLATING (Continued) **S110493688**

Schedule Due Date: Not reported
Schedule Revised Date: Not reported

AB168
SSE
1/2-1
0.798 mi.
4214 ft.

MICRODOT DIV - KAYNAR TECH INC
190 W CROWTHER AVE
PLACENTIA, CA 92670

Site 1 of 2 in cluster AB

CA CPS-SLIC **S101854126**
CA EMI **N/A**
CA HWP
CA CERS

Relative:
Lower

Actual:
223 ft.

SLIC REG 8:

Type:	Soil
Facility Status:	Closed
Staff:	MGC
Substance:	PCE,SOLVENTS
Lead Agency:	Regional Board
Location Code:	PL-1
Thomas Bros Code:	Not reported

EMI:

Year:	1987
County Code:	30
Air Basin:	SC
Facility ID:	17885
Air District Name:	SC
SIC Code:	3444
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	8
Reactive Organic Gases Tons/Yr:	3
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	1990
County Code:	30
Air Basin:	SC
Facility ID:	62451
Air District Name:	SC
SIC Code:	3599
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	32
Reactive Organic Gases Tons/Yr:	4
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	1995
County Code:	30
Air Basin:	SC
Facility ID:	62451

MICRODOT DIV - KAYNAR TECH INC (Continued) **S101854126**

Air District Name:	SC
SIC Code:	3599
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	18
Reactive Organic Gases Tons/Yr:	5
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	1996
County Code:	30
Air Basin:	SC
Facility ID:	62451
Air District Name:	SC
SIC Code:	3599
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	4
Reactive Organic Gases Tons/Yr:	3
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

HWP:

EPA Id:	CAT080011000
Cleanup Status:	PROTECTIVE FILER
Latitude:	33.86717
Longitude:	-117.8722
Facility Type:	Historical - Non-Operating
Facility Size:	Not reported
Team:	Not reported
Supervisor:	Not reported
Site Code:	Not reported
Assembly District:	55
Senate District:	29
Public Information Officer:	Not reported
Public Information Officer:	Not reported

Activities:

EPA Id:	CAT080011000
Facility Type:	Historical - Non-Operating
Unit Names:	CONTAIN1
Event Description:	Protective Filer Status - PROTECTIVE FILER (RECEIVED)
Actual Date:	04/18/1988

EPA Id:	CAT080011000
Facility Type:	Historical - Non-Operating
Unit Names:	CONTAIN1
Event Description:	Protective Filer Status - PROTECTIVE FILER (APPROVED)
Actual Date:	11/14/1988

MICRODOT DIV - KAYNAR TECH INC (Continued) **S101854126**

CERS TANKS:

Site ID:	371326
CERS ID:	80001828
Site Name:	MICRODOT DIV OF KAYN
CERS Description:	Corrective Action

Affiliation:

Affiliation Type Desc:	Supervisor
Entity Name:	* Unknown
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

AB169
SSE
1/2-1
0.798 mi.
4214 ft.

MICRODOT DIV OF KAYNAR TECH INC
190 W CROWTHER AVE
PLACENTIA, CA 92670

CA ENVIROSTOR **S118757554**
CA CERS **N/A**

Site 2 of 2 in cluster AB

Relative:
Lower

Actual:
223 ft.

ENVIROSTOR:

Facility ID:	80001828
Status:	No Action Required
Status Date:	06/19/2013
Site Code:	Not reported
Site Type:	Corrective Action
Site Type Detailed:	Corrective Action
Acres:	0.25
NPL:	NO
Regulatory Agencies:	NONE SPECIFIED
Lead Agency:	NONE SPECIFIED
Program Manager:	Not reported
Supervisor:	* Unknown
Division Branch:	Cleanup Cypress
Assembly:	55
Senate:	29
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Not reported
Latitude:	33.86717
Longitude:	-117.8722
APN:	NONE SPECIFIED
Past Use:	NONE SPECIFIED
Potential COC:	NONE SPECIFIED
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	CAT080011000
Alias Type:	EPA Identification Number
Alias Name:	80001828
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	Not reported

MICRODOT DIV OF KAYNAR TECH INC (Continued) **S118757554**

Completed Sub Area Name:	Not reported
Completed Document Type:	Not reported
Completed Date:	Not reported
Comments:	Not reported
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

CERS TANKS:

Site ID:	236375
CERS ID:	CAT080011000
Site Name:	MICRODOT DIV OF KAYNAR TECH INC
CERS Description:	Hazardous Waste

Affiliation:

Affiliation Type Desc:	Facility Contact
Entity Name:	LARRY GARCIA-MAINTENANCE MGR
Entity Title:	Not reported
Affiliation Address:	INACTIVE PER VQ00 - BMI
Affiliation City:	PLACENTIA
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	928700000
Affiliation Phone:	7145245854
Affiliation Type Desc:	Facility Owner
Entity Name:	KAYNAR TECHNOLOGIES INC
Entity Title:	Not reported
Affiliation Address:	500 N STATE COLLEGE BLVD STE 1000
Affiliation City:	ORANGE
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	928680000
Affiliation Phone:	7147124900

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170 SW 1/2-1 0.850 mi. 4486 ft.

OMNI OPTICAL
360 S. ACACIA AVE
FULLERTON, CA 92831

CA ENVIROSTOR **S104889823**
CA LUST **N/A**
CA Orange Co. Industrial Site

Relative: Lower

Actual: 188 ft.

ENVIROSTOR:

Facility ID:	60001519
Status:	No Further Action
Status Date:	12/07/2012
Site Code:	401593
Site Type:	Evaluation
Site Type Detailed:	Evaluation
Acres:	2.5
NPL:	NO

OMNI OPTICAL (Continued) **S104889823**

Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Not reported
Supervisor: Eileen Mananian
Division Branch: Cleanup Cypress
Assembly: 72
Senate: 29
Special Program: EPA - PASI
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: EPA Grant
Latitude: 33.86758
Longitude: -117.8975
APN: NONE SPECIFIED
Past Use: MANUFACTURING - INDUSTRIAL MACHINERY, MANUFACTURING - OTHER
Potential COC: Tetrachloroethylene (PCE Trichloroethylene (TCE
Confirmed COC: Tetrachloroethylene (PCE Trichloroethylene (TCE
Potential Description: OTH, SOIL, SV
Alias Name: 401593
Alias Type: Project Code (Site Code)
Alias Name: 60001519
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: PA/SI Site Screening
Completed Date: 09/17/2012
Comments: USEPA final and signed

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

ORANGE CO. LUST:
Region: ORANGE
Facility Id: 86UT184
Released Substance: Diesel fuel oil and additives, Nos.1-D, 2-D, 2-4; Waste oil/Used oil; Gasoline-Automotive (motor gasoline and additives), leaded & unleaded
Date Closed: 07/13/1987
Record ID: RO0002806

Orange Co. Industrial Site:
Case ID: 88IC071
Record ID: RO0000154
Current Status: CLOSED 5/27/1988
Closure Type: Closed pre 1994, file review required to determine closure type
Released Chemical: DATA NOT ENTERED, SEE FILE

171 South 1/2-1 0.851 mi. 4492 ft.

ALCOA GLOBAL FASTENERS, INC.
800 S STATE COLLEGE BLVD
FULLERTON, CA 92634

CA ENVIROSTOR
CA HIST UST
CA Orange Co. Industrial Site
CA EMI
CA WDS

1000307386
N/A

Relative: Lower

Actual: 194 ft.

ENVIROSTOR:

Facility ID:	71002175
Status:	Refer: Other Agency
Status Date:	04/19/1999
Site Code:	Not reported
Site Type:	Tiered Permit
Site Type Detailed:	Tiered Permit
Acres:	Not reported
NPL:	NO
Regulatory Agencies:	NONE SPECIFIED
Lead Agency:	NONE SPECIFIED
Program Manager:	Not reported
Supervisor:	Not reported
Division Branch:	Cleanup Cypress
Assembly:	65
Senate:	29
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Not reported
Latitude:	33.86417
Longitude:	-117.8880
APN:	NONE SPECIFIED
Past Use:	NONE SPECIFIED
Potential COC:	NONE SPECIFIED
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	CAD008289183
Alias Type:	EPA Identification Number
Alias Name:	71002175
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Inspections/Visit (Non LUR)
Completed Date:	04/19/1999
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Phase 1
Completed Date:	05/24/2006
Comments:	Not reported
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

ALCOA GLOBAL FASTENERS, INC. (Continued) **1000307386**

HIST UST:

File Number:	0002EB4A
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002EB4A.pdf
Region:	STATE
Facility ID:	00000014481
Facility Type:	Other
Other Type:	MANUFACTURING
Contact Name:	WILLIAM MYERS
Telephone:	7148711550
Owner Name:	MICRODOT INC.
Owner Address:	TWO FIRST NATIONAL PLAZA, 18TH
Owner City,St,Zip:	CHICAGO, IL 60603
Total Tanks:	0002
Tank Num:	001
Container Num:	1
Year Installed:	1978
Tank Capacity:	00010000
Tank Used for:	PRODUCT
Type of Fuel:	DIESEL
Container Construction Thickness:	Not reported
Leak Detection:	None
Tank Num:	002
Container Num:	2
Year Installed:	1962
Tank Capacity:	00020000
Tank Used for:	WASTE
Type of Fuel:	WASTE OIL
Container Construction Thickness:	10
Leak Detection:	None

Click here for Geo Tracker PDF:

Orange Co. Industrial Site:

Case ID:	97IC009
Record ID:	RO0000636
Current Status:	CLOSED 6/13/2005
Closure Type:	Voluntary Cleanup Program Termination
Released Chemical:	PERCHLOROETHYLENE

EMI:

Year:	1987
County Code:	30
Air Basin:	SC
Facility ID:	3949
Air District Name:	SC
SIC Code:	3599
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	136
Reactive Organic Gases Tons/Yr:	37
Carbon Monoxide Emissions Tons/Yr:	1
NOX - Oxides of Nitrogen Tons/Yr:	2
SOX - Oxides of Sulphur Tons/Yr:	0

ALCOA GLOBAL FASTENERS, INC. (Continued) **1000307386**

Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	1990
County Code:	30
Air Basin:	SC
Facility ID:	3949
Air District Name:	SC
SIC Code:	3599
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	178
Reactive Organic Gases Tons/Yr:	12
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	2
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	1996
County Code:	30
Air Basin:	SC
Facility ID:	100123
Air District Name:	SC
SIC Code:	3452
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	56
Reactive Organic Gases Tons/Yr:	18
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	2
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	1997
County Code:	30
Air Basin:	SC
Facility ID:	100123
Air District Name:	SC
SIC Code:	3452
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	60
Reactive Organic Gases Tons/Yr:	22
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	2
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	1998
County Code:	30
Air Basin:	SC

ALCOA GLOBAL FASTENERS, INC. (Continued) **1000307386**

Facility ID:	100123
Air District Name:	SC
SIC Code:	3452
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	60
Reactive Organic Gases Tons/Yr:	22
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	2
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	1999
County Code:	30
Air Basin:	SC
Facility ID:	100123
Air District Name:	SC
SIC Code:	3452
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	60
Reactive Organic Gases Tons/Yr:	22
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	2
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2000
County Code:	30
Air Basin:	SC
Facility ID:	100123
Air District Name:	SC
SIC Code:	3452
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	60
Reactive Organic Gases Tons/Yr:	22
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	2
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2001
County Code:	30
Air Basin:	SC
Facility ID:	124812
Air District Name:	SC
SIC Code:	3452
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Y
Consolidated Emission Reporting Rule:	Not reported

ALCOA GLOBAL FASTENERS, INC. (Continued) **1000307386**

Total Organic Hydrocarbon Gases Tons/Yr:	24
Reactive Organic Gases Tons/Yr:	17
Carbon Monoxide Emissions Tons/Yr:	1
NOX - Oxides of Nitrogen Tons/Yr:	2
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2002
County Code:	30
Air Basin:	SC
Facility ID:	134931
Air District Name:	SC
SIC Code:	3452
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	12
Reactive Organic Gases Tons/Yr:	11
Carbon Monoxide Emissions Tons/Yr:	1
NOX - Oxides of Nitrogen Tons/Yr:	2
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2003
County Code:	30
Air Basin:	SC
Facility ID:	134931
Air District Name:	SC
SIC Code:	3452
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	12
Reactive Organic Gases Tons/Yr:	11
Carbon Monoxide Emissions Tons/Yr:	1
NOX - Oxides of Nitrogen Tons/Yr:	2
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2004
County Code:	30
Air Basin:	SC
Facility ID:	134931
Air District Name:	SC
SIC Code:	3452
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	11.66
Reactive Organic Gases Tons/Yr:	11.33
Carbon Monoxide Emissions Tons/Yr:	0.587
NOX - Oxides of Nitrogen Tons/Yr:	2.173
SOX - Oxides of Sulphur Tons/Yr:	0.01389
Particulate Matter Tons/Yr:	0.16472584

ALCOA GLOBAL FASTENERS, INC. (Continued) **1000307386**

Part. Matter 10 Micrometers and Smllr Tons/Yr:0.12

Year:	2005
County Code:	30
Air Basin:	SC
Facility ID:	134931
Air District Name:	SC
SIC Code:	3452
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	4.04393
Reactive Organic Gases Tons/Yr:	1.762650506
Carbon Monoxide Emissions Tons/Yr:	.714
NOX - Oxides of Nitrogen Tons/Yr:	2.651
SOX - Oxides of Sulphur Tons/Yr:	.01223
Particulate Matter Tons/Yr:	.79369
Part. Matter 10 Micrometers and Smllr Tons/Yr:	.7035311

Year:	2006
County Code:	30
Air Basin:	SC
Facility ID:	134931
Air District Name:	SC
SIC Code:	3452
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	6.619719378358144375
Reactive Organic Gases Tons/Yr:	2.747
Carbon Monoxide Emissions Tons/Yr:	.731
NOX - Oxides of Nitrogen Tons/Yr:	2.844
SOX - Oxides of Sulphur Tons/Yr:	.02
Particulate Matter Tons/Yr:	.894
Part. Matter 10 Micrometers and Smllr Tons/Yr:	.79239

Year:	2007
County Code:	30
Air Basin:	SC
Facility ID:	134931
Air District Name:	SC
SIC Code:	3452
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	6.619719378358144375
Reactive Organic Gases Tons/Yr:	2.747
Carbon Monoxide Emissions Tons/Yr:	.731
NOX - Oxides of Nitrogen Tons/Yr:	2.844
SOX - Oxides of Sulphur Tons/Yr:	.02
Particulate Matter Tons/Yr:	.894
Part. Matter 10 Micrometers and Smllr Tons/Yr:	.79239

Year:	2008
County Code:	30
Air Basin:	SC
Facility ID:	134931

ALCOA GLOBAL FASTENERS, INC. (Continued) **1000307386**

Air District Name:	SC
SIC Code:	3429
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	7.214564198385980727
Reactive Organic Gases Tons/Yr:	3.34427351321855486
Carbon Monoxide Emissions Tons/Yr:	.39
NOX - Oxides of Nitrogen Tons/Yr:	1.54
SOX - Oxides of Sulphur Tons/Yr:	.010966
Particulate Matter Tons/Yr:	.0861579
Part. Matter 10 Micrometers and Smllr Tons/Yr:	.084135756

Year:	2009
County Code:	30
Air Basin:	SC
Facility ID:	134931
Air District Name:	SC
SIC Code:	3429
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1.1052398720829899
Reactive Organic Gases Tons/Yr:	0.82052133199999999
Carbon Monoxide Emissions Tons/Yr:	0.56000000000000005
NOX - Oxides of Nitrogen Tons/Yr:	2.1000000000000001
SOX - Oxides of Sulphur Tons/Yr:	9.7699999999999992E-3
Particulate Matter Tons/Yr:	0.11687400000000001
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0.11491066

Year:	2012
County Code:	30
Air Basin:	SC
Facility ID:	134931
Air District Name:	SC
SIC Code:	3452
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.91808226519
Reactive Organic Gases Tons/Yr:	0.65344987
Carbon Monoxide Emissions Tons/Yr:	0.52671
NOX - Oxides of Nitrogen Tons/Yr:	1.9591
SOX - Oxides of Sulphur Tons/Yr:	0.00897641
Particulate Matter Tons/Yr:	1.22751
Part. Matter 10 Micrometers and Smllr Tons/Yr:	1.07127002

Year:	2013
County Code:	30
Air Basin:	SC
Facility ID:	134931
Air District Name:	SC
SIC Code:	3452
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1.0675323533

ALCOA GLOBAL FASTENERS, INC. (Continued) **1000307386**

Reactive Organic Gases Tons/Yr:	0.76249
Carbon Monoxide Emissions Tons/Yr:	0.48963
NOX - Oxides of Nitrogen Tons/Yr:	1.82159
SOX - Oxides of Sulphur Tons/Yr:	0.00833683
Particulate Matter Tons/Yr:	1.21959
Part. Matter 10 Micrometers and Smllr Tons/Yr:	1.03743878

Year:	2014
County Code:	30
Air Basin:	SC
Facility ID:	134931
Air District Name:	SC
SIC Code:	3452
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	2.084172658
Reactive Organic Gases Tons/Yr:	1.72421
Carbon Monoxide Emissions Tons/Yr:	0.629
NOX - Oxides of Nitrogen Tons/Yr:	1.71403
SOX - Oxides of Sulphur Tons/Yr:	0.008165
Particulate Matter Tons/Yr:	1.34667
Part. Matter 10 Micrometers and Smllr Tons/Yr:	1.14520852

Year:	2015
County Code:	30
Air Basin:	SC
Facility ID:	134931
Air District Name:	SC
SIC Code:	3452
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	12.776483984
Reactive Organic Gases Tons/Yr:	12.439611168
Carbon Monoxide Emissions Tons/Yr:	0.6522465
NOX - Oxides of Nitrogen Tons/Yr:	1.8080685
SOX - Oxides of Sulphur Tons/Yr:	0.00848295
Particulate Matter Tons/Yr:	1.991383502
Part. Matter 10 Micrometers and Smllr Tons/Yr:	1.7399197364

WDS:

Facility ID:	Santa Ana River 30I017685
Facility Type:	Industrial - Facility that treats and/or disposes of liquid or semisolid wastes from any servicing, producing, manufacturing or processing operation of whatever nature, including mining, gravel washing, geothermal operations, air conditioning, ship building and repairing, oil production, storage and disposal operations, water pumping.
Facility Status:	Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.
NPDES Number:	CAS000001 The 1st 2 characters designate the state. The remaining 7 are assigned by the Regional Board
Subregion:	8
Facility Telephone:	7144494380
Facility Contact:	PATRICK LUU
Agency Name:	ALCOA GLOBAL FASTENERS INC FUL

ALCOA GLOBAL FASTENERS, INC. (Continued) **1000307386**

Agency Address:	800 S STATE COLLEGE BLVD
Agency City,St,Zip:	FULLERTON 92831
Agency Contact:	PATRICK LUU
Agency Telephone:	7144494380
Agency Type:	Private
SIC Code:	0
SIC Code 2:	Not reported
Primary Waste Type:	Not reported
Primary Waste:	Not reported
Waste Type2:	Not reported
Waste2:	Not reported
Primary Waste Type:	Not reported
Secondary Waste:	Not reported
Secondary Waste Type:	Not reported
Design Flow:	0
Baseline Flow:	0
Reclamation:	Not reported
POTW:	Not reported
Treat To Water:	Minor Threat to Water Quality. A violation of a regional board order should cause a relatively minor impairment of beneficial uses compared to a major or minor threat. Not: All nurds without a TTWQ will be considered a minor threat to water quality unless coded at a higher Level. A Zero (0) may be used to code those NURDS that are found to represent no threat to water quality.
Complexity:	Category C - Facilities having no waste treatment systems, such as cooling water dischargers or thosewho must comply through best management practices, facilities with passive waste treatment and disposal systems, such as septic systems with subsurface disposal, or dischargers having waste storage systems with land disposal such as dairy waste ponds.

172
SSE
1/2-1
0.913 mi.
4819 ft.

HI TECH SOLDER
700 MONROE WAY
PLACENTIA, CA 92870

CA ENVIROSTOR **1008388697**
CA CERS HAZ WASTE **N/A**
FINDS
ECHO
CA CERS

Relative:
Lower

Actual:
207 ft.

ENVIROSTOR:

Facility ID:	71003823
Status:	Inactive - Needs Evaluation
Status Date:	Not reported
Site Code:	Not reported
Site Type:	Tiered Permit
Site Type Detailed:	Tiered Permit
Acres:	Not reported
NPL:	NO
Regulatory Agencies:	NONE SPECIFIED
Lead Agency:	NONE SPECIFIED
Program Manager:	Not reported
Supervisor:	Not reported
Division Branch:	Cleanup Cypress
Assembly:	55
Senate:	29
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Not reported
Latitude:	33.86352

HI TECH SOLDER (Continued) **1008388697**

Longitude: -117.8766
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: CAR000163709
Alias Type: EPA Identification Number
Alias Name: 110022527728
Alias Type: EPA (FRS #)
Alias Name: 71003823
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

CERS HAZ WASTE:
Site ID: 437734
CERS ID: 10523974
CERS Description: Hazardous Waste Generator

Violations:
Site ID: 437734
Site Name: HI TECH SOLDER
Violation Date: 05-01-2018
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to establish and electronically submit an adequate emergency response plan and procedures for a release or threatened release of a hazardous material.
Violation Notes: Returned to compliance on 10/01/2018. Facility was previously notified of the requirement to comply with the electronic reporting requirements and has not completed an electronic submittal to date. Submit documents electronically within 30 days.
Violation Division: Orange County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 437734
Site Name: HI TECH SOLDER
Violation Date: 05-01-2018
Citation: HSC 6.95 25508.2 - California Health and Safety Code, Chapter 6.95, Section(s) 25508.2
Violation Description: Failure to annually review and electronically certify that the

HI TECH SOLDER (Continued) **1008388697**

business plan is complete and accurate on or before the annual due date.

Violation Notes: Returned to compliance on 09/11/2018. Facility was previously notified of the requirement to comply with the electronic reporting requirements and has not completed an electronic submittal to date. Submit documents electronically within 30 days.
Violation Division: Orange County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 437734
Site Name: HI TECH SOLDER
Violation Date: 08-27-2018
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit the Business Activities Page and/or Business Owner Operator Identification Page.
Violation Notes: Returned to compliance on 09/11/2018.
Violation Division: Orange County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 437734
Site Name: HI TECH SOLDER
Violation Date: 08-07-2017
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes: Returned to compliance on 05/30/2018.
Violation Division: Orange County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 437734
Site Name: HI TECH SOLDER
Violation Date: 08-27-2018
Citation: HSC 6.95 25507 - California Health and Safety Code, Chapter 6.95, Section(s) 25507
Violation Description: Failure to adequately establish and implement a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes: Returned to compliance on 09/11/2018.
Violation Division: Orange County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 437734
Site Name: HI TECH SOLDER
Violation Date: 08-27-2018
Citation: HSC 6.95 25505(a)(4) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a)(4)
Violation Description: Failure to provide initial and annual training to all employees in safety procedures in the event of a release or threatened release of a hazardous material or failure to document and maintain training records for a minimum of three years.

HI TECH SOLDER (Continued) **1008388697**

Violation Notes: Returned to compliance on 09/11/2018.
Violation Division: Orange County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 437734
Site Name: HI TECH SOLDER
Violation Date: 08-27-2018
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes: Returned to compliance on 09/11/2018.
Violation Division: Orange County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 437734
Site Name: HI TECH SOLDER
Violation Date: 05-01-2018
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to establish and electronically submit an adequate training program in safety procedures in the event of a release or threatened release of a hazardous material.
Violation Notes: Returned to compliance on 10/01/2018. Facility was previously notified of the requirement to comply with the electronic reporting requirements and has not completed an electronic submittal to date. Submit documents electronically within 30 days.
Violation Division: Orange County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 437734
Site Name: HI TECH SOLDER
Violation Date: 08-07-2017
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes: Returned to compliance on 05/30/2018.
Violation Division: Orange County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 437734
Site Name: HI TECH SOLDER
Violation Date: 05-01-2018
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes: Returned to compliance on 10/01/2018. Facility was previously notified of the requirement to comply with the electronic reporting

HI TECH SOLDER (Continued) **1008388697**

requirements and has not completed an electronic submittal to date. Submit documents electronically within 30 days.
Violation Division: Orange County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 437734
Site Name: HI TECH SOLDER
Violation Date: 08-27-2018
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes: Returned to compliance on 09/11/2018.
Violation Division: Orange County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 437734
Site Name: HI TECH SOLDER
Violation Date: 04-13-2016
Citation: 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description: Failure to properly label hazardous waste accumulation containers with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes: Returned to compliance on 04/13/2016. Hazardous waste container was not labeled. A label was placed on the container at the inspection. This violation is abated and no further action is required.
Violation Division: Orange County Environmental Health
Violation Program: HW
Violation Source: CERS

Site ID: 437734
Site Name: HI TECH SOLDER
Violation Date: 08-27-2018
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit a site map with all required content.
Violation Notes: Returned to compliance on 09/11/2018.
Violation Division: Orange County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 437734
Site Name: HI TECH SOLDER
Violation Date: 05-01-2018
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit the Business Activities Page and/or Business Owner Operator Identification Page.
Violation Notes: Returned to compliance on 10/01/2018. Facility was previously notified of the requirement to comply with the electronic reporting requirements and has not completed an electronic submittal to date.

HI TECH SOLDER (Continued) **1008388697**

	Submit documents electronically within 30 days.
Violation Division:	Orange County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	437734
Site Name:	HI TECH SOLDER
Violation Date:	05-01-2018
Citation:	HSC 6.95 25505(a)(4) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a)(4)
Violation Description:	Failure to provide initial and annual training to all employees in safety procedures in the event of a release or threatened release of a hazardous material or failure to document and maintain training records for a minimum of three years.
Violation Notes:	Returned to compliance on 10/01/2018. Conduct the required training and send a copy of the sign-in sheet to this agency.
Violation Division:	Orange County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	437734
Site Name:	HI TECH SOLDER
Violation Date:	05-01-2018
Citation:	HSC 6.95 25507 - California Health and Safety Code, Chapter 6.95, Section(s) 25507
Violation Description:	Failure to adequately establish and implement a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes:	Returned to compliance on 10/01/2018. Facility was previously notified of the requirement to comply with the electronic reporting requirements and has not completed an electronic submittal to date. Submit documents electronically within 30 days.
Violation Division:	Orange County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	437734
Site Name:	HI TECH SOLDER
Violation Date:	05-01-2018
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes:	Returned to compliance on 10/01/2018. Facility was previously notified of the requirement to comply with the electronic reporting requirements and has not completed an electronic submittal to date. Submit documents electronically within 30 days.
Violation Division:	Orange County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	437734
Site Name:	HI TECH SOLDER
Violation Date:	05-01-2018
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)

HI TECH SOLDER (Continued) **1008388697**

Violation Description: Failure to complete and electronically submit a site map with all required content.
Violation Notes: Returned to compliance on 10/01/2018. Facility was previously notified of the requirement to comply with the electronic reporting requirements and has not completed an electronic submittal to date. Submit documents electronically within 30 days.
Violation Division: Orange County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 437734
Site Name: HI TECH SOLDER
Violation Date: 08-27-2018
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to establish and electronically submit an adequate training program in safety procedures in the event of a release or threatened release of a hazardous material.
Violation Notes: Returned to compliance on 09/11/2018.
Violation Division: Orange County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 437734
Site Name: HI TECH SOLDER
Violation Date: 08-27-2018
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to establish and electronically submit an adequate emergency response plan and procedures for a release or threatened release of a hazardous material.
Violation Notes: Returned to compliance on 09/11/2018.
Violation Division: Orange County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-13-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: On site for routine tiered permitting inspection for the conditionally exempt tier. The inspection and document review were conducted with Jose Salas. James Hendron (OCHCA) was also present for the inspection. Facility generates waste water and filter cake that is hazardous for copper. The facility conducts treatment of the waste water which is disposed of to the sewer under permit. Facility sends approximately 50 gallons of hazardous waste (spent etch bath) per month to the treatment system. The filter cake is processed approximately once per year and hauled as a hazardous waste. The following documents are available for review: inspection log, and treatment log. The written operating instructions were not available. Please send a copy of these instructions to this Agency.
Eval Division: Orange County Environmental Health
Eval Program: CE
Eval Source: CERS

HI TECH SOLDER (Continued) **1008388697**

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-13-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: On site for a routine hazardous waste inspection. Inspection was conducted with Jose Salas who gave permission to conduct the inspection. James Hendron (OCHCA) was also present at the inspection. Facility generates filter cake containing copper and waste tin and lead. The tin and lead are sent for recycling by Salvage One. Hazardous waste container was not labeled (see violation). A label was placed on the container at the inspection. This violation is abated and no further action is required. Facility sends the spent etchant through the treatment system. The sludge from the system is processed approximately once per year and the waste hauled at that time. Manifests were available for review. Facility is assigned and using EPA ID# CAR000163709. Facility?s number is inactive per DTSC website. Discussed this with the operator. Mr. Salas states that they recently sent information to reactivate their number. Please note, facility?s hazardous waste hauler has [Truncated]
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-13-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Hi Tech On site to conduct an initial Hazardous Materials and Business Emergency Plan inspection. Inspection was conducted with Jose Salas. James Hendron (OCHCA) was also on site for the inspection. Observed the facility and inspected hazardous materials storage. The following hazardous materials were observed in amounts that exceed the required disclosure quantities: -Superflux +, drum -waste water treatment tanks -etch, process tanks REQUIREMENT FOR ELECTRONIC SUBMITTAL OF HMBEP DOCUMENTS: This report serves as notice that the facility must submit the following documents electronically within 30 days to the CERS database: -Business Emergency Plan -Hazardous Materials Chemical Inventory -Site Map The facility is responsible for identifying all hazardous materials, to include hazardous wastes, which are above the disclosure thresholds. If there is a change in the type or amount of chemicals that are maintained on site, please submit revised documents [Truncated]
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 04-13-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Orange County Environmental Health
Eval Program: CE
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 04-13-2016

HI TECH SOLDER (Continued) **1008388697**

Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Not reported
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	05-01-2018
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	05-01-2018
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	On site for routine tiered permitting inspection for the conditionally exempt tier. Inspection was conducted with owner Hector Salas. Facility generates waste water and filter cake that is hazardous for copper. The facility conducts treatment of the waste water which is disposed of to the sewer under permit. Facility sends approximately 50 gallons of hazardous waste (spent etch bath) per month to the treatment system. The filter cake is processed approximately once per year and hauled as a hazardous waste. The following documents are available for review: sanitation discharge permit, inspection log, operating instructions and treatment log. Secondary containment structures were observed to be dry.
Eval Division:	Orange County Environmental Health
Eval Program:	CE
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	06-28-2018
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Request for NOV to be sent to facility forwarded to enforcement group.
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	08-29-2018
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	On site to assist with CERS submittal.
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	05-01-2018
Violations Found:	Yes
Eval Type:	Routine done by local agency

HI TECH SOLDER (Continued) **1008388697**

Eval Notes: The following hazardous materials were observed in amounts that exceed the required disclosure quantities: -Superflux +, drum -waste water treatment tanks -etch, process tanks Facility was previously notified of the requirement to comply with the electronic reporting requirements and has not completed an electronic submittal to date. REQUIREMENT FOR ELECTRONIC SUBMITTAL OF HMBEP DOCUMENTS: This report serves as notice that the facility must submit the following documents electronically within 30 days to the CERS database: -Business Emergency Plan -Hazardous Materials Chemical Inventory -Site Map The facility is responsible for identifying all hazardous materials, to include hazardous wastes, which are above the disclosure thresholds. If there is a change in the type or amount of chemicals that are maintained on site, please submit revised documents (electronically) within 30 days of the change. The California Electronic Reporting System (CERS) can be [Truncated]
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 07-19-2018
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: NOV: NOV CERTIFIED MAIL RECEIPT RECEIVED SIGNED 7.13.18
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 08-07-2017
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: During a routine hazardous materials inspection of your facility conducted on 4/13/2016, it was noted that you store hazardous materials on site above reporting threshold limits. Your facility was directed to submit reporting data electronically to the California Electronic Reporting System (CERS). To date, there has been no electronic submitted made and violation I169 and I292 are being cited for failure to comply with electronic reporting requirements. Please submit completed, accurate information to CERS within 30 days. The California Electronic Reporting System (CERS) can be located at https://cersbusiness.calepa.ca.gov The completed site map will need to contain all of the following information: Site orientation, loading areas, internal roads, adjacent streets, storm drains and sewers, access and exit points, emergency shut-offs (natural gas, water and electrical), evacuation staging areas, hazardous material storage areas, and emergency response [Truncated]
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 08-27-2018
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: On site for a follow up inspection following non-compliance with Notice of Violation issued on July 10, 2018. Inspection was conducted

HI TECH SOLDER (Continued) **1008388697**

with Jose Luis Salas. Violations noted remain outstanding. Violations I292, I169, I736, I239, I632, I208, I368, I463 and I551 for failure to comply with hazardous materials electronic reporting requirements remain outstanding. Reasonable notice has been given to the business and attempts have been made to assist the business with compliance. Violations are being elevated to Class 1 violations which require formal enforcement actions by this Agency.

Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	09-10-2018
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	On site to assist with CERS submittal.
Eval Division:	Orange County Environmental Health
Eval Program:	CE
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	08-28-2018
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Inspection report forwarded for enforcement.
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS

Enforcement Action:

Site ID:	437734
Site Name:	HI TECH SOLDER
Site Address:	700 MONROE WAY
Site City:	PLACENTIA
Site Zip:	92870
Enf Action Date:	07-10-2018
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	Orange County Environmental Health
Enf Action Program:	HMRRP
Enf Action Source:	CERS

Coordinates:

Site ID:	437734
Facility Name:	HI TECH SOLDER
Env Int Type Code:	HMBP
Program ID:	10523974
Coord Name:	Not reported
Ref Point Type Desc:	Center of a facility or station.
Latitude:	33.863330
Longitude:	-117.876620

Affiliation:

Affiliation Type Desc:	Environmental Contact
Entity Name:	Hector Salas

HI TECH SOLDER (Continued) **1008388697**

Entity Title:	Not reported
Affiliation Address:	700 MONROE WAY
Affiliation City:	PLACENTIA
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92870
Affiliation Phone:	Not reported

Affiliation Type Desc:	Parent Corporation
Entity Name:	HI TECH SOLDER
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Document Preparer
Entity Name:	Hector Salas
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	700 Monroe Way
Affiliation City:	Placentia
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92870
Affiliation Phone:	Not reported

Affiliation Type Desc:	Legal Owner
Entity Name:	Hector Salas
Entity Title:	Not reported
Affiliation Address:	700 MONROE WAY
Affiliation City:	PLACENTIA
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92870
Affiliation Phone:	(714) 572-1200

Affiliation Type Desc:	Onsite Treatment Unit Owner Operator
Entity Name:	Hector Salas
Entity Title:	owner
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

HI TECH SOLDER (Continued) **1008388697**

Affiliation Type Desc:	Operator
Entity Name:	Hector Salas
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(714) 572-1200

Affiliation Type Desc:	CUPA District
Entity Name:	Orange County Env Health
Entity Title:	Not reported
Affiliation Address:	1241 East Dyer RoadSuite 120
Affiliation City:	Santa Ana
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92705-5611
Affiliation Phone:	(714) 433-6000

Affiliation Type Desc:	Identification Signer
Entity Name:	Hector Salas
Entity Title:	owner
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Property Owner
Entity Name:	jonathan Huling
Entity Title:	Not reported
Affiliation Address:	2324 N. Batavia ST.
Affiliation City:	Orange
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92865
Affiliation Phone:	(714) 998-1300

Site ID:	437734
CERS ID:	10523974
CERS Description:	Hazardous Waste Onsite Treatment

Violations:

Site ID:	437734
Site Name:	HI TECH SOLDER
Violation Date:	05-01-2018
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to establish and electronically submit an adequate emergency response plan and procedures for a release or threatened release of a hazardous material.
Violation Notes:	Returned to compliance on 10/01/2018. Facility was previously notified of the requirement to comply with the electronic reporting requirements and has not completed an electronic submittal to date. Submit documents electronically within 30 days.

HI TECH SOLDER (Continued) **1008388697**

Violation Division:	Orange County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	437734
Site Name:	HI TECH SOLDER
Violation Date:	05-01-2018
Citation:	HSC 6.95 25508.2 - California Health and Safety Code, Chapter 6.95, Section(s) 25508.2
Violation Description:	Failure to annually review and electronically certify that the business plan is complete and accurate on or before the annual due date.
Violation Notes:	Returned to compliance on 09/11/2018. Facility was previously notified of the requirement to comply with the electronic reporting requirements and has not completed an electronic submittal to date. Submit documents electronically within 30 days.
Violation Division:	Orange County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	437734
Site Name:	HI TECH SOLDER
Violation Date:	08-27-2018
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit the Business Activities Page and/or Business Owner Operator Identification Page.
Violation Notes:	Returned to compliance on 09/11/2018.
Violation Division:	Orange County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	437734
Site Name:	HI TECH SOLDER
Violation Date:	08-07-2017
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes:	Returned to compliance on 05/30/2018.
Violation Division:	Orange County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	437734
Site Name:	HI TECH SOLDER
Violation Date:	08-27-2018
Citation:	HSC 6.95 25507 - California Health and Safety Code, Chapter 6.95, Section(s) 25507
Violation Description:	Failure to adequately establish and implement a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes:	Returned to compliance on 09/11/2018.
Violation Division:	Orange County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS

HI TECH SOLDER (Continued) **1008388697**

Site ID:	437734
Site Name:	HI TECH SOLDER
Violation Date:	08-27-2018
Citation:	HSC 6.95 25505(a)(4) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a)(4)
Violation Description:	Failure to provide initial and annual training to all employees in safety procedures in the event of a release or threatened release of a hazardous material or failure to document and maintain training records for a minimum of three years.
Violation Notes:	Returned to compliance on 09/11/2018.
Violation Division:	Orange County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS

Site ID:	437734
Site Name:	HI TECH SOLDER
Violation Date:	08-27-2018
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes:	Returned to compliance on 09/11/2018.
Violation Division:	Orange County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS

Site ID:	437734
Site Name:	HI TECH SOLDER
Violation Date:	05-01-2018
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to establish and electronically submit an adequate training program in safety procedures in the event of a release or threatened release of a hazardous material.
Violation Notes:	Returned to compliance on 10/01/2018. Facility was previously notified of the requirement to comply with the electronic reporting requirements and has not completed an electronic submittal to date. Submit documents electronically within 30 days.
Violation Division:	Orange County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS

Site ID:	437734
Site Name:	HI TECH SOLDER
Violation Date:	08-07-2017
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes:	Returned to compliance on 05/30/2018.
Violation Division:	Orange County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS

Site ID:	437734

HI TECH SOLDER (Continued) **1008388697**

Site Name:	HI TECH SOLDER
Violation Date:	05-01-2018
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes:	Returned to compliance on 10/01/2018. Facility was previously notified of the requirement to comply with the electronic reporting requirements and has not completed an electronic submittal to date. Submit documents electronically within 30 days.
Violation Division:	Orange County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS

Site ID:	437734
Site Name:	HI TECH SOLDER
Violation Date:	08-27-2018
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes:	Returned to compliance on 09/11/2018.
Violation Division:	Orange County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS

Site ID:	437734
Site Name:	HI TECH SOLDER
Violation Date:	04-13-2016
Citation:	22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description:	Failure to properly label hazardous waste accumulation containers with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes:	Returned to compliance on 04/13/2016. Hazardous waste container was not labeled. A label was placed on the container at the inspection. This violation is abated and no further action is required.
Violation Division:	Orange County Environmental Health
Violation Program:	HW
Violation Source:	CERS

Site ID:	437734
Site Name:	HI TECH SOLDER
Violation Date:	08-27-2018
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit a site map with all required content.
Violation Notes:	Returned to compliance on 09/11/2018.
Violation Division:	Orange County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS

Site ID:	437734

HI TECH SOLDER (Continued) **1008388697**

Site Name:	HI TECH SOLDER
Violation Date:	05-01-2018
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit the Business Activities Page and/or Business Owner Operator Identification Page.
Violation Notes:	Returned to compliance on 10/01/2018. Facility was previously notified of the requirement to comply with the electronic reporting requirements and has not completed an electronic submittal to date. Submit documents electronically within 30 days.
Violation Division:	Orange County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS

Site ID:	437734
Site Name:	HI TECH SOLDER
Violation Date:	05-01-2018
Citation:	HSC 6.95 25505(a)(4) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a)(4)
Violation Description:	Failure to provide initial and annual training to all employees in safety procedures in the event of a release or threatened release of a hazardous material or failure to document and maintain training records for a minimum of three years.
Violation Notes:	Returned to compliance on 10/01/2018. Conduct the required training and send a copy of the sign-in sheet to this agency.
Violation Division:	Orange County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS

Site ID:	437734
Site Name:	HI TECH SOLDER
Violation Date:	05-01-2018
Citation:	HSC 6.95 25507 - California Health and Safety Code, Chapter 6.95, Section(s) 25507
Violation Description:	Failure to adequately establish and implement a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes:	Returned to compliance on 10/01/2018. Facility was previously notified of the requirement to comply with the electronic reporting requirements and has not completed an electronic submittal to date. Submit documents electronically within 30 days.
Violation Division:	Orange County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS

Site ID:	437734
Site Name:	HI TECH SOLDER
Violation Date:	05-01-2018
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes:	Returned to compliance on 10/01/2018. Facility was previously notified of the requirement to comply with the electronic reporting requirements and has not completed an electronic submittal to date. Submit documents electronically within 30 days.

HI TECH SOLDER (Continued) **1008388697**

Violation Division:	Orange County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	437734
Site Name:	HI TECH SOLDER
Violation Date:	05-01-2018
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit a site map with all required content.
Violation Notes:	Returned to compliance on 10/01/2018. Facility was previously notified of the requirement to comply with the electronic reporting requirements and has not completed an electronic submittal to date. Submit documents electronically within 30 days.
Violation Division:	Orange County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	437734
Site Name:	HI TECH SOLDER
Violation Date:	08-27-2018
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to establish and electronically submit an adequate training program in safety procedures in the event of a release or threatened release of a hazardous material.
Violation Notes:	Returned to compliance on 09/11/2018.
Violation Division:	Orange County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	437734
Site Name:	HI TECH SOLDER
Violation Date:	08-27-2018
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to establish and electronically submit an adequate emergency response plan and procedures for a release or threatened release of a hazardous material.
Violation Notes:	Returned to compliance on 09/11/2018.
Violation Division:	Orange County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS

Evaluation:

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	04-13-2016
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	On site for routine tiered permitting inspection for the conditionally exempt tier. The inspection and document review were conducted with Jose Salas. James Hendron (OCHCA) was also present for the inspection. Facility generates waste water and filter cake that is hazardous for copper. The facility conducts treatment of the waste water which is disposed of to the sewer under permit. Facility sends approximately 50 gallons of hazardous waste (spent etch bath) per month to the

HI TECH SOLDER (Continued) **1008388697**

treatment system. The filter cake is processed approximately once per year and hauled as a hazardous waste. The following documents are available for review: inspection log, and treatment log. The written operating instructions were not available. Please send a copy of these instructions to this Agency.

Eval Division: Orange County Environmental Health
Eval Program: CE
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-13-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: On site for a routine hazardous waste inspection. Inspection was conducted with Jose Salas who gave permission to conduct the inspection. James Hendron (OCHCA) was also present at the inspection. Facility generates filter cake containing copper and waste tin and lead. The tin and lead are sent for recycling by Salvage One. Hazardous waste container was not labeled (see violation). A label was placed on the container at the inspection. This violation is abated and no further action is required. Facility sends the spent etchant through the treatment system. The sludge from the system is processed approximately once per year and the waste hauled at that time. Manifests were available for review. Facility is assigned and using EPA ID# CAR000163709. Facility?s number is inactive per DTSC website. Discussed this with the operator. Mr. Salas states that they recently sent information to reactivate their number. Please note, facility?s hazardous waste hauler has [Truncated]

Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-13-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Hi Tech On site to conduct an initial Hazardous Materials and Business Emergency Plan inspection. Inspection was conducted with Jose Salas. James Hendron (OCHCA) was also on site for the inspection. Observed the facility and inspected hazardous materials storage. The following hazardous materials were observed in amounts that exceed the required disclosure quantities: -Superflux +, drum -waste water treatment tanks -etch, process tanks REQUIREMENT FOR ELECTRONIC SUBMITTAL OF HMBEP DOCUMENTS: This report serves as notice that the facility must submit the following documents electronically within 30 days to the CERS database: -Business Emergency Plan -Hazardous Materials Chemical Inventory -Site Map The facility is responsible for identifying all hazardous materials, to include hazardous wastes, which are above the disclosure thresholds. If there is a change in the type or amount of chemicals that are maintained on site, please submit revised documents [Truncated]

Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 04-13-2016

HI TECH SOLDER (Continued) **1008388697**

Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Not reported
Eval Division:	Orange County Environmental Health
Eval Program:	CE
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	04-13-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Not reported
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	05-01-2018
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	05-01-2018
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	On site for routine tiered permitting inspection for the conditionally exempt tier. Inspection was conducted with owner Hector Salas. Facility generates waste water and filter cake that is hazardous for copper. The facility conducts treatment of the waste water which is disposed of to the sewer under permit. Facility sends approximately 50 gallons of hazardous waste (spent etch bath) per month to the treatment system. The filter cake is processed approximately once per year and hauled as a hazardous waste. The following documents are available for review: sanitation discharge permit, inspection log, operating instructions and treatment log. Secondary containment structures were observed to be dry.
Eval Division:	Orange County Environmental Health
Eval Program:	CE
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	06-28-2018
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Request for NOV to be sent to facility forwarded to enforcement group.
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Other/Unknown
Eval Date:	08-29-2018
Violations Found:	No
Eval Type:	Other, not routine, done by local agency

HI TECH SOLDER (Continued) **1008388697**

Eval Notes: On site to assist with CERS submittal.
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 05-01-2018
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: The following hazardous materials were observed in amounts that exceed the required disclosure quantities: -Superflux +, drum -waste water treatment tanks -etch, process tanks Facility was previously notified of the requirement to comply with the electronic reporting requirements and has not completed an electronic submittal to date. REQUIREMENT FOR ELECTRONIC SUBMITTAL OF HMBEP DOCUMENTS: This report serves as notice that the facility must submit the following documents electronically within 30 days to the CERS database: -Business Emergency Plan -Hazardous Materials Chemical Inventory -Site Map The facility is responsible for identifying all hazardous materials, to include hazardous wastes, which are above the disclosure thresholds. If there is a change in the type or amount of chemicals that are maintained on site, please submit revised documents (electronically) within 30 days of the change. The California Electronic Reporting System (CERS) can be [Truncated]
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 07-19-2018
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: NOV: NOV CERTIFIED MAIL RECEIPT RECEIVED SIGNED 7.13.18
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 08-07-2017
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: During a routine hazardous materials inspection of your facility conducted on 4/13/2016, it was noted that you store hazardous materials on site above reporting threshold limits. Your facility was directed to submit reporting data electronically to the California Electronic Reporting System (CERS). To date, there has been no electronic submitted made and violation I169 and I292 are being cited for failure to comply with electronic reporting requirements. Please submit completed, accurate information to CERS within 30 days. The California Electronic Reporting System (CERS) can be located at https://cersbusiness.calepa.ca.gov The completed site map will need to contain all of the following information: Site orientation, loading areas, internal roads, adjacent streets, storm drains and sewers, access and exit points, emergency shut-offs (natural gas, water and electrical), evacuation staging areas, hazardous material storage areas, and emergency response [Truncated]
Eval Division: Orange County Environmental Health

HI TECH SOLDER (Continued) **1008388697**

Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	08-27-2018
Violations Found:	Yes
Eval Type:	Other, not routine, done by local agency
Eval Notes:	On site for a follow up inspection following non-compliance with Notice of Violation issued on July 10, 2018. Inspection was conducted with Jose Luis Salas. Violations noted remain outstanding. Violations I292, I169, I736, I239, I632, I208, I368, I463 and I551 for failure to comply with hazardous materials electronic reporting requirements remain outstanding. Reasonable notice has been given to the business and attempts have been made to assist the business with compliance. Violations are being elevated to Class 1 violations which require formal enforcement actions by this Agency.
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	09-10-2018
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	On site to assist with CERS submittal.
Eval Division:	Orange County Environmental Health
Eval Program:	CE
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	08-28-2018
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Inspection report forwarded for enforcement.
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS

Enforcement Action:

Site ID:	437734
Site Name:	HI TECH SOLDER
Site Address:	700 MONROE WAY
Site City:	PLACENTIA
Site Zip:	92870
Enf Action Date:	07-10-2018
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	Orange County Environmental Health
Enf Action Program:	HMRRP
Enf Action Source:	CERS

Coordinates:

Site ID:	437734
Facility Name:	HI TECH SOLDER
Env Int Type Code:	HMBP

HI TECH SOLDER (Continued) **1008388697**

Program ID:	10523974
Coord Name:	Not reported
Ref Point Type Desc:	Center of a facility or station.
Latitude:	33.863330
Longitude:	-117.876620

Affiliation:

Affiliation Type Desc:	Environmental Contact
Entity Name:	Hector Salas
Entity Title:	Not reported
Affiliation Address:	700 MONROE WAY
Affiliation City:	PLACENTIA
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92870
Affiliation Phone:	Not reported

Affiliation Type Desc:	Parent Corporation
Entity Name:	HI TECH SOLDER
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Document Preparer
Entity Name:	Hector Salas
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	700 Monroe Way
Affiliation City:	Placentia
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92870
Affiliation Phone:	Not reported

Affiliation Type Desc:	Legal Owner
Entity Name:	Hector Salas
Entity Title:	Not reported
Affiliation Address:	700 MONROE WAY
Affiliation City:	PLACENTIA
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92870
Affiliation Phone:	(714) 572-1200

HI TECH SOLDER (Continued) **1008388697**

Affiliation Type Desc:	Onsite Treatment Unit Owner Operator
Entity Name:	Hector Salas
Entity Title:	owner
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Operator
Entity Name:	Hector Salas
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(714) 572-1200

Affiliation Type Desc:	CUPA District
Entity Name:	Orange County Env Health
Entity Title:	Not reported
Affiliation Address:	1241 East Dyer RoadSuite 120
Affiliation City:	Santa Ana
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92705-5611
Affiliation Phone:	(714) 433-6000

Affiliation Type Desc:	Identification Signer
Entity Name:	Hector Salas
Entity Title:	owner
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Property Owner
Entity Name:	jonathan Huling
Entity Title:	Not reported
Affiliation Address:	2324 N. Batavia ST.
Affiliation City:	Orange
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92865
Affiliation Phone:	(714) 998-1300

FINDS:

Registry ID: 110022527728

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource

HI TECH SOLDER (Continued) **1008388697**

Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1008388697
Registry ID:	110022527728
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110022527728

CERS TANKS:

Site ID:	437734
CERS ID:	10523974
Site Name:	HI TECH SOLDER
CERS Description:	Chemical Storage Facilities

Violations:

Site ID:	437734
Site Name:	HI TECH SOLDER
Violation Date:	05-01-2018
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to establish and electronically submit an adequate emergency response plan and procedures for a release or threatened release of a hazardous material.
Violation Notes:	Returned to compliance on 10/01/2018. Facility was previously notified of the requirement to comply with the electronic reporting requirements and has not completed an electronic submittal to date. Submit documents electronically within 30 days.
Violation Division:	Orange County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS

Site ID:	437734
Site Name:	HI TECH SOLDER
Violation Date:	05-01-2018
Citation:	HSC 6.95 25508.2 - California Health and Safety Code, Chapter 6.95, Section(s) 25508.2
Violation Description:	Failure to annually review and electronically certify that the business plan is complete and accurate on or before the annual due date.
Violation Notes:	Returned to compliance on 09/11/2018. Facility was previously notified of the requirement to comply with the electronic reporting requirements and has not completed an electronic submittal to date. Submit documents electronically within 30 days.
Violation Division:	Orange County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS

Site ID:	437734
Site Name:	HI TECH SOLDER
Violation Date:	08-27-2018

HI TECH SOLDER (Continued) **1008388697**

Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit the Business Activities Page and/or Business Owner Operator Identification Page.
Violation Notes:	Returned to compliance on 09/11/2018.
Violation Division:	Orange County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS

Site ID:	437734
Site Name:	HI TECH SOLDER
Violation Date:	08-07-2017
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes:	Returned to compliance on 05/30/2018.
Violation Division:	Orange County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS

Site ID:	437734
Site Name:	HI TECH SOLDER
Violation Date:	08-27-2018
Citation:	HSC 6.95 25507 - California Health and Safety Code, Chapter 6.95, Section(s) 25507
Violation Description:	Failure to adequately establish and implement a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes:	Returned to compliance on 09/11/2018.
Violation Division:	Orange County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS

Site ID:	437734
Site Name:	HI TECH SOLDER
Violation Date:	08-27-2018
Citation:	HSC 6.95 25505(a)(4) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a)(4)
Violation Description:	Failure to provide initial and annual training to all employees in safety procedures in the event of a release or threatened release of a hazardous material or failure to document and maintain training records for a minimum of three years.
Violation Notes:	Returned to compliance on 09/11/2018.
Violation Division:	Orange County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS

Site ID:	437734
Site Name:	HI TECH SOLDER
Violation Date:	08-27-2018
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.

HI TECH SOLDER (Continued) **1008388697**

Violation Notes: Returned to compliance on 09/11/2018.
Violation Division: Orange County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 437734
Site Name: HI TECH SOLDER
Violation Date: 05-01-2018
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to establish and electronically submit an adequate training program in safety procedures in the event of a release or threatened release of a hazardous material.
Violation Notes: Returned to compliance on 10/01/2018. Facility was previously notified of the requirement to comply with the electronic reporting requirements and has not completed an electronic submittal to date. Submit documents electronically within 30 days.
Violation Division: Orange County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 437734
Site Name: HI TECH SOLDER
Violation Date: 08-07-2017
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes: Returned to compliance on 05/30/2018.
Violation Division: Orange County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 437734
Site Name: HI TECH SOLDER
Violation Date: 05-01-2018
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes: Returned to compliance on 10/01/2018. Facility was previously notified of the requirement to comply with the electronic reporting requirements and has not completed an electronic submittal to date. Submit documents electronically within 30 days.
Violation Division: Orange County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 437734
Site Name: HI TECH SOLDER
Violation Date: 08-27-2018
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit a business plan when storing/handling a hazardous material at or above reportable

HI TECH SOLDER (Continued) **1008388697**

	quantities.
Violation Notes:	Returned to compliance on 09/11/2018.
Violation Division:	Orange County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	437734
Site Name:	HI TECH SOLDER
Violation Date:	04-13-2016
Citation:	22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description:	Failure to properly label hazardous waste accumulation containers with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes:	Returned to compliance on 04/13/2016. Hazardous waste container was not labeled. A label was placed on the container at the inspection. This violation is abated and no further action is required.
Violation Division:	Orange County Environmental Health
Violation Program:	HW
Violation Source:	CERS
Site ID:	437734
Site Name:	HI TECH SOLDER
Violation Date:	08-27-2018
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit a site map with all required content.
Violation Notes:	Returned to compliance on 09/11/2018.
Violation Division:	Orange County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	437734
Site Name:	HI TECH SOLDER
Violation Date:	05-01-2018
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit the Business Activities Page and/or Business Owner Operator Identification Page.
Violation Notes:	Returned to compliance on 10/01/2018. Facility was previously notified of the requirement to comply with the electronic reporting requirements and has not completed an electronic submittal to date. Submit documents electronically within 30 days.
Violation Division:	Orange County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	437734
Site Name:	HI TECH SOLDER
Violation Date:	05-01-2018
Citation:	HSC 6.95 25505(a)(4) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a)(4)
Violation Description:	Failure to provide initial and annual training to all employees in safety procedures in the event of a release or threatened release of a hazardous material or failure to document and maintain training

HI TECH SOLDER (Continued) **1008388697**

	records for a minimum of three years.
Violation Notes:	Returned to compliance on 10/01/2018. Conduct the required training and send a copy of the sign-in sheet to this agency.
Violation Division:	Orange County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	437734
Site Name:	HI TECH SOLDER
Violation Date:	05-01-2018
Citation:	HSC 6.95 25507 - California Health and Safety Code, Chapter 6.95, Section(s) 25507
Violation Description:	Failure to adequately establish and implement a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes:	Returned to compliance on 10/01/2018. Facility was previously notified of the requirement to comply with the electronic reporting requirements and has not completed an electronic submittal to date. Submit documents electronically within 30 days.
Violation Division:	Orange County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	437734
Site Name:	HI TECH SOLDER
Violation Date:	05-01-2018
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes:	Returned to compliance on 10/01/2018. Facility was previously notified of the requirement to comply with the electronic reporting requirements and has not completed an electronic submittal to date. Submit documents electronically within 30 days.
Violation Division:	Orange County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	437734
Site Name:	HI TECH SOLDER
Violation Date:	05-01-2018
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit a site map with all required content.
Violation Notes:	Returned to compliance on 10/01/2018. Facility was previously notified of the requirement to comply with the electronic reporting requirements and has not completed an electronic submittal to date. Submit documents electronically within 30 days.
Violation Division:	Orange County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	437734
Site Name:	HI TECH SOLDER
Violation Date:	08-27-2018

HI TECH SOLDER (Continued) **1008388697**

Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to establish and electronically submit an adequate training program in safety procedures in the event of a release or threatened release of a hazardous material.
Violation Notes:	Returned to compliance on 09/11/2018.
Violation Division:	Orange County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	437734
Site Name:	HI TECH SOLDER
Violation Date:	08-27-2018
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to establish and electronically submit an adequate emergency response plan and procedures for a release or threatened release of a hazardous material.
Violation Notes:	Returned to compliance on 09/11/2018.
Violation Division:	Orange County Environmental Health
Violation Program:	HMRRP
Violation Source:	CERS

Evaluation:

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	04-13-2016
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	On site for routine tiered permitting inspection for the conditionally exempt tier. The inspection and document review were conducted with Jose Salas. James Hendron (OCHCA) was also present for the inspection. Facility generates waste water and filter cake that is hazardous for copper. The facility conducts treatment of the waste water which is disposed of to the sewer under permit. Facility sends approximately 50 gallons of hazardous waste (spent etch bath) per month to the treatment system. The filter cake is processed approximately once per year and hauled as a hazardous waste. The following documents are available for review: inspection log, and treatment log. The written operating instructions were not available. Please send a copy of these instructions to this Agency.
Eval Division:	Orange County Environmental Health
Eval Program:	CE
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	04-13-2016
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	On site for a routine hazardous waste inspection. Inspection was conducted with Jose Salas who gave permission to conduct the inspection. James Hendron (OCHCA) was also present at the inspection. Facility generates filter cake containing copper and waste tin and lead. The tin and lead are sent for recycling by Salvage One. Hazardous waste container was not labeled (see violation). A label was placed on the container at the inspection. This violation is abated and no further action is required. Facility sends the spent etchant through the treatment system. The sludge from the system is processed

HI TECH SOLDER (Continued) **1008388697**

approximately once per year and the waste hauled at that time. Manifests were available for review. Facility is assigned and using EPA ID# CAR000163709. Facility?s number is inactive per DTSC website. Discussed this with the operator. Mr. Salas states that they recently sent information to reactivate their number. Please note, facility?s hazardous waste hauler has [Truncated]

Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-13-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Hi Tech On site to conduct an initial Hazardous Materials and Business Emergency Plan inspection. Inspection was conducted with Jose Salas. James Hendron (OCHCA) was also on site for the inspection. Observed the facility and inspected hazardous materials storage. The following hazardous materials were observed in amounts that exceed the required disclosure quantities: -Superflux +, drum -waste water treatment tanks -etch, process tanks REQUIREMENT FOR ELECTRONIC SUBMITTAL OF HMBEP DOCUMENTS: This report serves as notice that the facility must submit the following documents electronically within 30 days to the CERS database: -Business Emergency Plan -Hazardous Materials Chemical Inventory -Site Map The facility is responsible for identifying all hazardous materials, to include hazardous wastes, which are above the disclosure thresholds. If there is a change in the type or amount of chemicals that are maintained on site, please submit revised documents [Truncated]
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 04-13-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Orange County Environmental Health
Eval Program: CE
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 04-13-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 05-01-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Orange County Environmental Health

HI TECH SOLDER (Continued) **1008388697**

Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	05-01-2018
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	On site for routine tiered permitting inspection for the conditionally exempt tier. Inspection was conducted with owner Hector Salas. Facility generates waste water and filter cake that is hazardous for copper. The facility conducts treatment of the waste water which is disposed of to the sewer under permit. Facility sends approximately 50 gallons of hazardous waste (spent etch bath) per month to the treatment system. The filter cake is processed approximately once per year and hauled as a hazardous waste. The following documents are available for review: sanitation discharge permit, inspection log, operating instructions and treatment log. Secondary containment structures were observed to be dry.
Eval Division:	Orange County Environmental Health
Eval Program:	CE
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	06-28-2018
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Request for NOV to be sent to facility forwarded to enforcement group.
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	08-29-2018
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	On site to assist with CERS submittal.
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	05-01-2018
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	The following hazardous materials were observed in amounts that exceed the required disclosure quantities: -Superflux +, drum -waste water treatment tanks -etch, process tanks Facility was previously notified of the requirement to comply with the electronic reporting requirements and has not completed an electronic submittal to date. REQUIREMENT FOR ELECTRONIC SUBMITTAL OF HMBEP DOCUMENTS: This report serves as notice that the facility must submit the following documents electronically within 30 days to the CERS database: -Business Emergency Plan -Hazardous Materials Chemical Inventory -Site Map The facility is responsible for identifying all hazardous materials, to include hazardous wastes, which are above the disclosure thresholds. If there is a change in the type or amount of chemicals that are maintained on site, please submit revised documents (electronically)

HI TECH SOLDER (Continued) **1008388697**

within 30 days of the change. The California Electronic Reporting System (CERS) can be [Truncated]
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 07-19-2018
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: NOV: NOV CERTIFIED MAIL RECEIPT RECEIVED SIGNED 7.13.18
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 08-07-2017
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: During a routine hazardous materials inspection of your facility conducted on 4/13/2016, it was noted that you store hazardous materials on site above reporting threshold limits. Your facility was directed to submit reporting data electronically to the California Electronic Reporting System (CERS). To date, there has been no electronic submitted made and violation I169 and I292 are being cited for failure to comply with electronic reporting requirements. Please submit completed, accurate information to CERS within 30 days. The California Electronic Reporting System (CERS) can be located at https://cersbusiness.calepa.ca.gov The completed site map will need to contain all of the following information: Site orientation, loading areas, internal roads, adjacent streets, storm drains and sewers, access and exit points, emergency shut-offs (natural gas, water and electrical), evacuation staging areas, hazardous material storage areas, and emergency response [Truncated]
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 08-27-2018
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: On site for a follow up inspection following non-compliance with Notice of Violation issued on July 10, 2018. Inspection was conducted with Jose Luis Salas. Violations noted remain outstanding. Violations I292, I169, I736, I239, I632, I208, I368, I463 and I551 for failure to comply with hazardous materials electronic reporting requirements remain outstanding. Reasonable notice has been given to the business and attempts have been made to assist the business with compliance. Violations are being elevated to Class 1 violations which require formal enforcement actions by this Agency.
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 09-10-2018

HI TECH SOLDER (Continued) **1008388697**

Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	On site to assist with CERS submittal.
Eval Division:	Orange County Environmental Health
Eval Program:	CE
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	08-28-2018
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Inspection report forwarded for enforcement.
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS

Enforcement Action:

Site ID:	437734
Site Name:	HI TECH SOLDER
Site Address:	700 MONROE WAY
Site City:	PLACENTIA
Site Zip:	92870
Enf Action Date:	07-10-2018
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	Orange County Environmental Health
Enf Action Program:	HMRRP
Enf Action Source:	CERS

Coordinates:

Site ID:	437734
Facility Name:	HI TECH SOLDER
Env Int Type Code:	HMBP
Program ID:	10523974
Coord Name:	Not reported
Ref Point Type Desc:	Center of a facility or station.
Latitude:	33.863330
Longitude:	-117.876620

Affiliation:

Affiliation Type Desc:	Environmental Contact
Entity Name:	Hector Salas
Entity Title:	Not reported
Affiliation Address:	700 MONROE WAY
Affiliation City:	PLACENTIA
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92870
Affiliation Phone:	Not reported
Affiliation Type Desc:	Parent Corporation
Entity Name:	HI TECH SOLDER
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported

HI TECH SOLDER (Continued) **1008388697**

Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Document Preparer
Entity Name:	Hector Salas
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	700 Monroe Way
Affiliation City:	Placentia
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92870
Affiliation Phone:	Not reported

Affiliation Type Desc:	Legal Owner
Entity Name:	Hector Salas
Entity Title:	Not reported
Affiliation Address:	700 MONROE WAY
Affiliation City:	PLACENTIA
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92870
Affiliation Phone:	(714) 572-1200

Affiliation Type Desc:	Onsite Treatment Unit Owner Operator
Entity Name:	Hector Salas
Entity Title:	owner
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Operator
Entity Name:	Hector Salas
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(714) 572-1200

Affiliation Type Desc:	CUPA District
Entity Name:	Orange County Env Health

HI TECH SOLDER (Continued) **1008388697**

Entity Title:	Not reported
Affiliation Address:	1241 East Dyer RoadSuite 120
Affiliation City:	Santa Ana
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92705-5611
Affiliation Phone:	(714) 433-6000

Affiliation Type Desc:	Identification Signer
Entity Name:	Hector Salas
Entity Title:	owner
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Property Owner
Entity Name:	jonathan Huling
Entity Title:	Not reported
Affiliation Address:	2324 N. Batavia ST.
Affiliation City:	Orange
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92865
Affiliation Phone:	(714) 998-1300

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173 **GRAPHICS 2000** **CA ENVIROSTOR** **S104580286**
SW **1600 E VALENCIA** **CA LUST** **N/A**
1/2-1 **FULLERTON, CA 92831** **CA CERS HAZ WASTE**
0.940 mi. **CA Orange Co. Industrial Site**
4964 ft. **CA EMI**
CA HAZNET
Relative: **CA NPDES**
Lower **CA CIWQS**
Actual: **CA CERS**
186 ft.

ENVIROSTOR:

Facility ID:	60001451
Status:	Inactive - Needs Evaluation
Status Date:	09/14/2011
Site Code:	401565
Site Type:	Evaluation
Site Type Detailed:	Evaluation
Acres:	0
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Not reported
Supervisor:	* Greg Holmes
Division Branch:	Cleanup Cypress
Assembly:	65
Senate:	29
Special Program:	EPA - PASI
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED

GRAPHICS 2000 (Continued) **S104580286**

Funding: EPA Grant
Latitude: 33.86676
Longitude: -117.8990
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: 401565
Alias Type: Project Code (Site Code)
Alias Name: 60001451
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: PA/SI Site Screening
Completed Date: 03/09/2012
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

LUST:
Lead Agency: FULLERTON, CITY OF
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0605901825
Global Id: T0605901825
Latitude: 33.86589
Longitude: -117.899154
Status: Completed - Case Closed
Status Date: 01/20/1995
Case Worker: SRL
RB Case Number: 083002617T
Local Agency: FULLERTON, CITY OF
File Location: Not reported
Local Case Number: Not reported
Potential Media Affect: Soil
Potential Contaminants of Concern: Gasoline
Site History: Not reported

LUST:
Global Id: T0605901825
Contact Type: Local Agency Caseworker
Contact Name: STEPHEN LONG
Organization Name: FULLERTON, CITY OF
Address: 312 E. COMMONWEALTH AVE.
City: FULLERTON
Email: stevel@fullertonfire.org
Phone Number: 7147383160

GRAPHICS 2000 (Continued) **S104580286**

Global Id: T0605901825
Contact Type: Regional Board Caseworker
Contact Name: VALERIE JAHN-BULL
Organization Name: SANTA ANA RWQCB (REGION 8)
Address: 3737 MAIN STREET, SUITE 500
City: RIVERSIDE
Email: valerie.jahn-bull@waterboards.ca.gov
Phone Number: 9517824903

LUST:
Global Id: T0605901825
Action Type: Other
Date: 10/27/1994
Action: Leak Reported

Global Id: T0605901825
Action Type: Other
Date: 10/27/1994
Action: Leak Discovery

Global Id: T0605901825
Action Type: Other
Date: 10/27/1994
Action: Leak Stopped

LUST:
Global Id: T0605901825
Status: Completed - Case Closed
Status Date: 01/20/1995

Global Id: T0605901825
Status: Open - Case Begin Date
Status Date: 10/27/1994

CERS HAZ WASTE:
Site ID: 411407
CERS ID: 10518484
CERS Description: Hazardous Waste Generator

Violations:
Site ID: 411407
Site Name: ORORA VISUAL ORANGE COUNTY
Violation Date: 07-14-2016
Citation: 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description: Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes: Returned to compliance on 07/14/2016. The solvent mixtures waste containers did not have any labels. Please make sure all containers holding hazardous waste has the following information on the label: "Hazardous Waste", waste (name), hazard property (Eg: toxic, flammable, corrosive, reactive etc.), physical state (solid, liquid),

GRAPHICS 2000 (Continued) **S104580286**

accumulation start date, and the business address. Violation was noted for improper labeling, was corrected during the inspection.

Violation Division: Orange County Environmental Health
Violation Program: HW
Violation Source: CERS

Site ID: 411407
Site Name: ORORA VISUAL ORANGE COUNTY
Violation Date: 07-14-2016
Citation: 22 CCR 23 66273.34 - California Code of Regulations, Title 22, Chapter 23, Section(s) 66273.34
Violation Description: Failure to label or mark each individual or container or the designated area of universal waste as required. 1) Waste batteries shall be marked with "Universal Waste-Battery(ies)?. 2) Mercury containing equipment shall be marked with "Universal Waste -Mercury-Containing Equipment?. 3) Lamps shall be marked with ?Universal Waste-Lamp(s)?. 4)Each electronic devices or the container or the designated area shall be marked with ?Universal Waste-Electronic Device(s)?. 5) Each CRTs or the container or the designated area shall be marked with "Universal Waste-CRT(s)?. 6) CRT glass or the designated area shall be marked with ?Universal Waste-CRT glass?.
Violation Notes: Returned to compliance on 07/14/2016. The fluorescent light bulbs found inside the power room did not have any labels on them. Please make sure all containers holding Universal waste has the following information on the label: "Universal Waste-Lamp", accumulation start date and the business address. Violation was noted for improper labeling, was corrected during the inspection.
Violation Division: Orange County Environmental Health
Violation Program: HW
Violation Source: CERS

Site ID: 411407
Site Name: ORORA VISUAL ORANGE COUNTY
Violation Date: 01-10-2014
Citation: HSC 6.95 25505(a) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a)
Violation Description: Owner/Operator failed to complete and/or submit a Hazardous Materials Business Plan when storing hazardous materials at or above the thresholds quantities of 55 gallons/500 lbs/200 cubic feet.
Violation Notes: Not reported
Violation Division: Orange County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 411407
Site Name: ORORA VISUAL ORANGE COUNTY
Violation Date: 08-30-2017
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes: Returned to compliance on 10/16/2018. Facility shall differentiate types of ink with varying hazardous constituents and disclose accurate maximum daily - observed was approximately 250 gallons. Additionally, waste paint observed was in excess of disclosed quantity at 165

GRAPHICS 2000 (Continued) **S104580286**

gallons. Facility shall update inventory and resubmit to this agency.
Violation Division: Fullerton City Fire Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 411407
Site Name: ORORA VISUAL ORANGE COUNTY
Violation Date: 07-14-2016
Citation: 22 CCR 12 66262.12 - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.12
Violation Description: Failure to obtain an Identification Number prior to treating, storing, disposing of, transporting or offering for transportation any hazardous waste.
Violation Notes: Returned to compliance on 07/14/2016. The EPA ID number that was used to ship waste on 4/25/16 for Graphic Tech is inactive as of 5/13/2011. The silver waste and the solvent waste was shipped using inactive EPA ID number. Please re-activate EPA ID number prior to shipping hazardous waste.
Violation Division: Orange County Environmental Health
Violation Program: HW
Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-10-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: VIOLATION NOTED
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-13-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: INSPECTOR COMMENTS Orora Visual Orange County 1600 E Valencia Drive Fullerton, CA 92831 Facility has just gone through an ownership change and they are in the process of updating their EPA ID#. On site for a change of ownership hazardous waste inspection. Consent to inspect and take any necessary photos was given by John Rigney, general manager. Walked throughout the facility. Observed hazardous waste storage areas. Facility is a digital print shop, they generate a very small amount of silver recovery photo waste. Containers were closed and properly labeled. Manifests were not available and reviewed, facility has not had any waste hauled since the change of ownership. Employees are reported to be trained. Emergency plan is posted near the front office area. The dumpster was observed, no signs of dumping. Ownership and employee count were confirmed facility is owned by orora packaging and have 87 employees.
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 07-14-2016
Violations Found: No

GRAPHICS 2000 (Continued) **S104580286**

Eval Type:	Other, not routine, done by local agency
Eval Notes:	Not reported
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-30-2017
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Violation noted.
Eval Division:	Fullerton City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-14-2016
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	7/14/16 - Graphic Tech Inc On site to conduct a routine hazardous a routine hazardous waste inspection. Consent to enter, inspect and take any necessary photos was given by Director of digital operations, Jimmy Chang at 2:45 pm. The hazardous waste containers found here: - Silver Waste = 100 pounds - Fluorescent light bulbs = 80 items - Solvent mixture = 110 gallons All containers of hazardous waste were covered and but not labeled. Manifests were available and were reviewed and waste was picked up by Safety Kleen. Walked the perimeter of the site, and there were no hazardous waste spills or discharges observed during this inspection. Emergency response sticker with the necessary information was posted inside the break room. The 40 yard bins were visually inspected no hazardous waste was observed. Large recycle bins within the screen printing warehouse had labels that told the employees to only dispose paper waste. The weekly inspections are by [Truncated]
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-11-2015
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Fullerton City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS

Enforcement Action:

Site ID:	411407
Site Name:	ORORA VISUAL ORANGE COUNTY
Site Address:	1600 E VALENCIA DR
Site City:	FULLERTON
Site Zip:	92831
Enf Action Date:	01-10-2014
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported

GRAPHICS 2000 (Continued) **S104580286**

Enf Action Division: Orange County Environmental Health
Enf Action Program: HMRRP
Enf Action Source: CERS

Coordinates:
Site ID: 411407
Facility Name: ORORA VISUAL ORANGE COUNTY
Env Int Type Code: HMBP
Program ID: 10518484
Coord Name: Not reported
Ref Point Type Desc: Center of a facility or station.
Latitude: 33.865830
Longitude: -117.899040

Affiliation:
Affiliation Type Desc: CUPA District
Entity Name: Orange County Env Health
Entity Title: Not reported
Affiliation Address: 1241 East Dyer RoadSuite 120
Affiliation City: Santa Ana
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92705-5611
Affiliation Phone: (714) 433-6000

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 1600 E VALENCIA DR
Affiliation City: FULLERTON
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92831
Affiliation Phone: Not reported

Affiliation Type Desc: Identification Signer
Entity Name: John Rigney
Entity Title: Director of Operations
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Environmental Contact
Entity Name: John Rigney
Entity Title: Not reported
Affiliation Address: 1600 E. Valencia Drive
Affiliation City: Fullerton
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92831
Affiliation Phone: Not reported

Affiliation Type Desc: Legal Owner

GRAPHICS 2000 (Continued) **S104580286**

Entity Name:	ORORA VISUAL ORANGE COUNTY
Entity Title:	Not reported
Affiliation Address:	1600 E VALENCIA DR
Affiliation City:	FULLERTON
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92831
Affiliation Phone:	(714) 879-2400

Affiliation Type Desc:	Operator
Entity Name:	John Rigney
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(714) 879-2400

Affiliation Type Desc:	Parent Corporation
Entity Name:	ORORA VISUAL ORANGE COUNTY
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Document Preparer
Entity Name:	John Rigney
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Orange Co. Industrial Site:

Case ID:	89IC036
Record ID:	RO0000212
Current Status:	CLOSED 9/13/1991
Closure Type:	Closed pre 1994, file review required to determine closure type
Released Chemical:	SOLVENTS-HALOGENATED

EMI:

Year:	2002
County Code:	30
Air Basin:	SC
Facility ID:	117861
Air District Name:	SC
SIC Code:	2759
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported

GRAPHICS 2000 (Continued) **S104580286**

Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	6
Reactive Organic Gases Tons/Yr:	6
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2003
County Code:	30
Air Basin:	SC
Facility ID:	117861
Air District Name:	SC
SIC Code:	2759
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	6
Reactive Organic Gases Tons/Yr:	6
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2004
County Code:	30
Air Basin:	SC
Facility ID:	117861
Air District Name:	SC
SIC Code:	2759
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	5.879
Reactive Organic Gases Tons/Yr:	5.88
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2005
County Code:	30
Air Basin:	SC
Facility ID:	117861
Air District Name:	SC
SIC Code:	2759
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	6.6695
Reactive Organic Gases Tons/Yr:	6.66898575
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0

GRAPHICS 2000 (Continued) **S104580286**

Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2006
County Code:	30
Air Basin:	SC
Facility ID:	117861
Air District Name:	SC
SIC Code:	2759
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1.882489928130377568
Reactive Organic Gases Tons/Yr:	1.882
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2007
County Code:	30
Air Basin:	SC
Facility ID:	117861
Air District Name:	SC
SIC Code:	2759
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1.882489928130377568
Reactive Organic Gases Tons/Yr:	1.882
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2008
County Code:	30
Air Basin:	SC
Facility ID:	117861
Air District Name:	SC
SIC Code:	2759
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1.811714748456321490
Reactive Organic Gases Tons/Yr:	1.81
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2009
County Code:	30
Air Basin:	SC

GRAPHICS 2000 (Continued) **S104580286**

Facility ID:	117861
Air District Name:	SC
SIC Code:	2759
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1.6308821945541001
Reactive Organic Gases Tons/Yr:	1.6288
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2010
County Code:	30
Air Basin:	SC
Facility ID:	117861
Air District Name:	SC
SIC Code:	2759
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	3.64707129061645
Reactive Organic Gases Tons/Yr:	2.2311100000000001
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2011
County Code:	30
Air Basin:	SC
Facility ID:	117861
Air District Name:	SC
SIC Code:	2759
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	4.2165961084
Reactive Organic Gases Tons/Yr:	3.65262
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2012
County Code:	30
Air Basin:	SC
Facility ID:	117861
Air District Name:	SC
SIC Code:	2759
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported

GRAPHICS 2000 (Continued) **S104580286**

Total Organic Hydrocarbon Gases Tons/Yr:	1.3606149469
Reactive Organic Gases Tons/Yr:	0.86273
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2013
County Code:	30
Air Basin:	SC
Facility ID:	117861
Air District Name:	SC
SIC Code:	2759
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	3.3132152526
Reactive Organic Gases Tons/Yr:	2.44187
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2014
County Code:	30
Air Basin:	SC
Facility ID:	117861
Air District Name:	SC
SIC Code:	2759
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.48358713775
Reactive Organic Gases Tons/Yr:	0.28035
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

HAZNET:

Site Name:	GRAPHIC TECH, LLC
Year:	2017
GEPAID:	CAL000172479
Contact:	JOHN RIGNEY
Telephone:	7148792400
Mailing Name:	Not reported
Mailing Address:	1600 E VALENCIA DR
Mailing City,St,Zip:	FULLERTON, CA 928310000
Gen County:	Orange
TSD EPA ID:	NED981723513
TSD County:	99
Tons:	0.025
CA Waste Code:	343-Unspecified organic liquid mixture
Method:	H040-Incineration--Thermal Destruction Other Than Use As A Fuel

GRAPHICS 2000 (Continued) **S104580286**

Facility County: Orange

Site Name: GRAPHIC TECH, LLC
Year: 2016
GEPAID: CAL000172479
Contact: JOHN RIGNEY
Telephone: 7148792400
Mailing Name: Not reported
Mailing Address: 1600 E VALENCIA DR
Mailing City,St,Zip: FULLERTON, CA 928310000
Gen County: Orange
TSD EPA ID: CAD044429835
TSD County: Los Angeles
Tons: 0.06
CA Waste Code: 541-Photochemicals/photoprocessing waste
Method: H141-Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County: Orange

Site Name: GRAPHIC TECH, LLC
Year: 2016
GEPAID: CAL000172479
Contact: JOHN RIGNEY
Telephone: 7148792400
Mailing Name: Not reported
Mailing Address: 1600 E VALENCIA DR
Mailing City,St,Zip: FULLERTON, CA 928310000
Gen County: Orange
TSD EPA ID: NED981723513
TSD County: 99
Tons: 0.06
CA Waste Code: 343-Unspecified organic liquid mixture
Method: H040-Incineration--Thermal Destruction Other Than Use As A Fuel
Facility County: Orange

Site Name: GRAPHIC TECH, LLC
Year: 2015
GEPAID: CAL000172479
Contact: R A WILLIAMS DIR OF PRE-PRESS
Telephone: 7148792400
Mailing Name: Not reported
Mailing Address: 1600 E VALENCIA DR
Mailing City,St,Zip: FULLERTON, CA 928310000
Gen County: Orange
TSD EPA ID: NED981723513
TSD County: 99
Tons: 0.04
CA Waste Code: 343-Unspecified organic liquid mixture
Method: H040-Incineration--Thermal Destruction Other Than Use As A Fuel
Facility County: Orange

Site Name: GRAPHIC TECH, LLC
Year: 2014
GEPAID: CAL000172479
Contact: R A WILLIAMS DIR OF PRE-PRESS
Telephone: 7148792400
Mailing Name: Not reported

GRAPHICS 2000 (Continued) **S104580286**

Mailing Address:	1600 E VALENCIA DR
Mailing City,St,Zip:	FULLERTON, CA 928310000
Gen County:	Orange
TSD EPA ID:	NED981723513
TSD County:	99
Tons:	0.04
CA Waste Code:	343-Unspecified organic liquid mixture
Method:	H040-Incineration--Thermal Destruction Other Than Use As A Fuel
Facility County:	Orange

Click this hyperlink while viewing on your computer to access
1 additional CA_HAZNET: record(s) in the EDR Site Report.

NPDES:

Facility Status:	Terminated
NPDES Number:	CAS000001
Region:	8
Agency Number:	0
Regulatory Measure ID:	302120
Place ID:	Not reported
Order Number:	97-03-DWQ
WDID:	8 30I020205
Regulatory Measure Type:	Enrollee
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	05/03/2006
Termination Date Of Regulatory Measure:	05/01/2017
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	1600 E Valencia Dr
Discharge Name:	James Blee
Discharge City:	Fullerton
Discharge State:	California
Discharge Zip:	92831
Status:	Not reported
Status Date:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported

NPDES as of 03/2018:

NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported
Region:	8
Regulatory Measure ID:	302120
Order Number:	Not reported
Regulatory Measure Type:	Industrial
Place ID:	Not reported
WDID:	8 30I020205
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	05/01/2017
Discharge Name:	Not reported

GRAPHICS 2000 (Continued) **S104580286**

Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Received Date:	05/09/2008
Processed Date:	05/03/2006
Status:	Terminated
Status Date:	05/10/2017
Place Size:	65000
Place Size Unit:	SqFt
Contact:	John Rigney
Contact Title:	General Manager
Contact Phone:	714-299-7111
Contact Phone Ext:	Not reported
Contact Email:	johnr@graphictech.net
Operator Name:	James Blee
Operator Address:	1600 E Valencia Dr
Operator City:	Fullerton
Operator State:	California
Operator Zip:	92831
Operator Contact:	John Rigney
Operator Contact Title:	Not reported
Operator Contact Phone:	714-829-2400
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	johnr@graphictech.net
Operator Type:	Private Business
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	California
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	N
Receiving Water Name:	Fullerton Creek
Certifier:	James Blee
Certifier Title:	COO
Certification Date:	17-FEB-15

GRAPHICS 2000 (Continued) **S104580286**

Primary Sic:	2759-Commercial Printing, NEC
Secondary Sic:	Not reported
Tertiary Sic:	Not reported
NPDES Number:	CAS000001
Status:	Terminated
Agency Number:	0
Region:	8
Regulatory Measure ID:	302120
Order Number:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	8 30I020205
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	05/03/2006
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	05/01/2017
Discharge Name:	James Blee
Discharge Address:	1600 E Valencia Dr
Discharge City:	Fullerton
Discharge State:	California
Discharge Zip:	92831
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported

GRAPHICS 2000 (Continued) **S104580286**

Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

Facility Status:	Not reported
NPDES Number:	Not reported
Region:	Not reported
Agency Number:	Not reported
Regulatory Measure ID:	Not reported
Place ID:	Not reported
Order Number:	Not reported
WDID:	8 30I020205
Regulatory Measure Type:	Industrial
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	Not reported
Discharge Name:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Status:	Terminated
Status Date:	05/10/2017
Operator Name:	James Blee
Operator Address:	1600 E Valencia Dr
Operator City:	Fullerton
Operator State:	California
Operator Zip:	92831

NPDES as of 03/2018:

NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported
Region:	8
Regulatory Measure ID:	302120
Order Number:	Not reported

GRAPHICS 2000 (Continued) **S104580286**

Regulatory Measure Type:	Industrial
Place ID:	Not reported
WDID:	8 30I020205
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	05/01/2017
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Received Date:	05/09/2008
Processed Date:	05/03/2006
Status:	Terminated
Status Date:	05/10/2017
Place Size:	65000
Place Size Unit:	SqFt
Contact:	John Rigney
Contact Title:	General Manager
Contact Phone:	714-299-7111
Contact Phone Ext:	Not reported
Contact Email:	johnr@graphictech.net
Operator Name:	James Blee
Operator Address:	1600 E Valencia Dr
Operator City:	Fullerton
Operator State:	California
Operator Zip:	92831
Operator Contact:	John Rigney
Operator Contact Title:	Not reported
Operator Contact Phone:	714-829-2400
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	johnr@graphictech.net
Operator Type:	Private Business
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	California
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported

GRAPHICS 2000 (Continued) **S104580286**

Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	N
Receiving Water Name:	Fullerton Creek
Certifier:	James Blee
Certifier Title:	COO
Certification Date:	17-FEB-15
Primary Sic:	2759-Commercial Printing, NEC
Secondary Sic:	Not reported
Tertiary Sic:	Not reported
NPDES Number:	CAS000001
Status:	Terminated
Agency Number:	0
Region:	8
Regulatory Measure ID:	302120
Order Number:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	8 30I020205
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	05/03/2006
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	05/01/2017
Discharge Name:	James Blee
Discharge Address:	1600 E Valencia Dr
Discharge City:	Fullerton
Discharge State:	California
Discharge Zip:	92831
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported

GRAPHICS 2000 (Continued) **S104580286**

Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

CIWQS:

Agency:	James Blee
Agency Address:	1600 E Valencia Dr, Fullerton, CA 92831
Place/Project Type:	Industrial - Commercial Printing, NEC
SIC/NAICS:	2759
Region:	8
Program:	INDSTW
Regulatory Measure Status:	Terminated
Regulatory Measure Type:	Storm water industrial
Order Number:	2014-0057-DWQ
WDID:	8 30I020205
NPDES Number:	CAS000001
Adoption Date:	Not reported
Effective Date:	05/03/2006
Termination Date:	05/01/2017
Expiration/Review Date:	Not reported
Design Flow:	Not reported
Major/Minor:	Not reported
Complexity:	Not reported
TTWQ:	Not reported
Enforcement Actions within 5 years:	0
Violations within 5 years:	0
Latitude:	33.86681
Longitude:	-117.90088

GRAPHICS 2000 (Continued) **S104580286**

CERS TANKS:

Site ID:	516045
CERS ID:	110061001678
Site Name:	ORORA VISUAL
CERS Description:	US EPA Air Emission Inventory System (EIS)

Affiliation:

Affiliation Type Desc:	Environmental Contact
Entity Name:	JAMES P BLEE
Entity Title:	OWNER COO
Affiliation Address:	1600 E VALENCIA DR
Affiliation City:	FULLERTON
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Site ID:	411407
CERS ID:	10518484
Site Name:	ORORA VISUAL ORANGE COUNTY
CERS Description:	Chemical Storage Facilities

Violations:

Site ID:	411407
Site Name:	ORORA VISUAL ORANGE COUNTY
Violation Date:	07-14-2016
Citation:	22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description:	Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes:	Returned to compliance on 07/14/2016. The solvent mixtures waste containers did not have any labels. Please make sure all containers holding hazardous waste has the following information on the label: "Hazardous Waste", waste (name), hazard property (Eg: toxic, flammable, corrosive, reactive etc.), physical state (solid, liquid), accumulation start date, and the business address. Violation was noted for improper labeling, was corrected during the inspection.
Violation Division:	Orange County Environmental Health
Violation Program:	HW
Violation Source:	CERS

Site ID:	411407
Site Name:	ORORA VISUAL ORANGE COUNTY
Violation Date:	07-14-2016
Citation:	22 CCR 23 66273.34 - California Code of Regulations, Title 22, Chapter 23, Section(s) 66273.34
Violation Description:	Failure to label or mark each individual or container or the designated area of universal waste as required. 1) Waste batteries shall be marked with "Universal Waste-Battery(ies)?. 2) Mercury containing equipment shall be marked with "Universal Waste -Mercury-Containing Equipment?. 3) Lamps shall be marked with ?Universal Waste-Lamp(s)?. 4)Each electronic devices or the container or the designated area shall be marked with ?Universal Waste-Electronic Device(s)?. 5) Each CRTs or the container or the

GRAPHICS 2000 (Continued) **S104580286**

designated area shall be marked with "Universal Waste-CRT(s)?. 6) CRT glass or the designated area shall be marked with ?Universal Waste-CRT glass?.

Violation Notes: Returned to compliance on 07/14/2016. The fluorescent light bulbs found inside the power room did not have any labels on them. Please make sure all containers holding Universal waste has the following information on the label: "Universal Waste-Lamp", accumulation start date and the business address. Violation was noted for improper labeling, was corrected during the inspection.
Violation Division: Orange County Environmental Health
Violation Program: HW
Violation Source: CERS

Site ID: 411407
Site Name: ORORA VISUAL ORANGE COUNTY
Violation Date: 01-10-2014
Citation: HSC 6.95 25505(a) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a)
Violation Description: Owner/Operator failed to complete and/or submit a Hazardous Materials Business Plan when storing hazardous materials at or above the thresholds quantities of 55 gallons/500 lbs/200 cubic feet.
Violation Notes: Not reported
Violation Division: Orange County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 411407
Site Name: ORORA VISUAL ORANGE COUNTY
Violation Date: 08-30-2017
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes: Returned to compliance on 10/16/2018. Facility shall differentiate types of ink with varying hazardous constituents and disclose accurate maximum daily - observed was approximately 250 gallons. Additionally, waste paint observed was in excess of disclosed quantity at 165 gallons. Facility shall update inventory and resubmit to this agency.
Violation Division: Fullerton City Fire Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 411407
Site Name: ORORA VISUAL ORANGE COUNTY
Violation Date: 07-14-2016
Citation: 22 CCR 12 66262.12 - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.12
Violation Description: Failure to obtain an Identification Number prior to treating, storing, disposing of, transporting or offering for transportation any hazardous waste.
Violation Notes: Returned to compliance on 07/14/2016. The EPA ID number that was used to ship waste on 4/25/16 for Graphic Tech is inactive as of 5/13/2011. The silver waste and the solvent waste was shipped using inactive EPA ID number. Please re-activate EPA ID number prior to shipping hazardous waste.
Violation Division: Orange County Environmental Health

GRAPHICS 2000 (Continued) **S104580286**

Violation Program: HW
Violation Source: CERS

Evaluation:

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-10-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: VIOLATION NOTED
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-13-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: INSPECTOR COMMENTS Orora Visual Orange County 1600 E Valencia Drive Fullerton, CA 92831 Facility has just gone through an ownership change and they are in the process of updating their EPA ID#. On site for a change of ownership hazardous waste inspection. Consent to inspect and take any necessary photos was given by John Rigney, general manager. Walked throughout the facility. Observed hazardous waste storage areas. Facility is a digital print shop, they generate a very small amount of silver recovery photo waste. Containers were closed and properly labeled. Manifests were not available and reviewed, facility has not had any waste hauled since the change of ownership. Employees are reported to be trained. Emergency plan is posted near the front office area. The dumpster was observed, no signs of dumping. Ownership and employee count were confirmed facility is owned by orora packaging and have 87 employees.
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 07-14-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-30-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Violation noted.
Eval Division: Fullerton City Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-14-2016
Violations Found: Yes
Eval Type: Routine done by local agency

GRAPHICS 2000 (Continued) **S104580286**

Eval Notes: 7/14/16 - Graphic Tech Inc On site to conduct a routine hazardous a routine hazardous waste inspection. Consent to enter, inspect and take any necessary photos was given by Director of digital operations, Jimmy Chang at 2:45 pm. The hazardous waste containers found here: - Silver Waste = 100 pounds - Fluorescent light bulbs = 80 items - Solvent mixture = 110 gallons All containers of hazardous waste were covered and but not labeled. Manifests were available and were reviewed and waste was picked up by Safety Kleen. Walked the perimeter of the site, and there were no hazardous waste spills or discharges observed during this inspection. Emergency response sticker with the necessary information was posted inside the break room. The 40 yard bins were visually inspected no hazardous waste was observed. Large recycle bins within the screen printing warehouse had labels that told the employees to only dispose paper waste. The weekly inspections are by [Truncated]
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-11-2015
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Fullerton City Fire Department
Eval Program: HMRRP
Eval Source: CERS

Enforcement Action:
Site ID: 411407
Site Name: ORORA VISUAL ORANGE COUNTY
Site Address: 1600 E VALENCIA DR
Site City: FULLERTON
Site Zip: 92831
Enf Action Date: 01-10-2014
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: Orange County Environmental Health
Enf Action Program: HMRRP
Enf Action Source: CERS

Coordinates:
Site ID: 411407
Facility Name: ORORA VISUAL ORANGE COUNTY
Env Int Type Code: HMBP
Program ID: 10518484
Coord Name: Not reported
Ref Point Type Desc: Center of a facility or station.
Latitude: 33.865830
Longitude: -117.899040

Affiliation:
Affiliation Type Desc: CUPA District
Entity Name: Orange County Env Health
Entity Title: Not reported

GRAPHICS 2000 (Continued) **S104580286**

Affiliation Address:	1241 East Dyer RoadSuite 120
Affiliation City:	Santa Ana
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92705-5611
Affiliation Phone:	(714) 433-6000

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	1600 E VALENCIA DR
Affiliation City:	FULLERTON
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92831
Affiliation Phone:	Not reported

Affiliation Type Desc:	Identification Signer
Entity Name:	John Rigney
Entity Title:	Director of Operations
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Environmental Contact
Entity Name:	John Rigney
Entity Title:	Not reported
Affiliation Address:	1600 E. Valencia Drive
Affiliation City:	Fullerton
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92831
Affiliation Phone:	Not reported

Affiliation Type Desc:	Legal Owner
Entity Name:	ORORA VISUAL ORANGE COUNTY
Entity Title:	Not reported
Affiliation Address:	1600 E VALENCIA DR
Affiliation City:	FULLERTON
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92831
Affiliation Phone:	(714) 879-2400

Affiliation Type Desc:	Operator
Entity Name:	John Rigney
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(714) 879-2400

GRAPHICS 2000 (Continued) **S104580286**

Affiliation Type Desc:	Parent Corporation
Entity Name:	ORORA VISUAL ORANGE COUNTY
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Document Preparer
Entity Name:	John Rigney
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

174
SW
1/2-1
0.947 mi.
5000 ft.

Relative:
Lower

Actual:
182 ft.

KRAFT FOODS
1500 E WALNUT AVE
FULLERTON, CA 92831

CA ENVIROSTOR **S103973702**
CA CERS HAZ WASTE **N/A**
CA HAZNET
CA NPDES
CA CIWQS
CA CERS

ENVIROSTOR:

Facility ID:	60001515
Status:	No Further Action
Status Date:	12/07/2012
Site Code:	401589
Site Type:	Evaluation
Site Type Detailed:	Evaluation
Acres:	5.2
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Not reported
Supervisor:	Eileen Mananian
Division Branch:	Cleanup Cypress
Assembly:	65
Senate:	29
Special Program:	EPA - PASI
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	EPA Grant
Latitude:	33.86785
Longitude:	-117.9012
APN:	NONE SPECIFIED
Past Use:	LANDFILL - DOMESTIC
Potential COC:	Benzene Chloroform Toluene
Confirmed COC:	Benzene Toluene Chloroform
Potential Description:	OTH, SOIL, WELL
Alias Name:	401589
Alias Type:	Project Code (Site Code)
Alias Name:	60001515

KRAFT FOODS (Continued) **S103973702**

Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: PA/SI Site Screening
Completed Date: 12/21/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: PA/SI Site Screening
Completed Date: 10/31/2012
Comments: USEPA final and signed

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

CERS HAZ WASTE:
Site ID: 375657
CERS ID: 10518796
CERS Description: Hazardous Waste Generator

Violations:
Site ID: 375657
Site Name: KRAFT FOOD GROUPS INC
Violation Date: 01-25-2017
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes: Returned to compliance on 11/20/2017. Facility's observed lube/hydraulic oil and waste oil inventory in excess of reported inventory. Facility shall reduce quantities to reflect reported quantities or revise/resubmit chemical inventory.
Violation Division: Fullerton City Fire Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 375657
Site Name: KRAFT FOOD GROUPS INC
Violation Date: 01-25-2017
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit a site map with all required content.
Violation Notes: Returned to compliance on 11/20/2017. Facility's site map does not distinguish between parcel 1450 and 1500 E Walnut. Facility shall revise and resubmit site map that distinguishes between parcels.
Violation Division: Fullerton City Fire Department

KRAFT FOODS (Continued) **S103973702**

Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	375657
Site Name:	KRAFT FOOD GROUPS INC
Violation Date:	05-03-2016
Citation:	HSC 6.95 Multiple - California Health and Safety Code, Chapter 6.95, Section(s) Multiple
Violation Description:	Business Plan Program - Administration/Documentation - General
Violation Notes:	Returned to compliance on 08/23/2016. 5-3-16 annual update required. 8-23-16 annual update accepted.
Violation Division:	Fullerton City Fire Department
Violation Program:	HMRRP
Violation Source:	CERS

Evaluation:

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	01-25-2017
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	Fullerton City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	03-26-2019
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	On site for closeout inspection, notified by Orange County Wholesale Foods Department of facility closure. Business is closed and for sale signs are posted on property. Unable to obtain closure date, per Wholesale facility closed in 12/2018. Changing billing status to 02.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	09-06-2013
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Violation check shows the following violation(s) outstanding. Review file: Waste determination request on the 6-29-12 inspection appears not to have been completed. Will review with HCA/Sutphin to determine if this was done or not. Called Kraft/Morales EH&S. Left VM.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	11-15-2013
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	VM from Morales. Wants the re set date for 11-20-13. I called back. That was not one of the dates I was available. Gave him 5 more possible dates and requested a call back. He called back. We set the date for 11-25-13/0900.

KRAFT FOODS (Continued) **S103973702**

Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	11-22-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Attempted to inspect, was informed plant shuts down for the week of thanksgiving and the week of christmas!
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	05-28-2014
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	NO VIOLATIONS OBSERVED - Eps also performed the Life safety inspection
Eval Division:	Orange County Environmental Health
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	12-10-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	CERS review: Accept BA/OW pages
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	05-03-2016
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	5-3-16 annual update required. 8-24-16 annual update accepted.
Eval Division:	Fullerton City Fire Department
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	09-30-2013
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Called Kraft and left a VM to discuss the outstanding violation from the last HW inspection.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	11-12-2013
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Morales left a VM that he cannot make the 11-15-13 inspection. Called him back. Left more dates.

KRAFT FOODS (Continued) **S103973702**

Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	11-20-2017
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	CERS OW/BA X 3
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	09-01-2015
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Ownership change from Kraft Heinz to Kraft-Heinz. Submit change of ownership paperwork.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	09-10-2013
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	VM from Veronica (714-626-2766) returning my call regarding the past due violation. Called her back. Left a VM.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	10-04-2013
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Called Morales. No need for inspection, just need to clarify the RCRA vs CALIF waste oil classification.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	10-30-2013
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Called Morales. Left VM.
Eval Division:	Orange County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	11-25-2013
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	On site for the annual hazardous waste (HW) inspection. Permission to

KRAFT FOODS (Continued) **S103973702**

inspect granted by Kraft/Carlos Morales. The facility is a packager of Kraft packaged meals. No food is processed at this site, only packaging. Most HWs are from machinery maintenance, refrigerant oil and E-wastes. The lead acid batteries and diesel fuel waste were one time wastes and are deleted on this inspection. This year had a one time generation of heavy metal liquid waste from a storage area clean out. Due to process changes and waste minimization, several HWs (waste oil and alcohol based inks have been reduced significantly). The facility is a small quantity generator (SQG) however, the facility maintains a 90 day disposal cycle. No SB 14 required. All manifests were reviewed and complete. All generator and TSDF copies were on site. All HW drums were stored closed, in secondary containment areas and labeled properly with accumulation dates. All HMBEP were submitted with [Truncated]

Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-28-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: INSPECTOR COMMENTS On site for a routine hazardous waste inspection. Consent to inspect was given by Veronica Chaidez, ORM manager. Walked throughout the facility. Observed hazardous waste storage areas. Containers were closed and properly labeled. Manifests were available and reviewed. Employees are reported to be trained. Emergency plan is posted in the maintenance office. The dumpster/enclosure was observed, no signs of dumping.
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Coordinates:
Site ID: 375657
Facility Name: KRAFT FOOD GROUPS INC
Env Int Type Code: HWG
Program ID: 10518796
Coord Name: Not reported
Ref Point Type Desc: Center of a facility or station.
Latitude: 33.867680
Longitude: -117.901270

Affiliation:
Affiliation Type Desc: Document Preparer
Entity Name: Veronica Chaidez
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Operator
Entity Name: Kraft Foods Group Inc.

KRAFT FOODS (Continued) **S103973702**

Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(714) 626-2776

Affiliation Type Desc:	Parent Corporation
Entity Name:	KRAFT FOOD GROUPS INC
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	CUPA District
Entity Name:	Orange County Env Health
Entity Title:	Not reported
Affiliation Address:	1241 East Dyer RoadSuite 120
Affiliation City:	Santa Ana
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92705-5611
Affiliation Phone:	(714) 433-6000

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	1500 East Walnut Ave
Affiliation City:	Fullerton
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92831
Affiliation Phone:	Not reported

Affiliation Type Desc:	Identification Signer
Entity Name:	Veronica Chaidez
Entity Title:	ORM Manager
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Environmental Contact
Entity Name:	Veronica Chaidez
Entity Title:	Not reported
Affiliation Address:	1500 East Walnut Ave
Affiliation City:	Fullerton
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92831
Affiliation Phone:	Not reported

KRAFT FOODS (Continued) **S103973702**

Affiliation Type Desc:	Legal Owner
Entity Name:	Kraft Foods Group Inc.
Entity Title:	Not reported
Affiliation Address:	1500 E. Walnut Ave
Affiliation City:	Fullerton
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92831
Affiliation Phone:	(714) 626-2776

Affiliation Type Desc:	Property Owner
Entity Name:	Kraft Heinz Company
Entity Title:	Not reported
Affiliation Address:	1500 E WALNUT AVE
Affiliation City:	FULLERTON
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92831
Affiliation Phone:	(714) 626-2766

HAZNET:

Site Name:	KRAFT FOODS
Year:	2009
GEPAID:	CAC002647481
Contact:	BOB FOWLKES
Telephone:	7149366788
Mailing Name:	Not reported
Mailing Address:	1500 E WALNUT AVE
Mailing City,St,Zip:	FULLERTON, CA 92831
Gen County:	Orange
TSD EPA ID:	CAD059494310
TSD County:	Santa Clara
Tons:	0.4587
CA Waste Code:	352-Other organic solids
Method:	H141-Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County:	Orange

NPDES:

Facility Status:	Not reported
NPDES Number:	Not reported
Region:	Not reported
Agency Number:	Not reported
Regulatory Measure ID:	Not reported
Place ID:	Not reported
Order Number:	Not reported
WDID:	8 30I000607
Regulatory Measure Type:	Industrial
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	Not reported
Discharge Name:	Not reported

KRAFT FOODS (Continued) **S103973702**

Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Status:	Active
Status Date:	03/16/1992
Operator Name:	Kraft Foods
Operator Address:	1500 E Walnut Ave
Operator City:	Fullerton
Operator State:	California
Operator Zip:	92831

NPDES as of 03/2018:

NPDES Number:	CAS000001
Status:	Active
Agency Number:	0
Region:	8
Regulatory Measure ID:	208158
Order Number:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	8 30I000607
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	03/16/1992
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Kraft Foods
Discharge Address:	1500 E Walnut Ave
Discharge City:	Fullerton
Discharge State:	California
Discharge Zip:	92831
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported

KRAFT FOODS (Continued) **S103973702**

Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported
NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported
Region:	8
Regulatory Measure ID:	208158
Order Number:	Not reported
Regulatory Measure Type:	Industrial
Place ID:	Not reported
WDID:	8 30I000607
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Received Date:	05/09/2008
Processed Date:	03/16/1992
Status:	Active
Status Date:	03/16/1992
Place Size:	238648
Place Size Unit:	SqFt
Contact:	Veronica Chaidez
Contact Title:	SSE Manager

KRAFT FOODS (Continued) **S103973702**

Contact Phone:	714-626-2776
Contact Phone Ext:	Not reported
Contact Email:	veronica.chaidez@kraftfoods.com
Operator Name:	Kraft Foods
Operator Address:	1500 E Walnut Ave
Operator City:	Fullerton
Operator State:	California
Operator Zip:	92831
Operator Contact:	Victor Cortez
Operator Contact Title:	SSE Coordinator
Operator Contact Phone:	714-626-2710
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	victor.cortez@kraftheinzcompany.com
Operator Type:	Private Business
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	California
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	310-488-5310
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	N
Receiving Water Name:	Santa Ana River
Certifier:	Veronica Chaidez
Certifier Title:	SSE Manager
Certification Date:	15-JUN-17
Primary Sic:	2013-Sausages and Other Prepared Meats
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

Facility Status:	Active
NPDES Number:	CAS000001
Region:	8
Agency Number:	0
Regulatory Measure ID:	208158
Place ID:	Not reported
Order Number:	97-03-DWQ

KRAFT FOODS (Continued) **S103973702**

WDID:	8 30I000607
Regulatory Measure Type:	Enrollee
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	03/16/1992
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	1500 E Walnut Ave
Discharge Name:	Kraft Foods
Discharge City:	Fullerton
Discharge State:	California
Discharge Zip:	92831
Status:	Not reported
Status Date:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported

NPDES as of 03/2018:

NPDES Number:	CAS000001
Status:	Active
Agency Number:	0
Region:	8
Regulatory Measure ID:	208158
Order Number:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	8 30I000607
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	03/16/1992
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Kraft Foods
Discharge Address:	1500 E Walnut Ave
Discharge City:	Fullerton
Discharge State:	California
Discharge Zip:	92831
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported

KRAFT FOODS (Continued) **S103973702**

Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported
NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported
Region:	8
Regulatory Measure ID:	208158
Order Number:	Not reported
Regulatory Measure Type:	Industrial
Place ID:	Not reported
WDID:	8 30I000607
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported

KRAFT FOODS (Continued) **S103973702**

Discharge Zip:	Not reported
Received Date:	05/09/2008
Processed Date:	03/16/1992
Status:	Active
Status Date:	03/16/1992
Place Size:	238648
Place Size Unit:	SqFt
Contact:	Veronica Chaidez
Contact Title:	SSE Manager
Contact Phone:	714-626-2776
Contact Phone Ext:	Not reported
Contact Email:	veronica.chaidez@kraftfoods.com
Operator Name:	Kraft Foods
Operator Address:	1500 E Walnut Ave
Operator City:	Fullerton
Operator State:	California
Operator Zip:	92831
Operator Contact:	Victor Cortez
Operator Contact Title:	SSE Coordinator
Operator Contact Phone:	714-626-2710
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	victor.cortez@kraftheinzcompany.com
Operator Type:	Private Business
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	California
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	310-488-5310
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	N
Receiving Water Name:	Santa Ana River
Certifier:	Veronica Chaidez
Certifier Title:	SSE Manager
Certification Date:	15-JUN-17
Primary Sic:	2013-Sausages and Other Prepared Meats
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

KRAFT FOODS (Continued) **S103973702**

CIWQS:

Agency:	Kraft Foods
Agency Address:	1500 E Walnut Ave, Fullerton, CA 92831
Place/Project Type:	Industrial - Sausages and Other Prepared Meats
SIC/NAICS:	2013
Region:	8
Program:	INDSTW
Regulatory Measure Status:	Active
Regulatory Measure Type:	Storm water industrial
Order Number:	2014-0057-DWQ
WDID:	8 30I000607
NPDES Number:	CAS000001
Adoption Date:	Not reported
Effective Date:	03/16/1992
Termination Date:	Not reported
Expiration/Review Date:	Not reported
Design Flow:	Not reported
Major/Minor:	Not reported
Complexity:	Not reported
TTWQ:	Not reported
Enforcement Actions within 5 years:	6
Violations within 5 years:	5
Latitude:	33.86837
Longitude:	-117.9017

CERS TANKS:

Site ID:	476122
CERS ID:	225557
Site Name:	KRAFT FOODS
CERS Description:	Industrial Facility Storm Water

Violations:

Site ID:	476122
Site Name:	Kraft Foods
Violation Date:	05-06-2010
Citation:	2014-0057-DWQ - Industrial General Permit
Violation Description:	SW - Deficient BMP Implementation
Violation Notes:	One of three biocide cartidges found on roof, open to storm water. Track out of battery-acid found outside of ramp from enclosed charging station area. Emergency shower inside of charging area threatens to wash acid outside. Staining beneath trash compactor along with nearby roof drains and emergency shower threaten to wash the pollutants away.
Violation Division:	Water Boards
Violation Program:	INDSTW
Violation Source:	SMARTS

Site ID:	476122
Site Name:	Kraft Foods
Violation Date:	07-02-2011
Citation:	2014-0057-DWQ - Industrial General Permit
Violation Description:	SW - Late Report
Violation Notes:	Failure to submit 2010-2011 Annual Report by 7/1/11 due date.
Violation Division:	Water Boards
Violation Program:	INDSTW
Violation Source:	SMARTS

Site ID:	476122

KRAFT FOODS (Continued) **S103973702**

Site Name: Kraft Foods
Violation Date: 07-01-2005
Citation: 2014-0057-DWQ - Industrial General Permit
Violation Description: SW - Late Report
Violation Notes: Failure to submit 04-05 Annual Report by 7/1/05.
Violation Division: Water Boards
Violation Program: INDSTW
Violation Source: SMARTS

Site ID: 476122
Site Name: Kraft Foods
Violation Date: 07-02-2008
Citation: 2014-0057-DWQ - Industrial General Permit
Violation Description: SW - Late Report
Violation Notes: Failure to submit 07-08 Annual Report by July 1 deadline.
Violation Division: Water Boards
Violation Program: INDSTW
Violation Source: SMARTS

Site ID: 476122
Site Name: Kraft Foods
Violation Date: 12-19-2012
Citation: 2014-0057-DWQ - Industrial General Permit
Violation Description: SW - Deficient BMP Implementation
Violation Notes: Ineffective spill response. Employees allowed a spill to dry without attempting to clean it.
Violation Division: Water Boards
Violation Program: INDSTW
Violation Source: SMARTS

Site ID: 476122
Site Name: Kraft Foods
Violation Date: 07-02-2014
Citation: 2014-0057-DWQ - Industrial General Permit
Violation Description: SW - Late Report
Violation Notes: Faliure to submit 2013-2014 Annual Report
Violation Division: Water Boards
Violation Program: INDSTW
Violation Source: SMARTS

Site ID: 476122
Site Name: Kraft Foods
Violation Date: 01-20-1994
Citation: 2014-0057-DWQ - Industrial General Permit
Violation Description: SW - Deficient Report
Violation Notes: Deficient 1992-1993 Annual Report
Violation Division: Water Boards
Violation Program: INDSTW
Violation Source: SMARTS

Site ID: 476122
Site Name: Kraft Foods
Violation Date: 08-15-2015
Citation: 2014-0057-DWQ - Industrial General Permit
Violation Description: SW - Late Report
Violation Notes: Failure to submit 2014 - 2015 Annual Report by due date
Violation Division: Water Boards

KRAFT FOODS (Continued) **S103973702**

Violation Program: INDSTW
Violation Source: SMARTS

Site ID: 476122
Site Name: Kraft Foods
Violation Date: 03-19-2008
Citation: 2014-0057-DWQ - Industrial General Permit
Violation Description: SW - Failure to Pay Enforcement Fee
Violation Notes: Facility open and operational. Enforcement letter to be sent to address unpaid invoices.
Violation Division: Water Boards
Violation Program: INDSTW
Violation Source: SMARTS

Site ID: 476122
Site Name: Kraft Foods
Violation Date: 07-16-2016
Citation: 2014-0057-DWQ - Industrial General Permit
Violation Description: SW - Late Report
Violation Notes: Failure to submit 2015 - 2016 Annual Report by due date
Violation Division: Water Boards
Violation Program: INDSTW
Violation Source: SMARTS

Site ID: 476122
Site Name: Kraft Foods
Violation Date: 03-05-2019
Citation: 2014-0057-DWQ - Industrial General Permit
Violation Description: SW - Late Report
Violation Notes: Failure to submit the Level 1 ERA Report by due date.
Violation Division: Water Boards
Violation Program: INDSTW
Violation Source: SMARTS

Site ID: 476122
Site Name: Kraft Foods
Violation Date: 05-06-2010
Citation: 2014-0057-DWQ - Industrial General Permit
Violation Description: Unauthorized Discharge
Violation Notes: Compressor blow-down is plumbed to an oil-water separator located at back-central area of building. The separator discharges the treated water to the parking lot. Observed water dripping from the discharge line onto the asphalt.
Violation Division: Water Boards
Violation Program: INDSTW
Violation Source: SMARTS

Site ID: 476122
Site Name: Kraft Foods
Violation Date: 07-16-2018
Citation: 2014-0057-DWQ - Industrial General Permit
Violation Description: SW - Late Report
Violation Notes: Failure to submit 2017 - 2018 Annual Report by due date
Violation Division: Water Boards
Violation Program: INDSTW
Violation Source: SMARTS

KRAFT FOODS (Continued) **S103973702**

Site ID:	476122
Site Name:	Kraft Foods
Violation Date:	01-15-2015
Citation:	2014-0057-DWQ - Industrial General Permit
Violation Description:	SW - Deficient Report
Violation Notes:	Deficient 2013-2014 Annual Report
Violation Division:	Water Boards
Violation Program:	INDSTW
Violation Source:	SMARTS

Site ID:	476122
Site Name:	Kraft Foods
Violation Date:	08-23-2010
Citation:	2014-0057-DWQ - Industrial General Permit
Violation Description:	Unauthorized Discharge
Violation Notes:	Oberserve staining on asphalt leading from a mechanical room door where chiller equipment is located. Contact stated that the chillers had been maintained and washed down. Contact stated that City staff also told them that the discharge is not allowed: 'only storm water' is allowed. Contact stated that they would clean up the staining.
Violation Division:	Water Boards
Violation Program:	INDSTW
Violation Source:	SMARTS

Evaluation:

Eval General Type:	Other/Unknown
Eval Date:	03-19-2009
Violations Found:	Yes
Eval Type:	Construction Storm Water Compliance Evaluation
Eval Notes:	Regional Board staff conducted a drive-by inspection of the above facility on March 19, 2009. All industrial activities seem to remain the same and the facility is open for business. An enforcement letter will be sent to the facility notifying them to pay any outstanding invoices or be administratively terminated.
Eval Division:	Water Boards
Eval Program:	INDSTW
Eval Source:	SMARTS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	05-06-2010
Violations Found:	Yes
Eval Type:	Industrial Storm Water Compliance Evaluation
Eval Notes:	Observed shed where electrical material handling equipment is charged. Bay door is open and inside is an emergency shower with no floor drain. Floor is corroded and dry battery acid is visible along with track-out to ramp leading outside. Contact indicated this area is to be remodeled. Observed 2 scrap metal bins; one with hinged lid, other with no lid. Hinged bin couldn't be closed since large oversized cardboard placed inside prevented this. Other bin contained an unidentified powder at the bottom. Outdoor trash compactor has much staining beneath it; used to wash this area but told not to by fire dept. inspectors. Area is still subject to rainfall, a roof downspout is nearby along with another emergency shower. Observed an oil-water separator dripping water onto parking area asphalt. Separator treats compressor blow-down. Three biocide cartridges on roof; one is open and exposed. SWPPP doesn't show all outdoor industrial process with related BMPs; needs to be updated according to Section A of Permit.

KRAFT FOODS (Continued) **S103973702**

Eval Division: Water Boards
Eval Program: INDSTW
Eval Source: SMARTS

Eval General Type: Case Development Inspection
Eval Date: 08-23-2010
Violations Found: Yes
Eval Type: Industrial Storm Water Enforcement Follow-up
Eval Notes: Battery charging room and ramp are cleaner; contact explained that the floor had been washed and the rinsate collected for disposal. Trash compactor area is also cleaner; discussed relocating roof downdrain away from this area and removing the nearby emergency shower. Contact showed oil absorbent pads that had been purchased for leaking equipment. Scrap metal bins found with closed lids and air compressor has been plumbed to drain to a bucket for manual disposal; a sump/pump is planned for later. Found staining on asphalt leading from mechanical room containing chillers; contact stated that the chillers had been cleaned during routine maintenance. Contact stated that they had also been informed by City inspectors that this discharge was not allowed; Contact was informed that this was a prohibited discharge and a violation. Contact stated that they'll clean up the staining. Outside area is generally neat and orderly.
Eval Division: Water Boards
Eval Program: INDSTW
Eval Source: SMARTS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-20-2012
Violations Found: Yes
Eval Type: Industrial Storm Water Compliance Evaluation
Eval Notes: Weather: Sunny and cool. SWPPP dated 6/2/1991; updated 4/7/2010. Results for storm water samples taken 11/28/2012 show SC of 6100 and 5720 and pH of 2.03 and 2.07 respectively for discharges at the SE and SW drainage points. Contact was unable to explain the results. Inspection showed no obvious causes but potential pollutant sources are present. Site was found generally neat and orderly except for dried spill of white liquid at south-central personnel door.
Eval Division: Water Boards
Eval Program: INDSTW
Eval Source: SMARTS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-14-2001
Violations Found: No
Eval Type: Industrial Storm Water Compliance Evaluation
Eval Notes: The AR 99/00 did not include lab reports. The results were within the benchmark range. The facility was clean with no storage or activities outddor. Some minor housekeeping was needed at the sampling point near the rear of the facility.
Eval Division: Water Boards
Eval Program: INDSTW
Eval Source: SMARTS

Enforcement Action:
Site ID: 476122
Site Name: Kraft Foods
Site Address: 1500 E WALNUT AVE

KRAFT FOODS (Continued) **S103973702**

Site City:	FULLERTON
Site Zip:	92831
Enf Action Date:	01-15-2015
Enf Action Type:	Staff Enforcement Letter
Enf Action Description:	Staff Enforcement Letter
Enf Action Notes:	2013-2014 Annual Report requires revision
Enf Action Division:	Water Boards
Enf Action Program:	INDSTW
Enf Action Source:	SMARTS

Site ID:	476122
Site Name:	Kraft Foods
Site Address:	1500 E WALNUT AVE
Site City:	FULLERTON
Site Zip:	92831
Enf Action Date:	01-20-1994
Enf Action Type:	Staff Enforcement Letter
Enf Action Description:	Staff Enforcement Letter
Enf Action Notes:	1992-1993 Annual Report requires revision
Enf Action Division:	Water Boards
Enf Action Program:	INDSTW
Enf Action Source:	SMARTS

Site ID:	476122
Site Name:	Kraft Foods
Site Address:	1500 E WALNUT AVE
Site City:	FULLERTON
Site Zip:	92831
Enf Action Date:	03-05-2019
Enf Action Type:	Staff Enforcement Letter
Enf Action Description:	Staff Enforcement Letter
Enf Action Notes:	Issued a Notice of Violation for not submitting the Level 1 ERA Report by January 1st.
Enf Action Division:	Water Boards
Enf Action Program:	INDSTW
Enf Action Source:	SMARTS

Site ID:	476122
Site Name:	Kraft Foods
Site Address:	1500 E WALNUT AVE
Site City:	FULLERTON
Site Zip:	92831
Enf Action Date:	03-24-2009
Enf Action Type:	Staff Enforcement Letter
Enf Action Description:	Staff Enforcement Letter
Enf Action Notes:	Facility open and operational. Enforcement letter to be sent to address unpaid invoices.
Enf Action Division:	Water Boards
Enf Action Program:	INDSTW
Enf Action Source:	SMARTS

Site ID:	476122
Site Name:	Kraft Foods
Site Address:	1500 E WALNUT AVE
Site City:	FULLERTON
Site Zip:	92831
Enf Action Date:	05-11-2010

KRAFT FOODS (Continued) **S103973702**

Enf Action Type:	Staff Enforcement Letter
Enf Action Description:	Staff Enforcement Letter
Enf Action Notes:	Requested to: implement BMPs to minimize exposure of biocide, battery acid, liquid wastes, oil, and scrap bin contents to storm water; eliminate compressor blow-down discharge; update SWPPP.
Enf Action Division:	Water Boards
Enf Action Program:	INDSTW
Enf Action Source:	SMARTS

Site ID:	476122
Site Name:	Kraft Foods
Site Address:	1500 E WALNUT AVE
Site City:	FULLERTON
Site Zip:	92831
Enf Action Date:	07-15-2005
Enf Action Type:	Industrial Storm Water Enforcement
Enf Action Description:	Industrial Storm Water Enforcement
Enf Action Notes:	Failure to submit 04-05 Annual Report by 7/1/05.
Enf Action Division:	Water Boards
Enf Action Program:	INDSTW
Enf Action Source:	SMARTS

Site ID:	476122
Site Name:	Kraft Foods
Site Address:	1500 E WALNUT AVE
Site City:	FULLERTON
Site Zip:	92831
Enf Action Date:	07-31-2014
Enf Action Type:	Industrial Storm Water Enforcement
Enf Action Description:	Industrial Storm Water Enforcement
Enf Action Notes:	Faliure to submit 2013-2014 Annual Report
Enf Action Division:	Water Boards
Enf Action Program:	INDSTW
Enf Action Source:	SMARTS

Site ID:	476122
Site Name:	Kraft Foods
Site Address:	1500 E WALNUT AVE
Site City:	FULLERTON
Site Zip:	92831
Enf Action Date:	08-01-2008
Enf Action Type:	Notice of Non-Compliance for Non-Filers
Enf Action Description:	Notice of Non-Compliance for Non-Filers
Enf Action Notes:	Failure to submit 07-08 Annual Report by July 1 deadline.
Enf Action Division:	Water Boards
Enf Action Program:	INDSTW
Enf Action Source:	SMARTS

Site ID:	476122
Site Name:	Kraft Foods
Site Address:	1500 E WALNUT AVE
Site City:	FULLERTON
Site Zip:	92831
Enf Action Date:	08-01-2011
Enf Action Type:	Industrial Storm Water Enforcement
Enf Action Description:	Industrial Storm Water Enforcement
Enf Action Notes:	Failure to submit 2010-2011 Annual Report by 7/1/11 due date.

KRAFT FOODS (Continued) **S103973702**

Enf Action Division:	Water Boards
Enf Action Program:	INDSTW
Enf Action Source:	SMARTS

Site ID:	476122
Site Name:	Kraft Foods
Site Address:	1500 E WALNUT AVE
Site City:	FULLERTON
Site Zip:	92831
Enf Action Date:	08-01-2016
Enf Action Type:	Industrial Storm Water Enforcement
Enf Action Description:	Industrial Storm Water Enforcement
Enf Action Notes:	Failure to submit 2015-2016 Annual Report by due date
Enf Action Division:	Water Boards
Enf Action Program:	INDSTW
Enf Action Source:	SMARTS

Site ID:	476122
Site Name:	Kraft Foods
Site Address:	1500 E WALNUT AVE
Site City:	FULLERTON
Site Zip:	92831
Enf Action Date:	08-01-2018
Enf Action Type:	Industrial Storm Water Enforcement
Enf Action Description:	Industrial Storm Water Enforcement
Enf Action Notes:	Failure to submit 2017-2018 Annual Report by due date.
Enf Action Division:	Water Boards
Enf Action Program:	INDSTW
Enf Action Source:	SMARTS

Site ID:	476122
Site Name:	Kraft Foods
Site Address:	1500 E WALNUT AVE
Site City:	FULLERTON
Site Zip:	92831
Enf Action Date:	08-10-2005
Enf Action Type:	Industrial Storm Water Enforcement
Enf Action Description:	Industrial Storm Water Enforcement
Enf Action Notes:	A clerical error at the Regional Board office resulted in an incorrect Notice of Non-Compliance being issued.
Enf Action Division:	Water Boards
Enf Action Program:	INDSTW
Enf Action Source:	SMARTS

Site ID:	476122
Site Name:	Kraft Foods
Site Address:	1500 E WALNUT AVE
Site City:	FULLERTON
Site Zip:	92831
Enf Action Date:	08-23-2010
Enf Action Type:	Industrial Storm Water Enforcement
Enf Action Description:	Industrial Storm Water Enforcement
Enf Action Notes:	Explained that the discharge of wastewater from cleaning chillers is a violation under the Industrial SW Permit.
Enf Action Division:	Water Boards
Enf Action Program:	INDSTW
Enf Action Source:	SMARTS

KRAFT FOODS (Continued) **S103973702**

Site ID:	476122
Site Name:	Kraft Foods
Site Address:	1500 E WALNUT AVE
Site City:	FULLERTON
Site Zip:	92831
Enf Action Date:	08-30-2011
Enf Action Type:	Industrial Storm Water Enforcement
Enf Action Description:	Industrial Storm Water Enforcement
Enf Action Notes:	Failure to submit 2010-2011 Annual Report by July 1, 2011 due date. SECOND NOTICE
Enf Action Division:	Water Boards
Enf Action Program:	INDSTW
Enf Action Source:	SMARTS

Site ID:	476122
Site Name:	Kraft Foods
Site Address:	1500 E WALNUT AVE
Site City:	FULLERTON
Site Zip:	92831
Enf Action Date:	08-30-2016
Enf Action Type:	Industrial Storm Water Enforcement
Enf Action Description:	Industrial Storm Water Enforcement
Enf Action Notes:	Failure to submit 2015-2016 Annual Report by 7/15/16. SECOND NOTICE.
Enf Action Division:	Water Boards
Enf Action Program:	INDSTW
Enf Action Source:	SMARTS

Site ID:	476122
Site Name:	Kraft Foods
Site Address:	1500 E WALNUT AVE
Site City:	FULLERTON
Site Zip:	92831
Enf Action Date:	09-03-2015
Enf Action Type:	Industrial Storm Water Enforcement
Enf Action Description:	Industrial Storm Water Enforcement
Enf Action Notes:	Failure to submit 2014-2015 Annual Report by due date
Enf Action Division:	Water Boards
Enf Action Program:	INDSTW
Enf Action Source:	SMARTS

Site ID:	476122
Site Name:	Kraft Foods
Site Address:	1500 E WALNUT AVE
Site City:	FULLERTON
Site Zip:	92831
Enf Action Date:	12-21-2012
Enf Action Type:	Industrial Storm Water Enforcement
Enf Action Description:	Industrial Storm Water Enforcement
Enf Action Notes:	Contact was instructed that spills should be cleaned promptly, particularly during the wet season.
Enf Action Division:	Water Boards
Enf Action Program:	INDSTW
Enf Action Source:	SMARTS

Site ID:	476122
Site Name:	Kraft Foods
Site Address:	1500 E WALNUT AVE

KRAFT FOODS (Continued) **S103973702**

Site City:	FULLERTON
Site Zip:	92831
Enf Action Date:	12-28-2012
Enf Action Type:	Notice of Violation
Enf Action Description:	Notice of Violation
Enf Action Notes:	Notice of violations of Basin Plan Prohibition on discharges of excessively saline waste and failure to reduce pollutants using BAT/BCT.
Enf Action Division:	Water Boards
Enf Action Program:	INDSTW
Enf Action Source:	SMARTS

Affiliation:

Affiliation Type Desc:	Owner/Operator
Entity Name:	Kraft Foods
Entity Title:	Operator
Affiliation Address:	1500 E Walnut Ave
Affiliation City:	Fullerton
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92831
Affiliation Phone:	Not reported

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175 SSW 1/2-1 0.949 mi. 5012 ft. **NORTH OC SITE DISCOVERY** **CA ENVIROSTOR** **S118757244**
GENERALLY BOUNDED N BY E. WALNUT AVE., W BY S. RAYMOND AVE., **N/A**
FULLERTON, CA 92831

Relative: Lower
Actual: 185 ft.

ENVIROSTOR:

Facility ID:	60001545
Status:	No Action Required
Status Date:	05/03/2011
Site Code:	Not reported
Site Type:	Evaluation
Site Type Detailed:	Evaluation
Acres:	200
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Not reported
Supervisor:	Eileen Mananian
Division Branch:	Cleanup Cypress
Assembly:	72
Senate:	29
Special Program:	EPA - PASI
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	EPA Grant
Latitude:	33.86603
Longitude:	-117.8981
APN:	NONE SPECIFIED
Past Use:	AEROSPACE MANUFACTURING/MAINTENANCE, BATTERY MANUFACTURING, MANUFACTURING - ELECTRONIC, MANUFACTURING - METAL, MANUFACTURING - OTHER, METAL FINISHING, METAL PLATING - OTHER
Potential COC:	Perchlorate Tetrachloroethylene (PCE Trichloroethylene (TCE

NORTH OC SITE DISCOVERY (Continued) **S118757244**

1,1-Dichloroethylene 1,2-Dichloroethylene (cis 1,2-Dichloroethylene
(trans 1,4-Dioxane Nitrate
Confirmed COC: NONE SPECIFIED
Potential Description: OTH, SV, WELL
Alias Name: 60001545
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: PA/SI Discovery
Completed Date: 05/03/2011
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

176
SSW
1/2-1
0.962 mi.
5082 ft.

ST. HART CONTAINER
1901 E. ROSSLYNN AVENUE
FULLERTON, CA 92831

CA ENVIROSTOR **S108221300**
CA VCP **N/A**

Relative:
Lower

Actual:
190 ft.

ENVIROSTOR:
Facility ID: 71003238
Status: No Further Action
Status Date: 05/08/2015
Site Code: 401697
Site Type: Voluntary Cleanup
Site Type Detailed: Voluntary Cleanup
Acres: 9.6
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Not reported
Supervisor: Eileen Mananian
Division Branch: Cleanup Cypress
Assembly: 65
Senate: 29
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: EPA Grant
Latitude: 33.86434
Longitude: -117.8941
APN: NONE SPECIFIED
Past Use: HAZARDOUS WASTE TREATMENT, MANUFACTURING - OTHER
Potential COC: Tetrachloroethylene (PCE
Confirmed COC: 30022-NO
Potential Description: OTH, SOIL, SV
Alias Name: Orora North America

ST. HART CONTAINER (Continued) **S108221300**

Alias Type: Alternate Name
Alias Name: CAL000043359
Alias Type: EPA Identification Number
Alias Name: 401597
Alias Type: Project Code (Site Code)
Alias Name: 401597
Alias Type: Project Code (Site Code)
Alias Name: 401597
Alias Type: Project Code (Site Code)
Alias Name: 401697
Alias Type: Project Code (Site Code)
Alias Name: 71003238
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: PA/SI Site Screening
Completed Date: 10/01/2012
Comments: USEPA final and signed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 05/18/2012
Comments: Information Request letter was sent on 5/28/2012

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 10/20/2014
Comments: VCA for PEA Investigation was signed and executed on 10/20/2014

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 05/06/2015
Comments: Material sent by RP was reviewed and approved. DTSC determination was that no further action was needed as it relates to chlorinated solvents and impact to groundwater. Final document not uploaded due to trade secret information in Report

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement Termination Notification
Completed Date: 05/08/2015
Comments: VCA Termination letter sent. VCA will be terminated 30 days from the date of this letter (June 7, 2015). All cost recovery and billing closeouts will take place before June 7th.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 05/28/2014
Comments: Meeting with RP and RP's Attorney has been scheduled

Future Area Name: Not reported
Future Sub Area Name: Not reported

ST. HART CONTAINER (Continued) **S108221300**

Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

VCP:

Facility ID:	71003238
Site Type:	Voluntary Cleanup
Site Type Detail:	Voluntary Cleanup
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	9.6
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Not reported
Supervisor:	Eileen Mananian
Division Branch:	Cleanup Cypress
Site Code:	401697
Assembly:	65
Senate:	29
Special Programs Code:	Not reported
Status:	No Further Action
Status Date:	05/08/2015
Restricted Use:	NO
Funding:	EPA Grant
Lat/Long:	33.86434 / -117.8941
APN:	NONE SPECIFIED
Past Use:	HAZARDOUS WASTE TREATMENT, MANUFACTURING - OTHER
Potential COC:	30022
Confirmed COC:	30022-NO
Potential Description:	OTH, SOIL, SV
Alias Name:	Orora North America
Alias Type:	Alternate Name
Alias Name:	CAL000043359
Alias Type:	EPA Identification Number
Alias Name:	401597
Alias Type:	Project Code (Site Code)
Alias Name:	401597
Alias Type:	Project Code (Site Code)
Alias Name:	401597
Alias Type:	Project Code (Site Code)
Alias Name:	401697
Alias Type:	Project Code (Site Code)
Alias Name:	71003238
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	PA/SI Site Screening
Completed Date:	10/01/2012
Comments:	USEPA final and signed

ST. HART CONTAINER (Continued) **S108221300**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 05/18/2012
Comments: Information Request letter was sent on 5/28/2012

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 10/20/2014
Comments: VCA for PEA Investigation was signed and executed on 10/20/2014

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Report
Completed Date: 05/06/2015
Comments: Material sent by RP was reviewed and approved. DTSC determination was that no further action was needed as it relates to chlorinated solvents and impact to groundwater. Final document not uploaded due to trade secret information in Report

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement Termination Notification
Completed Date: 05/08/2015
Comments: VCA Termination letter sent. VCA will be terminated 30 days from the date of this letter (June 7, 2015). All cost recovery and billing closeouts will take place before June 7th.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 05/28/2014
Comments: Meeting with RP and RP's Attorney has been scheduled

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

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177 SW 1/2-1 0.975 mi. 5150 ft. **NATIONAL TECHNICAL SYSTEMS**
1536 E. VALENCIA DR.
FULLERTON, CA 92831

CA ENVIROSTOR **1000260524**
N/A

Relative: Lower
Actual: 182 ft.

ENVIROSTOR:
Facility ID: 60001452
Status: Inactive - Needs Evaluation
Status Date: 09/14/2011
Site Code: 401567
Site Type: Evaluation
Site Type Detailed: Evaluation

NATIONAL TECHNICAL SYSTEMS (Continued) **1000260524**

Acres:	0
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Not reported
Supervisor:	* Greg Holmes
Division Branch:	Cleanup Cypress
Assembly:	65
Senate:	29
Special Program:	EPA - PASI
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	EPA Grant
Latitude:	33.86679
Longitude:	-117.8999
APN:	NONE SPECIFIED
Past Use:	NONE SPECIFIED
Potential COC:	NONE SPECIFIED
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	401567
Alias Type:	Project Code (Site Code)
Alias Name:	60001452
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	Not reported
Completed Sub Area Name:	Not reported
Completed Document Type:	Not reported
Completed Date:	Not reported
Comments:	Not reported
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

178
SSW
1/2-1
0.993 mi.
5243 ft.

UPS FREIGHT (FORMERLY OVERNITE TRANSPORTATION) **CA ENVIROSTOR** **S118757285**
650 SOUTH ACACIA AVENUE **N/A**
FULLERTON, CA 92831

Relative:
Lower

Actual:
185 ft.

ENVIROSTOR:

Facility ID:	60002064
Status:	No Action Required
Status Date:	07/29/2015
Site Code:	401694
Site Type:	Evaluation
Site Type Detailed:	Evaluation
Acres:	0.5
NPL:	NO
Regulatory Agencies:	SMBRP

UPS FREIGHT (FORMERLY OVERNITE TRANSPORTATION) (Continued) **S118757285**

Lead Agency:	SMBRP
Program Manager:	Not reported
Supervisor:	Emad Yemut
Division Branch:	Cleanup Cypress
Assembly:	65
Senate:	29
Special Program:	EPA - PASI
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	EPA Grant
Latitude:	33.86503
Longitude:	-117.8972
APN:	NONE SPECIFIED
Past Use:	UNKNOWN
Potential COC:	Tetrachloroethylene (PCE Trichloroethylene (TCE
Confirmed COC:	Tetrachloroethylene (PCE Trichloroethylene (TCE
Potential Description:	OTH
Alias Name:	401694
Alias Type:	Project Code (Site Code)
Alias Name:	60002064
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	PA/SI Site Screening
Completed Date:	05/29/2015
Comments:	Final report available July 2015 from USEPA data base and uploaded. SSA report Confidential attachments located in Confidential field, see drop down menu.
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

Count: 10 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
FULLERTON	S114589786	CALIF STATE UNIVERSITY, FULLERTON	800 STATE COLLEGE		CA RGA LUST
FULLERTON	S114589785	CALIF STATE UNIVERSITY, FULLERTON	800 STATE COLLEGE		CA RGA LUST
FULLERTON	S114589783	CALIF STATE UNIVERSITY FULLERTON	800 STATE COLLEGE BLVD N		CA RGA LUST
FULLERTON	S114589379	CAL STATE UNIV FULLERTON	880 STATE COLLEGE BLVD		CA RGA LUST
FULLERTON	S114589378	CAL STATE UNIV FULLERTON	880 STATE COLLEGE BLVD,		CA RGA LUST
FULLERTON	S114589377	CAL STATE UNIV FULLERTON	880 STATE COLLEGE BLVD, NORTH		CA RGA LUST
FULLERTON	S114589366	CAL STATE FULLERTON	800 STATE COLLEGE		CA RGA LUST
FULLERTON	S114589365	CAL STATE FULLERTON	800 STATE COLLEGE BLVD N		CA RGA LUST
FULLERTON	1024853482	TITLE INC DBA FULLERTON UNIVERSITY	506 N STATE COLLEGE BLVD	92831	RCRA NonGen / NLR
FULLERTON	S104747985	U S RENTALS	1301 STATE COLLEGE BLVD	92834	CA LUST, CA HIST CORTESE

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 04/11/2019
Date Data Arrived at EDR: 04/18/2019
Date Made Active in Reports: 05/14/2019
Number of Days to Update: 26

Source: EPA
Telephone: N/A
Last EDR Contact: 06/06/2019
Next Scheduled EDR Contact: 07/15/2019
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 04/11/2019
Date Data Arrived at EDR: 04/18/2019
Date Made Active in Reports: 05/14/2019
Number of Days to Update: 26

Source: EPA
Telephone: N/A
Last EDR Contact: 06/06/2019
Next Scheduled EDR Contact: 07/15/2019
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

Federal Delisted NPL site list

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 04/11/2019
Date Data Arrived at EDR: 04/18/2019
Date Made Active in Reports: 05/14/2019
Number of Days to Update: 26

Source: EPA
Telephone: N/A
Last EDR Contact: 06/06/2019
Next Scheduled EDR Contact: 07/15/2019
Data Release Frequency: Quarterly

Federal CERCLIS list

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 04/03/2019
Date Data Arrived at EDR: 04/05/2019
Date Made Active in Reports: 05/14/2019
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 04/05/2019
Next Scheduled EDR Contact: 07/15/2019
Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 04/11/2019
Date Data Arrived at EDR: 04/18/2019
Date Made Active in Reports: 05/23/2019
Number of Days to Update: 35

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 06/06/2019
Next Scheduled EDR Contact: 07/29/2019
Data Release Frequency: Quarterly

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 04/11/2019
Date Data Arrived at EDR: 04/18/2019
Date Made Active in Reports: 05/23/2019
Number of Days to Update: 35

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 06/06/2019
Next Scheduled EDR Contact: 07/29/2019
Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report
CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 03/25/2019
Date Data Arrived at EDR: 03/27/2019
Date Made Active in Reports: 04/17/2019
Number of Days to Update: 21

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 03/27/2019
Next Scheduled EDR Contact: 07/08/2019
Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal
RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 03/25/2019
Date Data Arrived at EDR: 03/27/2019
Date Made Active in Reports: 04/17/2019
Number of Days to Update: 21

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 03/27/2019
Next Scheduled EDR Contact: 07/08/2019
Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators
RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/25/2019
Date Data Arrived at EDR: 03/27/2019
Date Made Active in Reports: 04/17/2019
Number of Days to Update: 21

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 03/27/2019
Next Scheduled EDR Contact: 07/08/2019
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 03/25/2019
Date Data Arrived at EDR: 03/27/2019
Date Made Active in Reports: 04/17/2019
Number of Days to Update: 21

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 03/27/2019
Next Scheduled EDR Contact: 07/08/2019
Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/25/2019
Date Data Arrived at EDR: 03/27/2019
Date Made Active in Reports: 04/17/2019
Number of Days to Update: 21

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 03/27/2019
Next Scheduled EDR Contact: 07/08/2019
Data Release Frequency: Quarterly

Federal institutional controls / engineering controls registries

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 02/22/2019
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 04/17/2019
Number of Days to Update: 41

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 05/10/2019
Next Scheduled EDR Contact: 08/26/2019
Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 01/31/2019
Date Data Arrived at EDR: 02/04/2019
Date Made Active in Reports: 03/08/2019
Number of Days to Update: 32

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 05/29/2019
Next Scheduled EDR Contact: 09/09/2019
Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 01/31/2019
Date Data Arrived at EDR: 02/04/2019
Date Made Active in Reports: 03/08/2019
Number of Days to Update: 32

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 05/29/2019
Next Scheduled EDR Contact: 09/09/2019
Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 03/25/2019
Date Data Arrived at EDR: 03/26/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 36

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 03/26/2019
Next Scheduled EDR Contact: 07/08/2019
Data Release Frequency: Quarterly

State- and tribal - equivalent NPL

RESPONSE: State Response Sites

Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 01/28/2019
Date Data Arrived at EDR: 01/29/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 35

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 04/30/2019
Next Scheduled EDR Contact: 08/12/2019
Data Release Frequency: Quarterly

State- and tribal - equivalent CERCLIS

ENVIROSTOR: EnviroStor Database

The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

Date of Government Version: 01/28/2019
Date Data Arrived at EDR: 01/29/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 35

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 04/30/2019
Next Scheduled EDR Contact: 08/12/2019
Data Release Frequency: Quarterly

State and tribal landfill and/or solid waste disposal site lists

SWF/LF (SWIS): Solid Waste Information System

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inve ntory of solid waste disposal facilities or landfills. These may be active or i nactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 02/11/2019
Date Data Arrived at EDR: 02/12/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 21

Source: Department of Resources Recycling and Recovery
Telephone: 916-341-6320
Last EDR Contact: 05/14/2019
Next Scheduled EDR Contact: 08/26/2019
Data Release Frequency: Quarterly

State and tribal leaking storage tank lists

LUST: Leaking Underground Fuel Tank Report (GEOTRACKER)
Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: see region list
Last EDR Contact: 06/11/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Quarterly

LUST REG 9: Leaking Underground Storage Tank Report
Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 03/01/2001
Date Data Arrived at EDR: 04/23/2001
Date Made Active in Reports: 05/21/2001
Number of Days to Update: 28

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-637-5595
Last EDR Contact: 09/26/2011
Next Scheduled EDR Contact: 01/09/2012
Data Release Frequency: No Update Planned

LUST REG 8: Leaking Underground Storage Tanks
California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/14/2005
Date Data Arrived at EDR: 02/15/2005
Date Made Active in Reports: 03/28/2005
Number of Days to Update: 41

Source: California Regional Water Quality Control Board Santa Ana Region (8)
Telephone: 909-782-4496
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: Varies

LUST REG 6V: Leaking Underground Storage Tank Case Listing
Leaking Underground Storage Tank locations. Inyo, Kern, Los Angeles, Mono, San Bernardino counties.

Date of Government Version: 06/07/2005
Date Data Arrived at EDR: 06/07/2005
Date Made Active in Reports: 06/29/2005
Number of Days to Update: 22

Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Telephone: 760-241-7365
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 6L: Leaking Underground Storage Tank Case Listing
For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/09/2003
Date Data Arrived at EDR: 09/10/2003
Date Made Active in Reports: 10/07/2003
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Lahontan Region (6)
Telephone: 530-542-5572
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 5: Leaking Underground Storage Tank Database
Leaking Underground Storage Tank locations. Alameda, Alpine, Amador, Butte, Colusa, Contra Costa, Calveras, El Dorado, Fresno, Glenn, Kern, Kings, Lake, Lassen, Madera, Mariposa, Merced, Modoc, Napa, Nevada, Placer, Plumas, Sacramento, San Joaquin, Shasta, Solano, Stanislaus, Sutter, Tehama, Tulare, Tuolumne, Yolo, Yuba counties.

Date of Government Version: 07/01/2008
Date Data Arrived at EDR: 07/22/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 9

Source: California Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-4834
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

LUST REG 4: Underground Storage Tank Leak List
Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6710
Last EDR Contact: 09/06/2011
Next Scheduled EDR Contact: 12/19/2011
Data Release Frequency: No Update Planned

LUST REG 3: Leaking Underground Storage Tank Database
Leaking Underground Storage Tank locations. Monterey, San Benito, San Luis Obispo, Santa Barbara, Santa Cruz counties.

Date of Government Version: 05/19/2003
Date Data Arrived at EDR: 05/19/2003
Date Made Active in Reports: 06/02/2003
Number of Days to Update: 14

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-542-4786
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: No Update Planned

LUST REG 2: Fuel Leak List
Leaking Underground Storage Tank locations. Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, Sonoma counties.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-622-2433
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: Quarterly

LUST REG 1: Active Toxic Site Investigation
Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001
Date Data Arrived at EDR: 02/28/2001
Date Made Active in Reports: 03/29/2001
Number of Days to Update: 29

Source: California Regional Water Quality Control Board North Coast (1)
Telephone: 707-570-3769
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 7: Leaking Underground Storage Tank Case Listing
Leaking Underground Storage Tank locations. Imperial, Riverside, San Diego, Santa Barbara counties.

Date of Government Version: 02/26/2004
Date Data Arrived at EDR: 02/26/2004
Date Made Active in Reports: 03/24/2004
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Telephone: 760-776-8943
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 10/10/2018
Date Data Arrived at EDR: 03/08/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 54

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 10/16/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 02/19/2019
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 11/01/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 09/24/2018
Date Data Arrived at EDR: 03/12/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 50

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 10/13/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 10/12/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55

Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 10/17/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

CPS-SLIC: Statewide SLIC Cases (GEOTRACKER)
Cleanup Program Sites (CPS; also known as Site Cleanups [SC] and formerly known as Spills, Leaks, Investigations, and Cleanups [SLIC] sites) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/11/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Varies

SLIC REG 1: Active Toxic Site Investigations
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2003
Date Data Arrived at EDR: 04/07/2003
Date Made Active in Reports: 04/25/2003
Number of Days to Update: 18

Source: California Regional Water Quality Control Board, North Coast Region (1)
Telephone: 707-576-2220
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-286-0457
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: Quarterly

SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/18/2006
Date Data Arrived at EDR: 05/18/2006
Date Made Active in Reports: 06/15/2006
Number of Days to Update: 28

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-549-3147
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: Semi-Annually

SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/17/2004
Date Data Arrived at EDR: 11/18/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 47

Source: Region Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6600
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: Varies

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/01/2005
Date Data Arrived at EDR: 04/05/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 16

Source: Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-3291
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: Semi-Annually

SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/24/2005
Date Data Arrived at EDR: 05/25/2005
Date Made Active in Reports: 06/16/2005
Number of Days to Update: 22

Source: Regional Water Quality Control Board, Victorville Branch
Telephone: 619-241-6583
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: Semi-Annually

SLIC REG 6L: SLIC Sites
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board, Lahontan Region
Telephone: 530-542-5574
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

SLIC REG 7: SLIC List
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/24/2004
Date Data Arrived at EDR: 11/29/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 36

Source: California Regional Quality Control Board, Colorado River Basin Region
Telephone: 760-346-7491
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2008
Date Data Arrived at EDR: 04/03/2008
Date Made Active in Reports: 04/14/2008
Number of Days to Update: 11

Source: California Region Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-3298
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: Semi-Annually

SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/10/2007
Date Data Arrived at EDR: 09/11/2007
Date Made Active in Reports: 09/28/2007
Number of Days to Update: 17

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 08/08/2011
Next Scheduled EDR Contact: 11/21/2011
Data Release Frequency: Annually

State and tribal registered storage tank lists

FEMA UST: Underground Storage Tank Listing
A listing of all FEMA owned underground storage tanks.

Date of Government Version: 05/15/2017
Date Data Arrived at EDR: 05/30/2017
Date Made Active in Reports: 10/13/2017
Number of Days to Update: 136

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 04/25/2019
Next Scheduled EDR Contact: 07/22/2019
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

UST CLOSURE: Proposed Closure of Underground Storage Tank (UST) Cases

UST cases that are being considered for closure by either the State Water Resources Control Board or the Executive Director have been posted for a 60-day public comment period. UST Case Closures being proposed for consideration by the State Water Resources Control Board. These are primarily UST cases that meet closure criteria under the decisional framework in State Water Board Resolution No. 92-49 and other Board orders. UST Case Closures proposed for consideration by the Executive Director pursuant to State Water Board Resolution No. 2012-0061. These are cases that meet the criteria of the Low-Threat UST Case Closure Policy. UST Case Closure Review Denials and Approved Orders.

Date of Government Version: 03/11/2019
Date Data Arrived at EDR: 03/13/2019
Date Made Active in Reports: 04/03/2019
Number of Days to Update: 21

Source: State Water Resources Control Board
Telephone: 916-327-7844
Last EDR Contact: 06/12/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Varies

UST: Active UST Facilities

Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: SWRCB
Telephone: 916-341-5851
Last EDR Contact: 06/11/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Semi-Annually

MILITARY UST SITES: Military UST Sites (GEOTRACKER)

Military ust sites

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/11/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Varies

AST: Aboveground Petroleum Storage Tank Facilities

A listing of aboveground storage tank petroleum storage tank locations.

Date of Government Version: 07/06/2016
Date Data Arrived at EDR: 07/12/2016
Date Made Active in Reports: 09/19/2016
Number of Days to Update: 69

Source: California Environmental Protection Agency
Telephone: 916-327-5092
Last EDR Contact: 03/18/2019
Next Scheduled EDR Contact: 07/01/2019
Data Release Frequency: Quarterly

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 10/16/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 10/10/2018
Date Data Arrived at EDR: 03/08/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 54

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 10/17/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 11/07/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 11/01/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 10/12/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 09/24/2018
Date Data Arrived at EDR: 03/12/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 50

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 10/03/2018
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 55

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

State and tribal voluntary cleanup sites

INDIAN VCP R1: Voluntary Cleanup Priority Listing
A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015
Date Data Arrived at EDR: 09/29/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 142

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 03/25/2019
Next Scheduled EDR Contact: 07/08/2019
Data Release Frequency: Varies

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng
A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

VCP: Voluntary Cleanup Program Properties
Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 01/28/2019
Date Data Arrived at EDR: 01/29/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 35

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 04/30/2019
Next Scheduled EDR Contact: 08/12/2019
Data Release Frequency: Quarterly

State and tribal Brownfields sites

BROWNFIELDS: Considered Brownfieds Sites Listing
A listing of sites the SWRCB considers to be Brownfields since these are sites have come to them through the MOA Process.

Date of Government Version: 03/25/2019
Date Data Arrived at EDR: 03/26/2019
Date Made Active in Reports: 04/29/2019
Number of Days to Update: 34

Source: State Water Resources Control Board
Telephone: 916-323-7905
Last EDR Contact: 03/26/2019
Next Scheduled EDR Contact: 07/08/2019
Data Release Frequency: Quarterly

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites
Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 12/17/2018
Date Data Arrived at EDR: 12/18/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 24

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 06/04/2019
Next Scheduled EDR Contact: 07/01/2019
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT: Waste Management Unit Database

Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

Date of Government Version: 04/01/2000
Date Data Arrived at EDR: 04/10/2000
Date Made Active in Reports: 05/10/2000
Number of Days to Update: 30

Source: State Water Resources Control Board
Telephone: 916-227-4448
Last EDR Contact: 04/25/2019
Next Scheduled EDR Contact: 08/12/2019
Data Release Frequency: No Update Planned

SWRCY: Recycler Database

A listing of recycling facilities in California.

Date of Government Version: 03/11/2019
Date Data Arrived at EDR: 03/13/2019
Date Made Active in Reports: 04/30/2019
Number of Days to Update: 48

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 06/12/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Quarterly

HAULERS: Registered Waste Tire Haulers Listing

A listing of registered waste tire haulers.

Date of Government Version: 03/26/2019
Date Data Arrived at EDR: 03/27/2019
Date Made Active in Reports: 04/30/2019
Number of Days to Update: 34

Source: Integrated Waste Management Board
Telephone: 916-341-6422
Last EDR Contact: 05/09/2019
Next Scheduled EDR Contact: 08/26/2019
Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/12/2019
Data Release Frequency: Varies

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 04/22/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: No Update Planned

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

IHS OPEN DUMPS: Open Dumps on Indian Land
A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014
Date Data Arrived at EDR: 08/06/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 176

Source: Department of Health & Human Serivces, Indian Health Service
Telephone: 301-443-1452
Last EDR Contact: 04/23/2019
Next Scheduled EDR Contact: 08/12/2019
Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register
A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 02/24/2019
Date Data Arrived at EDR: 02/26/2019
Date Made Active in Reports: 04/17/2019
Number of Days to Update: 50

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 05/24/2019
Next Scheduled EDR Contact: 09/09/2019
Data Release Frequency: No Update Planned

HIST CAL-SITES: Calsites Database
The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

Date of Government Version: 08/08/2005
Date Data Arrived at EDR: 08/03/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 21

Source: Department of Toxic Substance Control
Telephone: 916-323-3400
Last EDR Contact: 02/23/2009
Next Scheduled EDR Contact: 05/25/2009
Data Release Frequency: No Update Planned

SCH: School Property Evaluation Program
This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

Date of Government Version: 01/28/2019
Date Data Arrived at EDR: 01/29/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 35

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 04/30/2019
Next Scheduled EDR Contact: 08/12/2019
Data Release Frequency: Quarterly

CDL: Clandestine Drug Labs
A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 06/12/2018
Date Made Active in Reports: 08/06/2018
Number of Days to Update: 55

Source: Department of Toxic Substances Control
Telephone: 916-255-6504
Last EDR Contact: 05/02/2019
Next Scheduled EDR Contact: 07/22/2019
Data Release Frequency: Varies

TOXIC PITS: Toxic Pits Cleanup Act Sites
Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995
Date Data Arrived at EDR: 08/30/1995
Date Made Active in Reports: 09/26/1995
Number of Days to Update: 27

Source: State Water Resources Control Board
Telephone: 916-227-4364
Last EDR Contact: 01/26/2009
Next Scheduled EDR Contact: 04/27/2009
Data Release Frequency: No Update Planned

CERS HAZ WASTE: CERS HAZ WASTE

List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Hazardous Chemical Management, Hazardous Waste Onsite Treatment, Household Hazardous Waste Collection, Hazardous Waste Generator, and RCRA LQ HW Generator programs.

Date of Government Version: 04/09/2019
Date Data Arrived at EDR: 04/11/2019
Date Made Active in Reports: 05/08/2019
Number of Days to Update: 27

Source: CalEPA
Telephone: 916-323-2514
Last EDR Contact: 04/11/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Quarterly

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 02/24/2019
Date Data Arrived at EDR: 02/26/2019
Date Made Active in Reports: 04/17/2019
Number of Days to Update: 50

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 05/24/2019
Next Scheduled EDR Contact: 09/09/2019
Data Release Frequency: Quarterly

PFAS: PFAS Contamination Site Location Listing

A listing of PFAS contaminated sites included in the GeoTracker database.

Date of Government Version: 02/21/2019
Date Data Arrived at EDR: 02/22/2019
Date Made Active in Reports: 04/15/2019
Number of Days to Update: 52

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/10/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Varies

Local Lists of Registered Storage Tanks

SWEEPS UST: SWEEPS UST Listing

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994
Date Data Arrived at EDR: 07/07/2005
Date Made Active in Reports: 08/11/2005
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/03/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

UST MENDOCINO: Mendocino County UST Database

A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 12/04/2018
Date Data Arrived at EDR: 12/06/2018
Date Made Active in Reports: 12/14/2018
Number of Days to Update: 8

Source: Department of Public Health
Telephone: 707-463-4466
Last EDR Contact: 05/24/2019
Next Scheduled EDR Contact: 09/09/2019
Data Release Frequency: Annually

HIST UST: Hazardous Substance Storage Container Database

The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/1990
Date Data Arrived at EDR: 01/25/1991
Date Made Active in Reports: 02/12/1991
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-341-5851
Last EDR Contact: 07/26/2001
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SAN FRANCISCO AST: Aboveground Storage Tank Site Listing
Aboveground storage tank sites

Date of Government Version: 09/11/2018
Date Data Arrived at EDR: 09/12/2018
Date Made Active in Reports: 10/11/2018
Number of Days to Update: 29

Source: San Francisco County Department of Public Health
Telephone: 415-252-3896
Last EDR Contact: 05/02/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Varies

CA FID UST: Facility Inventory Database
The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994
Date Data Arrived at EDR: 09/05/1995
Date Made Active in Reports: 09/29/1995
Number of Days to Update: 24

Source: California Environmental Protection Agency
Telephone: 916-341-5851
Last EDR Contact: 12/28/1998
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CERS TANKS: California Environmental Reporting System (CERS) Tanks
List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Aboveground Petroleum Storage and Underground Storage Tank regulatory programs.

Date of Government Version: 04/09/2019
Date Data Arrived at EDR: 04/11/2019
Date Made Active in Reports: 05/08/2019
Number of Days to Update: 27

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 04/11/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Quarterly

Local Land Records

LIENS: Environmental Liens Listing
A listing of property locations with environmental liens for California where DTSC is a lien holder.

Date of Government Version: 02/28/2019
Date Data Arrived at EDR: 03/01/2019
Date Made Active in Reports: 04/02/2019
Number of Days to Update: 32

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 06/03/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Varies

LIENS 2: CERCLA Lien Information
A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 04/11/2019
Date Data Arrived at EDR: 04/18/2019
Date Made Active in Reports: 05/23/2019
Number of Days to Update: 35

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 06/06/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Semi-Annually

DEED: Deed Restriction Listing

Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 03/04/2019
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 04/01/2019
Number of Days to Update: 27

Source: DTSC and SWRCB
Telephone: 916-323-3400
Last EDR Contact: 06/04/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System
Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 03/25/2019
Date Data Arrived at EDR: 03/26/2019
Date Made Active in Reports: 05/14/2019
Number of Days to Update: 49

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 03/26/2019
Next Scheduled EDR Contact: 07/08/2019
Data Release Frequency: Quarterly

CHMIRS: California Hazardous Material Incident Report System
California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 10/24/2018
Date Data Arrived at EDR: 01/24/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 40

Source: Office of Emergency Services
Telephone: 916-845-8400
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Semi-Annually

LDS: Land Disposal Sites Listing (GEOTRACKER)
Land Disposal sites (Landfills) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Qualilty Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/11/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Quarterly

MCS: Military Cleanup Sites Listing (GEOTRACKER)
Military sites (consisting of: Military UST sites; Military Privatized sites; and Military Cleanup sites [formerly known as DoD non UST]) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/11/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Quarterly

SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 06/06/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/22/2013
Number of Days to Update: 50

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 03/25/2019
Date Data Arrived at EDR: 03/27/2019
Date Made Active in Reports: 04/17/2019
Number of Days to Update: 21

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 03/27/2019
Next Scheduled EDR Contact: 07/08/2019
Data Release Frequency: Quarterly

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 03/07/2019
Date Data Arrived at EDR: 04/03/2019
Date Made Active in Reports: 05/23/2019
Number of Days to Update: 50

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 05/21/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 04/12/2019
Next Scheduled EDR Contact: 07/22/2019
Data Release Frequency: Semi-Annually

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 02/06/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 339

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 04/12/2019
Next Scheduled EDR Contact: 07/22/2019
Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 01/01/2017
Date Data Arrived at EDR: 02/03/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 63

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 05/13/2019
Next Scheduled EDR Contact: 08/26/2019
Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 03/25/2019
Date Data Arrived at EDR: 03/26/2019
Date Made Active in Reports: 05/07/2019
Number of Days to Update: 42

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 03/26/2019
Next Scheduled EDR Contact: 07/08/2019
Data Release Frequency: Quarterly

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 05/06/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 09/30/2017
Date Data Arrived at EDR: 05/08/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 73

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 05/10/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 06/21/2017
Date Made Active in Reports: 01/05/2018
Number of Days to Update: 198

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 03/22/2019
Next Scheduled EDR Contact: 07/01/2019
Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 01/10/2018
Date Made Active in Reports: 01/12/2018
Number of Days to Update: 2

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 05/24/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 12/10/2010
Date Made Active in Reports: 02/25/2011
Number of Days to Update: 77

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 04/24/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Annually

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 04/11/2019
Date Data Arrived at EDR: 04/18/2019
Date Made Active in Reports: 05/23/2019
Number of Days to Update: 35

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 06/06/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 04/25/2019
Date Data Arrived at EDR: 05/02/2019
Date Made Active in Reports: 05/23/2019
Number of Days to Update: 21

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 04/22/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties
A listing of verified Potentially Responsible Parties

Date of Government Version: 04/11/2019
Date Data Arrived at EDR: 04/18/2019
Date Made Active in Reports: 05/23/2019
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 06/06/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Quarterly

PADS: PCB Activity Database System
PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 03/20/2019
Date Data Arrived at EDR: 04/10/2019
Date Made Active in Reports: 05/14/2019
Number of Days to Update: 34

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 04/10/2019
Next Scheduled EDR Contact: 07/22/2019
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System
The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 11/18/2016
Date Data Arrived at EDR: 11/23/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 79

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 04/08/2019
Next Scheduled EDR Contact: 07/22/2019
Data Release Frequency: Quarterly

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: Quarterly

MLTS: Material Licensing Tracking System
MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 08/30/2016
Date Data Arrived at EDR: 09/08/2016
Date Made Active in Reports: 10/21/2016
Number of Days to Update: 43

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 04/22/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Quarterly

COAL ASH DOE: Steam-Electric Plant Operation Data
A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 08/07/2009
Date Made Active in Reports: 10/22/2009
Number of Days to Update: 76

Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 06/07/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List
A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 07/01/2014
Date Data Arrived at EDR: 09/10/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 06/07/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database
The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 05/24/2017
Date Data Arrived at EDR: 11/30/2017
Date Made Active in Reports: 12/15/2017
Number of Days to Update: 15

Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 04/26/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

RADINFO: Radiation Information Database
The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 04/02/2019
Date Data Arrived at EDR: 04/02/2019
Date Made Active in Reports: 05/14/2019
Number of Days to Update: 42

Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 04/02/2019
Next Scheduled EDR Contact: 07/15/2019
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing
A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing
A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 12/03/2018
Date Data Arrived at EDR: 01/29/2019
Date Made Active in Reports: 03/21/2019
Number of Days to Update: 51

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 04/30/2019
Next Scheduled EDR Contact: 08/12/2019
Data Release Frequency: Quarterly

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 03/31/2019
Date Data Arrived at EDR: 04/23/2019
Date Made Active in Reports: 05/23/2019
Number of Days to Update: 30

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 04/05/2019
Next Scheduled EDR Contact: 07/22/2019
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2015
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 09/28/2017
Number of Days to Update: 218

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 05/24/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 07/14/2015
Date Made Active in Reports: 01/10/2017
Number of Days to Update: 546

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 04/11/2019
Next Scheduled EDR Contact: 07/22/2019
Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 08/08/2017
Date Data Arrived at EDR: 09/11/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 3

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 05/02/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 06/23/2017
Date Data Arrived at EDR: 10/11/2017
Date Made Active in Reports: 11/03/2017
Number of Days to Update: 23

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 05/24/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites
A listing of former lead smelter site locations.

Date of Government Version: 04/11/2019
Date Data Arrived at EDR: 04/18/2019
Date Made Active in Reports: 05/14/2019
Number of Days to Update: 26

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 06/06/2019
Next Scheduled EDR Contact: 07/15/2019
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites
A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)
The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data
A listing of minor source facilities.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US MINES: Mines Master Index File
Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 11/27/2018
Date Data Arrived at EDR: 02/27/2019
Date Made Active in Reports: 04/01/2019
Number of Days to Update: 33

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 05/29/2019
Next Scheduled EDR Contact: 09/09/2019
Data Release Frequency: Semi-Annually

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing
This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 12/05/2005
Date Data Arrived at EDR: 02/29/2008
Date Made Active in Reports: 04/18/2008
Number of Days to Update: 49

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 05/31/2019
Next Scheduled EDR Contact: 09/09/2019
Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011
Date Data Arrived at EDR: 06/08/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 97

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 05/31/2019
Next Scheduled EDR Contact: 09/09/2019
Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 03/27/2019
Date Data Arrived at EDR: 03/28/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 34

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 06/10/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 02/15/2019
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 03/15/2019
Number of Days to Update: 10

Source: EPA
Telephone: (415) 947-8000
Last EDR Contact: 06/05/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Quarterly

ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 04/07/2019
Date Data Arrived at EDR: 04/09/2019
Date Made Active in Reports: 05/23/2019
Number of Days to Update: 44

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 04/09/2019
Next Scheduled EDR Contact: 07/22/2019
Data Release Frequency: Quarterly

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 01/17/2019
Date Made Active in Reports: 04/01/2019
Number of Days to Update: 74

Source: Department of Defense
Telephone: 703-704-1564
Last EDR Contact: 04/15/2019
Next Scheduled EDR Contact: 07/29/2019
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

DOCKET HWC: Hazardous Waste Compliance Docket Listing
A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 05/31/2018
Date Data Arrived at EDR: 07/26/2018
Date Made Active in Reports: 10/05/2018
Number of Days to Update: 71

Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 05/24/2019
Next Scheduled EDR Contact: 09/09/2019
Data Release Frequency: Varies

FUELS PROGRAM: EPA Fuels Program Registered Listing
This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 02/19/2019
Date Data Arrived at EDR: 02/21/2019
Date Made Active in Reports: 04/01/2019
Number of Days to Update: 39

Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 05/21/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Quarterly

CA BOND EXP. PLAN: Bond Expenditure Plan
Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

Date of Government Version: 01/01/1989
Date Data Arrived at EDR: 07/27/1994
Date Made Active in Reports: 08/02/1994
Number of Days to Update: 6

Source: Department of Health Services
Telephone: 916-255-2118
Last EDR Contact: 05/31/1994
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CORTESE: "Cortese" Hazardous Waste & Substances Sites List
The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

Date of Government Version: 03/25/2019
Date Data Arrived at EDR: 03/26/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 36

Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 03/26/2019
Next Scheduled EDR Contact: 07/08/2019
Data Release Frequency: Quarterly

CUPA SAN FRANCISCO CO: CUPA Facility Listing
Cupa facilities

Date of Government Version: 04/18/2019
Date Data Arrived at EDR: 04/19/2019
Date Made Active in Reports: 04/30/2019
Number of Days to Update: 11

Source: San Francisco County Department of Environmental Health
Telephone: 415-252-3896
Last EDR Contact: 04/18/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Varies

CUPA LIVERMORE-PLEASANTON: CUPA Facility Listing
list of facilities associated with the various CUPA programs in Livermore-Pleasanton

Date of Government Version: 01/23/2019
Date Data Arrived at EDR: 02/26/2019
Date Made Active in Reports: 04/01/2019
Number of Days to Update: 34

Source: Livermore-Pleasanton Fire Department
Telephone: 925-454-2361
Last EDR Contact: 05/14/2019
Next Scheduled EDR Contact: 08/26/2019
Data Release Frequency: Varies

DRYCLEAN SOUTH COAST: South Coast Air Quality Management District Drycleaner Listing
A listing of dry cleaners in the South Coast Air Quality Management District

Date of Government Version: 03/19/2019
Date Data Arrived at EDR: 03/22/2019
Date Made Active in Reports: 04/09/2019
Number of Days to Update: 18

Source: South Coast Air Quality Management District
Telephone: 909-396-3211
Last EDR Contact: 05/23/2019
Next Scheduled EDR Contact: 09/09/2019
Data Release Frequency: Varies

DRYCLEANERS: Cleaner Facilities

A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 03/01/2019
Date Data Arrived at EDR: 04/25/2019
Date Made Active in Reports: 05/30/2019
Number of Days to Update: 35

Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Last EDR Contact: 06/03/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Annually

DRYCLEAN AVAQMD: Antelope Valley Air Quality Management District Drycleaner Listing

A listing of dry cleaners in the Antelope Valley Air Quality Management District.

Date of Government Version: 02/27/2019
Date Data Arrived at EDR: 02/28/2019
Date Made Active in Reports: 04/01/2019
Number of Days to Update: 32

Source: Antelope Valley Air Quality Management District
Telephone: 661-723-8070
Last EDR Contact: 06/03/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Varies

EMI: Emissions Inventory Data

Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 06/20/2018
Date Made Active in Reports: 08/06/2018
Number of Days to Update: 47

Source: California Air Resources Board
Telephone: 916-322-2990
Last EDR Contact: 03/22/2019
Next Scheduled EDR Contact: 07/01/2019
Data Release Frequency: Varies

ENF: Enforcement Action Listing

A listing of Water Board Enforcement Actions. Formal is everything except Oral/Verbal Communication, Notice of Violation, Expedited Payment Letter, and Staff Enforcement Letter.

Date of Government Version: 11/01/2018
Date Data Arrived at EDR: 11/02/2018
Date Made Active in Reports: 12/13/2018
Number of Days to Update: 41

Source: State Water Resoruces Control Board
Telephone: 916-445-9379
Last EDR Contact: 05/14/2019
Next Scheduled EDR Contact: 08/26/2019
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing

Financial Assurance information

Date of Government Version: 01/10/2019
Date Data Arrived at EDR: 01/23/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 41

Source: Department of Toxic Substances Control
Telephone: 916-255-3628
Last EDR Contact: 04/22/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

Financial Assurance 2: Financial Assurance Information Listing

A listing of financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 02/15/2019
Date Data Arrived at EDR: 02/19/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 14

Source: California Integrated Waste Management Board
Telephone: 916-341-6066
Last EDR Contact: 05/09/2019
Next Scheduled EDR Contact: 08/26/2019
Data Release Frequency: Varies

HAZNET: Facility and Manifest Data

Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method. This database begins with calendar year 1993.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 04/09/2019
Date Made Active in Reports: 05/29/2019
Number of Days to Update: 50

Source: California Environmental Protection Agency
Telephone: 916-255-1136
Last EDR Contact: 04/22/2019
Next Scheduled EDR Contact: 07/22/2019
Data Release Frequency: Annually

ICE: ICE

Contains data pertaining to the Permitted Facilities with Inspections / Enforcements sites tracked in Envirostor.

Date of Government Version: 02/19/2019
Date Data Arrived at EDR: 02/20/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 13

Source: Department of Toxic Subsances Control
Telephone: 877-786-9427
Last EDR Contact: 05/21/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Quarterly

HIST CORTESE: Hazardous Waste & Substance Site List

The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

Date of Government Version: 04/01/2001
Date Data Arrived at EDR: 01/22/2009
Date Made Active in Reports: 04/08/2009
Number of Days to Update: 76

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/22/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

HWP: EnviroStor Permitted Facilities Listing

Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

Date of Government Version: 02/19/2019
Date Data Arrived at EDR: 02/20/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 13

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 05/21/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Quarterly

HWT: Registered Hazardous Waste Transporter Database

A listing of hazardous waste transporters. In California, unless specifically exempted, it is unlawful for any person to transport hazardous wastes unless the person holds a valid registration issued by DTSC. A hazardous waste transporter registration is valid for one year and is assigned a unique registration number.

Date of Government Version: 04/08/2019
Date Data Arrived at EDR: 04/09/2019
Date Made Active in Reports: 05/30/2019
Number of Days to Update: 51

Source: Department of Toxic Substances Control
Telephone: 916-440-7145
Last EDR Contact: 04/09/2019
Next Scheduled EDR Contact: 07/22/2019
Data Release Frequency: Quarterly

MINES: Mines Site Location Listing
A listing of mine site locations from the Office of Mine Reclamation.

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/12/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 34

Source: Department of Conservation
Telephone: 916-322-1080
Last EDR Contact: 06/11/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Quarterly

MWMP: Medical Waste Management Program Listing
The Medical Waste Management Program (MWMP) ensures the proper handling and disposal of medical waste by permitting and inspecting medical waste Offsite Treatment Facilities (PDF) and Transfer Stations (PDF) throughout the state. MWMP also oversees all Medical Waste Transporters.

Date of Government Version: 02/20/2019
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 04/02/2019
Number of Days to Update: 28

Source: Department of Public Health
Telephone: 916-558-1784
Last EDR Contact: 06/04/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Varies

NPDES: NPDES Permits Listing
A listing of NPDES permits, including stormwater.

Date of Government Version: 02/11/2019
Date Data Arrived at EDR: 02/12/2019
Date Made Active in Reports: 03/07/2019
Number of Days to Update: 23

Source: State Water Resources Control Board
Telephone: 916-445-9379
Last EDR Contact: 05/14/2019
Next Scheduled EDR Contact: 08/26/2019
Data Release Frequency: Quarterly

PEST LIC: Pesticide Regulation Licenses Listing
A listing of licenses and certificates issued by the Department of Pesticide Regulation. The DPR issues licenses and/or certificates to: Persons and businesses that apply or sell pesticides; Pest control dealers and brokers; Persons who advise on agricultural pesticide applications.

Date of Government Version: 03/04/2019
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 04/05/2019
Number of Days to Update: 31

Source: Department of Pesticide Regulation
Telephone: 916-445-4038
Last EDR Contact: 06/04/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Quarterly

PROC: Certified Processors Database
A listing of certified processors.

Date of Government Version: 03/11/2019
Date Data Arrived at EDR: 03/13/2019
Date Made Active in Reports: 04/29/2019
Number of Days to Update: 47

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 06/12/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Quarterly

NOTIFY 65: Proposition 65 Records
Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

Date of Government Version: 03/18/2019
Date Data Arrived at EDR: 03/19/2019
Date Made Active in Reports: 04/29/2019
Number of Days to Update: 41

Source: State Water Resources Control Board
Telephone: 916-445-3846
Last EDR Contact: 03/18/2019
Next Scheduled EDR Contact: 07/01/2019
Data Release Frequency: No Update Planned

UIC: UIC Listing
A listing of wells identified as underground injection wells, in the California Oil and Gas Wells database.

Date of Government Version: 04/27/2018
Date Data Arrived at EDR: 06/13/2018
Date Made Active in Reports: 07/17/2018
Number of Days to Update: 34

Source: Deaprtment of Conservation
Telephone: 916-445-2408
Last EDR Contact: 06/11/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Varies

UIC GEO: Underground Injection Control Sites (GEOTRACKER)
Underground control injection sites

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resource Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/11/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Varies

WASTEWATER PITS: Oil Wastewater Pits Listing
Water officials discovered that oil producers have been dumping chemical-laden wastewater into hundreds of unlined pits that are operating without proper permits. Inspections completed by the Central Valley Regional Water Quality Control Board revealed the existence of previously unidentified waste sites. The water boards review found that more than one-third of the region's active disposal pits are operating without permission.

Date of Government Version: 05/08/2018
Date Data Arrived at EDR: 07/11/2018
Date Made Active in Reports: 09/13/2018
Number of Days to Update: 64

Source: RWQCB, Central Valley Region
Telephone: 559-445-5577
Last EDR Contact: 04/12/2019
Next Scheduled EDR Contact: 07/22/2019
Data Release Frequency: Varies

WDS: Waste Discharge System
Sites which have been issued waste discharge requirements.

Date of Government Version: 06/19/2007
Date Data Arrived at EDR: 06/20/2007
Date Made Active in Reports: 06/29/2007
Number of Days to Update: 9

Source: State Water Resources Control Board
Telephone: 916-341-5227
Last EDR Contact: 05/16/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Quarterly

MILITARY PRIV SITES: Military Privatized Sites (GEOTRACKER)
Military privatized sites

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/11/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Varies

PROJECT: Project Sites (GEOTRACKER)
Projects sites

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/11/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Varies

WDR: Waste Discharge Requirements Listing
In general, the Waste Discharge Requirements (WDRs) Program (sometimes also referred to as the "Non Chapter 15 (Non 15) Program") regulates point discharges that are exempt pursuant to Subsection 20090 of Title 27 and not subject to the Federal Water Pollution Control Act. Exemptions from Title 27 may be granted for nine categories of discharges (e.g., sewage, wastewater, etc.) that meet, and continue to meet, the preconditions listed for each specific exemption. The scope of the WDRs Program also includes the discharge of wastes classified as inert, pursuant to section 20230 of Title 27.

Date of Government Version: 03/11/2019
Date Data Arrived at EDR: 03/13/2019
Date Made Active in Reports: 04/29/2019
Number of Days to Update: 47

Source: State Water Resources Control Board
Telephone: 916-341-5810
Last EDR Contact: 06/12/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Quarterly

CIWQS: California Integrated Water Quality System

The California Integrated Water Quality System (CIWQS) is a computer system used by the State and Regional Water Quality Control Boards to track information about places of environmental interest, manage permits and other orders, track inspections, and manage violations and enforcement activities.

Date of Government Version: 03/05/2019
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 04/02/2019
Number of Days to Update: 28

Source: State Water Resources Control Board
Telephone: 866-794-4977
Last EDR Contact: 06/04/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Varies

CERS: CalEPA Regulated Site Portal Data

The CalEPA Regulated Site Portal database combines data about environmentally regulated sites and facilities in California into a single database. It combines data from a variety of state and federal databases, and provides an overview of regulated activities across the spectrum of environmental programs for any given location in California. These activities include hazardous materials and waste, state and federal cleanups, impacted ground and surface waters, and toxic materials

Date of Government Version: 04/09/2019
Date Data Arrived at EDR: 04/11/2019
Date Made Active in Reports: 05/08/2019
Number of Days to Update: 27

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 04/11/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

NON-CASE INFO: Non-Case Information Sites (GEOTRACKER)

Non-Case Information sites

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/11/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Varies

WIP: Well Investigation Program Case List

Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 07/03/2009
Date Data Arrived at EDR: 07/21/2009
Date Made Active in Reports: 08/03/2009
Number of Days to Update: 13

Source: Los Angeles Water Quality Control Board
Telephone: 213-576-6726
Last EDR Contact: 03/25/2019
Next Scheduled EDR Contact: 07/08/2019
Data Release Frequency: Varies

OTHER OIL GAS: Other Oil & Gas Projects Sites (GEOTRACKER)

Other Oil & Gas Projects sites

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/11/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Varies

PROD WATER PONDS: Produced Water Ponds Sites (GEOTRACKER)

Produced water ponds sites

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/11/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Varies

SAMPLING POINT: Sampling Point ? Public Sites (GEOTRACKER)
Sampling point - public sites

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/11/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Varies

WELL STIM PROJ: Well Stimulation Project (GEOTRACKER)
Includes areas of groundwater monitoring plans, a depiction of the monitoring network, and the facilities, boundaries, and subsurface characteristics of the oilfield and the features (oil and gas wells, produced water ponds, UIC wells, water supply wells, etc?) being monitored

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/11/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Varies

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants
The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historical Auto Stations
EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historical Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Resources Recycling and Recovery in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/13/2014
Number of Days to Update: 196

Source: Department of Resources Recycling and Recovery
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the State Water Resources Control Board in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/30/2013
Number of Days to Update: 182

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

COUNTY RECORDS

ALAMEDA COUNTY:

CS ALAMEDA: Contaminated Sites

A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 01/09/2019
Date Data Arrived at EDR: 01/11/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 53

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 04/22/2019
Next Scheduled EDR Contact: 07/22/2019
Data Release Frequency: Semi-Annually

UST ALAMEDA: Underground Tanks

Underground storage tank sites located in Alameda county.

Date of Government Version: 01/07/2019
Date Data Arrived at EDR: 01/08/2019
Date Made Active in Reports: 03/08/2019
Number of Days to Update: 59

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 04/08/2019
Next Scheduled EDR Contact: 04/24/2047
Data Release Frequency: Semi-Annually

AMADOR COUNTY:

CUPA AMADOR: CUPA Facility List
Cupa Facility List

Date of Government Version: 01/07/2019
Date Data Arrived at EDR: 01/08/2019
Date Made Active in Reports: 03/07/2019
Number of Days to Update: 58

Source: Amador County Environmental Health
Telephone: 209-223-6439
Last EDR Contact: 06/03/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Varies

BUTTE COUNTY:

CUPA BUTTE: CUPA Facility Listing
Cupa facility list.

Date of Government Version: 04/21/2017
Date Data Arrived at EDR: 04/25/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 106

Source: Public Health Department
Telephone: 530-538-7149
Last EDR Contact: 04/08/2019
Next Scheduled EDR Contact: 07/22/2019
Data Release Frequency: No Update Planned

CALVERAS COUNTY:

CUPA CALVERAS: CUPA Facility Listing
Cupa Facility Listing

Date of Government Version: 05/01/2019
Date Data Arrived at EDR: 05/02/2019
Date Made Active in Reports: 05/29/2019
Number of Days to Update: 27

Source: Calveras County Environmental Health
Telephone: 209-754-6399
Last EDR Contact: 03/25/2019
Next Scheduled EDR Contact: 07/08/2019
Data Release Frequency: Quarterly

COLUSA COUNTY:

CUPA COLUSA: CUPA Facility List
Cupa facility list.

Date of Government Version: 02/27/2019
Date Data Arrived at EDR: 02/28/2019
Date Made Active in Reports: 04/01/2019
Number of Days to Update: 32

Source: Health & Human Services
Telephone: 530-458-0396
Last EDR Contact: 05/16/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Semi-Annually

CONTRA COSTA COUNTY:

SL CONTRA COSTA: Site List
List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 02/14/2019
Date Data Arrived at EDR: 02/19/2019
Date Made Active in Reports: 03/08/2019
Number of Days to Update: 17

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 04/29/2019
Next Scheduled EDR Contact: 08/12/2019
Data Release Frequency: Semi-Annually

DEL NORTE COUNTY:

CUPA DEL NORTE: CUPA Facility List
Cupa Facility list

Date of Government Version: 02/20/2019
Date Data Arrived at EDR: 05/01/2019
Date Made Active in Reports: 05/30/2019
Number of Days to Update: 29

Source: Del Norte County Environmental Health Division
Telephone: 707-465-0426
Last EDR Contact: 04/25/2019
Next Scheduled EDR Contact: 08/12/2019
Data Release Frequency: Varies

EL DORADO COUNTY:

CUPA EL DORADO: CUPA Facility List
CUPA facility list.

Date of Government Version: 02/27/2019
Date Data Arrived at EDR: 02/28/2019
Date Made Active in Reports: 04/01/2019
Number of Days to Update: 32

Source: El Dorado County Environmental Management Department
Telephone: 530-621-6623
Last EDR Contact: 04/29/2019
Next Scheduled EDR Contact: 08/12/2019
Data Release Frequency: Varies

FRESNO COUNTY:

CUPA FRESNO: CUPA Resources List
Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 04/10/2019
Date Data Arrived at EDR: 04/11/2019
Date Made Active in Reports: 04/30/2019
Number of Days to Update: 19

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 03/29/2019
Next Scheduled EDR Contact: 07/15/2019
Data Release Frequency: Semi-Annually

GLENN COUNTY:

CUPA GLENN: CUPA Facility List
Cupa facility list

Date of Government Version: 01/22/2018
Date Data Arrived at EDR: 01/24/2018
Date Made Active in Reports: 03/14/2018
Number of Days to Update: 49

Source: Glenn County Air Pollution Control District
Telephone: 830-934-6500
Last EDR Contact: 04/22/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

HUMBOLDT COUNTY:

CUPA HUMBOLDT: CUPA Facility List
CUPA facility list.

Date of Government Version: 12/11/2018
Date Data Arrived at EDR: 12/13/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 33

Source: Humboldt County Environmental Health
Telephone: N/A
Last EDR Contact: 05/20/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Semi-Annually

IMPERIAL COUNTY:

CUPA IMPERIAL: CUPA Facility List
Cupa facility list.

Date of Government Version: 01/18/2019
Date Data Arrived at EDR: 01/23/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 41

Source: San Diego Border Field Office
Telephone: 760-339-2777
Last EDR Contact: 04/22/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

INYO COUNTY:

CUPA INYO: CUPA Facility List
Cupa facility list.

Date of Government Version: 04/02/2018
Date Data Arrived at EDR: 04/03/2018
Date Made Active in Reports: 06/14/2018
Number of Days to Update: 72

Source: Inyo County Environmental Health Services
Telephone: 760-878-0238
Last EDR Contact: 05/16/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Varies

KERN COUNTY:

UST KERN: Underground Storage Tank Sites & Tank Listing
Kern County Sites and Tanks Listing.

Date of Government Version: 01/28/2019
Date Data Arrived at EDR: 02/07/2019
Date Made Active in Reports: 03/08/2019
Number of Days to Update: 29

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 05/02/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Quarterly

KINGS COUNTY:

CUPA KINGS: CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 05/16/2019
Date Data Arrived at EDR: 05/17/2019
Date Made Active in Reports: 05/30/2019
Number of Days to Update: 13

Source: Kings County Department of Public Health
Telephone: 559-584-1411
Last EDR Contact: 05/16/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Varies

LAKE COUNTY:

CUPA LAKE: CUPA Facility List
Cupa facility list

Date of Government Version: 02/08/2019
Date Data Arrived at EDR: 02/12/2019
Date Made Active in Reports: 03/12/2019
Number of Days to Update: 28

Source: Lake County Environmental Health
Telephone: 707-263-1164
Last EDR Contact: 04/15/2019
Next Scheduled EDR Contact: 07/29/2019
Data Release Frequency: Varies

LASSEN COUNTY:

CUPA LASSEN: CUPA Facility List
Cupa facility list

Date of Government Version: 01/17/2019
Date Data Arrived at EDR: 01/18/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 46

Source: Lassen County Environmental Health
Telephone: 530-251-8528
Last EDR Contact: 04/22/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

LOS ANGELES COUNTY:

AOCONCERN: Key Areas of Concerns in Los Angeles County
San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office. Date of Government Version: 3/30/2009 Exide Site area is a cleanup plan of lead-impacted soil surrounding the former Exide Facility as designated by the DTSC. Date of Government Version: 7/17/2017

Date of Government Version: 03/30/2009
Date Data Arrived at EDR: 03/31/2009
Date Made Active in Reports: 10/23/2009
Number of Days to Update: 206

Source: N/A
Telephone: N/A
Last EDR Contact: 03/18/2019
Next Scheduled EDR Contact: 07/01/2019
Data Release Frequency: No Update Planned

HMS LOS ANGELES: HMS: Street Number List
Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 12/19/2018
Date Data Arrived at EDR: 01/10/2019
Date Made Active in Reports: 03/07/2019
Number of Days to Update: 56

Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 05/02/2019
Next Scheduled EDR Contact: 07/22/2019
Data Release Frequency: Semi-Annually

LF LOS ANGELES: List of Solid Waste Facilities
Solid Waste Facilities in Los Angeles County.

Date of Government Version: 01/14/2019
Date Data Arrived at EDR: 01/15/2019
Date Made Active in Reports: 03/07/2019
Number of Days to Update: 51

Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 04/16/2019
Next Scheduled EDR Contact: 07/29/2019
Data Release Frequency: Varies

LF LOS ANGELES CITY: City of Los Angeles Landfills
Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 01/01/2019
Date Data Arrived at EDR: 01/15/2019
Date Made Active in Reports: 03/07/2019
Number of Days to Update: 51

Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 04/15/2019
Next Scheduled EDR Contact: 07/29/2019
Data Release Frequency: Varies

LOS ANGELES AST: Active & Inactive AST Inventory
A listing of active & inactive above ground petroleum storage tank site locations, located in the City of Los Angeles.

Date of Government Version: 01/01/2019
Date Data Arrived at EDR: 04/05/2019
Date Made Active in Reports: 05/29/2019
Number of Days to Update: 54

Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 04/05/2019
Next Scheduled EDR Contact: 07/08/2019
Data Release Frequency: Varies

LOS ANGELES CO LF METHANE: Methane Producing Landfills

This data was created on April 30, 2012 to represent known disposal sites in Los Angeles County that may produce and emanate methane gas. The shapefile contains disposal sites within Los Angeles County that once accepted degradable refuse material. Information used to create this data was extracted from a landfill survey performed by County Engineers (Major Waste System Map, 1973) as well as historical records from CalRecycle, Regional Water Quality Control Board, and Los Angeles County Department of Public Health

Date of Government Version: 04/30/2012
Date Data Arrived at EDR: 04/17/2019
Date Made Active in Reports: 05/29/2019
Number of Days to Update: 42

Source: Los Angeles County Department of Public Works
Telephone: 626-458-6973
Last EDR Contact: 04/17/2019
Next Scheduled EDR Contact: 07/29/2019
Data Release Frequency: No Update Planned

LOS ANGELES HM: Active & Inactive Hazardous Materials Inventory

A listing of active & inactive hazardous materials facility locations, located in the City of Los Angeles.

Date of Government Version: 01/01/2019
Date Data Arrived at EDR: 04/05/2019
Date Made Active in Reports: 05/29/2019
Number of Days to Update: 54

Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 04/05/2019
Next Scheduled EDR Contact: 07/15/2019
Data Release Frequency: Varies

LOS ANGELES UST: Active & Inactive UST Inventory

A listing of active & inactive underground storage tank site locations and underground storage tank historical sites, located in the City of Los Angeles.

Date of Government Version: 01/01/2019
Date Data Arrived at EDR: 04/05/2019
Date Made Active in Reports: 05/29/2019
Number of Days to Update: 54

Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 04/05/2019
Next Scheduled EDR Contact: 07/15/2019
Data Release Frequency: Varies

SITE MIT LOS ANGELES: Site Mitigation List

Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 01/30/2019
Date Data Arrived at EDR: 02/01/2019
Date Made Active in Reports: 03/07/2019
Number of Days to Update: 34

Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 04/16/2019
Next Scheduled EDR Contact: 07/29/2019
Data Release Frequency: Annually

UST EL SEGUNDO: City of El Segundo Underground Storage Tank

Underground storage tank sites located in El Segundo city.

Date of Government Version: 01/21/2017
Date Data Arrived at EDR: 04/19/2017
Date Made Active in Reports: 05/10/2017
Number of Days to Update: 21

Source: City of El Segundo Fire Department
Telephone: 310-524-2236
Last EDR Contact: 04/15/2019
Next Scheduled EDR Contact: 07/29/2019
Data Release Frequency: Semi-Annually

UST LONG BEACH: City of Long Beach Underground Storage Tank

Underground storage tank sites located in the city of Long Beach.

Date of Government Version: 03/09/2017
Date Data Arrived at EDR: 03/10/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 54

Source: City of Long Beach Fire Department
Telephone: 562-570-2563
Last EDR Contact: 04/22/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Annually

UST TORRANCE: City of Torrance Underground Storage Tank
Underground storage tank sites located in the city of Torrance.

Date of Government Version: 10/02/2018
Date Data Arrived at EDR: 10/05/2018
Date Made Active in Reports: 11/02/2018
Number of Days to Update: 28

Source: City of Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 04/22/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Semi-Annually

MADERA COUNTY:

CUPA MADERA: CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 02/20/2019
Date Data Arrived at EDR: 02/22/2019
Date Made Active in Reports: 03/07/2019
Number of Days to Update: 13

Source: Madera County Environmental Health
Telephone: 559-675-7823
Last EDR Contact: 05/16/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Varies

MARIN COUNTY:

UST MARIN: Underground Storage Tank Sites
Currently permitted USTs in Marin County.

Date of Government Version: 09/26/2018
Date Data Arrived at EDR: 10/04/2018
Date Made Active in Reports: 11/02/2018
Number of Days to Update: 29

Source: Public Works Department Waste Management
Telephone: 415-473-6647
Last EDR Contact: 03/29/2019
Next Scheduled EDR Contact: 07/15/2019
Data Release Frequency: Semi-Annually

MERCED COUNTY:

CUPA MERCED: CUPA Facility List
CUPA facility list.

Date of Government Version: 03/11/2019
Date Data Arrived at EDR: 03/19/2019
Date Made Active in Reports: 05/08/2019
Number of Days to Update: 50

Source: Merced County Environmental Health
Telephone: 209-381-1094
Last EDR Contact: 05/16/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Varies

MONO COUNTY:

CUPA MONO: CUPA Facility List
CUPA Facility List

Date of Government Version: 02/21/2019
Date Data Arrived at EDR: 02/26/2019
Date Made Active in Reports: 04/01/2019
Number of Days to Update: 34

Source: Mono County Health Department
Telephone: 760-932-5580
Last EDR Contact: 05/23/2019
Next Scheduled EDR Contact: 09/09/2019
Data Release Frequency: Varies

MONTEREY COUNTY:

CUPA MONTEREY: CUPA Facility Listing
CUPA Program listing from the Environmental Health Division.

Date of Government Version: 02/05/2019
Date Data Arrived at EDR: 02/07/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 26

Source: Monterey County Health Department
Telephone: 831-796-1297
Last EDR Contact: 04/01/2019
Next Scheduled EDR Contact: 07/15/2019
Data Release Frequency: Varies

NAPA COUNTY:

LUST NAPA: Sites With Reported Contamination
A listing of leaking underground storage tank sites located in Napa county.

Date of Government Version: 01/09/2017
Date Data Arrived at EDR: 01/11/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 50

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 05/24/2019
Next Scheduled EDR Contact: 09/09/2019
Data Release Frequency: No Update Planned

UST NAPA: Closed and Operating Underground Storage Tank Sites
Underground storage tank sites located in Napa county.

Date of Government Version: 02/21/2019
Date Data Arrived at EDR: 02/22/2019
Date Made Active in Reports: 03/08/2019
Number of Days to Update: 14

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 05/24/2019
Next Scheduled EDR Contact: 09/09/2019
Data Release Frequency: No Update Planned

NEVADA COUNTY:

CUPA NEVADA: CUPA Facility List
CUPA facility list.

Date of Government Version: 05/20/2019
Date Data Arrived at EDR: 05/21/2019
Date Made Active in Reports: 05/30/2019
Number of Days to Update: 9

Source: Community Development Agency
Telephone: 530-265-1467
Last EDR Contact: 05/13/2019
Next Scheduled EDR Contact: 08/12/2019
Data Release Frequency: Varies

ORANGE COUNTY:

IND_SITE ORANGE: List of Industrial Site Cleanups
Petroleum and non-petroleum spills.

Date of Government Version: 05/01/2019
Date Data Arrived at EDR: 05/09/2019
Date Made Active in Reports: 05/30/2019
Number of Days to Update: 21

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 05/06/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Annually

LUST ORANGE: List of Underground Storage Tank Cleanups
Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 05/01/2019
Date Data Arrived at EDR: 05/09/2019
Date Made Active in Reports: 05/30/2019
Number of Days to Update: 21

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 05/06/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Quarterly

UST ORANGE: List of Underground Storage Tank Facilities
Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 01/02/2019
Date Data Arrived at EDR: 02/05/2019
Date Made Active in Reports: 03/08/2019
Number of Days to Update: 31

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 05/07/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Quarterly

PLACER COUNTY:

MS PLACER: Master List of Facilities
List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 02/28/2019
Date Data Arrived at EDR: 03/01/2019
Date Made Active in Reports: 04/12/2019
Number of Days to Update: 42

Source: Placer County Health and Human Services
Telephone: 530-745-2363
Last EDR Contact: 06/03/2019
Next Scheduled EDR Contact: 06/17/2019
Data Release Frequency: Semi-Annually

PLUMAS COUNTY:

CUPA PLUMAS: CUPA Facility List
Plumas County CUPA Program facilities.

Date of Government Version: 01/14/2019
Date Data Arrived at EDR: 01/18/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 46

Source: Plumas County Environmental Health
Telephone: 530-283-6355
Last EDR Contact: 04/22/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

RIVERSIDE COUNTY:

LUST RIVERSIDE: Listing of Underground Tank Cleanup Sites
Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 04/11/2019
Date Data Arrived at EDR: 04/12/2019
Date Made Active in Reports: 04/30/2019
Number of Days to Update: 18

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 03/18/2019
Next Scheduled EDR Contact: 07/01/2019
Data Release Frequency: Quarterly

UST RIVERSIDE: Underground Storage Tank Tank List
Underground storage tank sites located in Riverside county.

Date of Government Version: 01/29/2019
Date Data Arrived at EDR: 01/31/2019
Date Made Active in Reports: 03/08/2019
Number of Days to Update: 36

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 03/18/2019
Next Scheduled EDR Contact: 07/01/2019
Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

CS SACRAMENTO: Toxic Site Clean-Up List
List of sites where unauthorized releases of potentially hazardous materials have occurred.

Date of Government Version: 11/07/2018
Date Data Arrived at EDR: 01/04/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 60

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 04/02/2019
Next Scheduled EDR Contact: 07/15/2019
Data Release Frequency: Quarterly

ML SACRAMENTO: Master Hazardous Materials Facility List

Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 11/07/2018
Date Data Arrived at EDR: 12/28/2018
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 67

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 04/02/2019
Next Scheduled EDR Contact: 07/15/2019
Data Release Frequency: Quarterly

SAN BENITO COUNTY:

CUPA SAN BENITO: CUPA Facility List

Cupa facility list

Date of Government Version: 03/11/2019
Date Data Arrived at EDR: 03/13/2019
Date Made Active in Reports: 04/30/2019
Number of Days to Update: 48

Source: San Benito County Environmental Health
Telephone: N/A
Last EDR Contact: 05/02/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Varies

SAN BERNARDINO COUNTY:

PERMITS SAN BERNARDINO: Hazardous Material Permits

This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

Date of Government Version: 02/27/2019
Date Data Arrived at EDR: 02/28/2019
Date Made Active in Reports: 04/02/2019
Number of Days to Update: 33

Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 05/06/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Quarterly

SAN DIEGO COUNTY:

HMMD SAN DIEGO: Hazardous Materials Management Division Database

The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 03/04/2019
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 04/02/2019
Number of Days to Update: 28

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 06/04/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Quarterly

LF SAN DIEGO: Solid Waste Facilities
San Diego County Solid Waste Facilities.

Date of Government Version: 04/18/2018
Date Data Arrived at EDR: 04/24/2018
Date Made Active in Reports: 06/19/2018
Number of Days to Update: 56

Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 04/22/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

SAN DIEGO CO LOP: Local Oversight Program Listing
A listing of all LOP release sites that are or were under the County of San Diego's jurisdiction. Included are closed or transferred cases, open cases, and cases that did not have a case type indicated. The cases without a case type are mostly complaints; however, some of them could be LOP cases.

Date of Government Version: 03/06/2019
Date Data Arrived at EDR: 03/06/2019
Date Made Active in Reports: 04/29/2019
Number of Days to Update: 54

Source: Department of Environmental Health
Telephone: 858-505-6874
Last EDR Contact: 04/22/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

SAN DIEGO CO. SAM: Environmental Case Listing
The listing contains all underground tank release cases and projects pertaining to properties contaminated with hazardous substances that are actively under review by the Site Assessment and Mitigation Program.

Date of Government Version: 03/23/2010
Date Data Arrived at EDR: 06/15/2010
Date Made Active in Reports: 07/09/2010
Number of Days to Update: 24

Source: San Diego County Department of Environmental Health
Telephone: 619-338-2371
Last EDR Contact: 06/03/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: No Update Planned

SAN FRANCISCO COUNTY:

LUST SAN FRANCISCO: Local Oversite Facilities
A listing of leaking underground storage tank sites located in San Francisco county.

Date of Government Version: 09/19/2008
Date Data Arrived at EDR: 09/19/2008
Date Made Active in Reports: 09/29/2008
Number of Days to Update: 10

Source: Department Of Public Health San Francisco County
Telephone: 415-252-3920
Last EDR Contact: 05/02/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Quarterly

UST SAN FRANCISCO: Underground Storage Tank Information
Underground storage tank sites located in San Francisco county.

Date of Government Version: 11/05/2018
Date Data Arrived at EDR: 11/06/2018
Date Made Active in Reports: 12/14/2018
Number of Days to Update: 38

Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 05/02/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Quarterly

SAN JOAQUIN COUNTY:

UST SAN JOAQUIN: San Joaquin Co. UST
A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 06/22/2018
Date Data Arrived at EDR: 06/26/2018
Date Made Active in Reports: 07/11/2018
Number of Days to Update: 15

Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 03/18/2019
Next Scheduled EDR Contact: 07/01/2019
Data Release Frequency: Semi-Annually

SAN LUIS OBISPO COUNTY:

CUPA SAN LUIS OBISPO: CUPA Facility List
Cupa Facility List.

Date of Government Version: 02/13/2019
Date Data Arrived at EDR: 02/15/2019
Date Made Active in Reports: 03/14/2019
Number of Days to Update: 27

Source: San Luis Obispo County Public Health Department
Telephone: 805-781-5596
Last EDR Contact: 05/16/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Varies

SAN MATEO COUNTY:

BI SAN MATEO: Business Inventory
List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 03/04/2019
Date Data Arrived at EDR: 03/13/2019
Date Made Active in Reports: 04/29/2019
Number of Days to Update: 47

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 06/12/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Annually

LUST SAN MATEO: Fuel Leak List
A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 03/29/2019
Date Data Arrived at EDR: 03/29/2019
Date Made Active in Reports: 05/29/2019
Number of Days to Update: 61

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 06/10/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Semi-Annually

SANTA BARBARA COUNTY:

CUPA SANTA BARBARA: CUPA Facility Listing
CUPA Program Listing from the Environmental Health Services division.

Date of Government Version: 09/08/2011
Date Data Arrived at EDR: 09/09/2011
Date Made Active in Reports: 10/07/2011
Number of Days to Update: 28

Source: Santa Barbara County Public Health Department
Telephone: 805-686-8167
Last EDR Contact: 05/16/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Varies

SANTA CLARA COUNTY:

CUPA SANTA CLARA: Cupa Facility List
Cupa facility list

Date of Government Version: 02/13/2019
Date Data Arrived at EDR: 02/19/2019
Date Made Active in Reports: 03/06/2019
Number of Days to Update: 15

Source: Department of Environmental Health
Telephone: 408-918-1973
Last EDR Contact: 05/16/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Varies

HIST LUST SANTA CLARA: HIST LUST - Fuel Leak Site Activity Report
A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005
Date Data Arrived at EDR: 03/30/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 22

Source: Santa Clara Valley Water District
Telephone: 408-265-2600
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

LUST SANTA CLARA: LOP Listing
A listing of leaking underground storage tanks located in Santa Clara county.

Date of Government Version: 03/03/2014
Date Data Arrived at EDR: 03/05/2014
Date Made Active in Reports: 03/18/2014
Number of Days to Update: 13

Source: Department of Environmental Health
Telephone: 408-918-3417
Last EDR Contact: 05/24/2019
Next Scheduled EDR Contact: 09/09/2019
Data Release Frequency: Annually

SAN JOSE HAZMAT: Hazardous Material Facilities
Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 01/30/2019
Date Data Arrived at EDR: 02/01/2019
Date Made Active in Reports: 03/07/2019
Number of Days to Update: 34

Source: City of San Jose Fire Department
Telephone: 408-535-7694
Last EDR Contact: 05/16/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Annually

SANTA CRUZ COUNTY:

CUPA SANTA CRUZ: CUPA Facility List
CUPA facility listing.

Date of Government Version: 01/21/2017
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 90

Source: Santa Cruz County Environmental Health
Telephone: 831-464-2761
Last EDR Contact: 05/16/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Varies

SHASTA COUNTY:

CUPA SHASTA: CUPA Facility List
Cupa Facility List.

Date of Government Version: 06/15/2017
Date Data Arrived at EDR: 06/19/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 51

Source: Shasta County Department of Resource Management
Telephone: 530-225-5789
Last EDR Contact: 05/16/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Varies

SOLANO COUNTY:

LUST SOLANO: Leaking Underground Storage Tanks
A listing of leaking underground storage tank sites located in Solano county.

Date of Government Version: 03/05/2019
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 04/29/2019
Number of Days to Update: 53

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 06/03/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Quarterly

UST SOLANO: Underground Storage Tanks
Underground storage tank sites located in Solano county.

Date of Government Version: 03/05/2019
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 04/03/2019
Number of Days to Update: 27

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 06/03/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Quarterly

SONOMA COUNTY:

CUPA SONOMA: Cupa Facility List
Cupa Facility list

Date of Government Version: 03/18/2019
Date Data Arrived at EDR: 03/26/2019
Date Made Active in Reports: 05/01/2019
Number of Days to Update: 36

Source: County of Sonoma Fire & Emergency Services Department
Telephone: 707-565-1174
Last EDR Contact: 03/25/2019
Next Scheduled EDR Contact: 07/08/2019
Data Release Frequency: Varies

LUST SONOMA: Leaking Underground Storage Tank Sites
A listing of leaking underground storage tank sites located in Sonoma county.

Date of Government Version: 04/03/2019
Date Data Arrived at EDR: 04/11/2019
Date Made Active in Reports: 04/30/2019
Number of Days to Update: 19

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 04/08/2019
Next Scheduled EDR Contact: 07/08/2019
Data Release Frequency: Quarterly

STANISLAUS COUNTY:

CUPA STANISLAUS: CUPA Facility List
Cupa facility list

Date of Government Version: 12/11/2018
Date Data Arrived at EDR: 12/13/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 33

Source: Stanislaus County Department of Ennvironmental Protection
Telephone: 209-525-6751
Last EDR Contact: 04/15/2019
Next Scheduled EDR Contact: 07/29/2019
Data Release Frequency: Varies

SUTTER COUNTY:

UST SUTTER: Underground Storage Tanks
Underground storage tank sites located in Sutter county.

Date of Government Version: 02/28/2019
Date Data Arrived at EDR: 03/01/2019
Date Made Active in Reports: 04/03/2019
Number of Days to Update: 33

Source: Sutter County Environmental Health Services
Telephone: 530-822-7500
Last EDR Contact: 06/03/2019
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Semi-Annually

TEHAMA COUNTY:

CUPA TEHAMA: CUPA Facility List
Cupa facilities

Date of Government Version: 12/13/2018
Date Data Arrived at EDR: 12/18/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 28

Source: Tehama County Department of Environmental Health
Telephone: 530-527-8020
Last EDR Contact: 05/16/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Varies

TRINITY COUNTY:

CUPA TRINITY: CUPA Facility List
Cupa facility list

Date of Government Version: 01/18/2019
Date Data Arrived at EDR: 01/23/2019
Date Made Active in Reports: 03/06/2019
Number of Days to Update: 42

Source: Department of Toxic Substances Control
Telephone: 760-352-0381
Last EDR Contact: 04/22/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

TULARE COUNTY:

CUPA TULARE: CUPA Facility List
Cupa program facilities

Date of Government Version: 12/26/2018
Date Data Arrived at EDR: 12/27/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 19

Source: Tulare County Environmental Health Services Division
Telephone: 559-624-7400
Last EDR Contact: 05/06/2019
Next Scheduled EDR Contact: 08/19/2019
Data Release Frequency: Varies

TUOLUMNE COUNTY:

CUPA TUOLUMNE: CUPA Facility List
Cupa facility list

Date of Government Version: 04/23/2018
Date Data Arrived at EDR: 04/25/2018
Date Made Active in Reports: 06/25/2018
Number of Days to Update: 61

Source: Divison of Environmental Health
Telephone: 209-533-5633
Last EDR Contact: 05/02/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

VENTURA COUNTY:

BWT VENTURA: Business Plan, Hazardous Waste Producers, and Operating Underground Tanks
The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 12/26/2018
Date Data Arrived at EDR: 01/24/2019
Date Made Active in Reports: 02/28/2019
Number of Days to Update: 35

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 04/23/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Quarterly

LF VENTURA: Inventory of Illegal Abandoned and Inactive Sites
Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 12/01/2011
Date Data Arrived at EDR: 12/01/2011
Date Made Active in Reports: 01/19/2012
Number of Days to Update: 49

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 03/29/2019
Next Scheduled EDR Contact: 07/15/2019
Data Release Frequency: Annually

LUST VENTURA: Listing of Underground Tank Cleanup Sites
Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 05/29/2008
Date Data Arrived at EDR: 06/24/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 37

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 05/09/2019
Next Scheduled EDR Contact: 08/26/2019
Data Release Frequency: Quarterly

MED WASTE VENTURA: Medical Waste Program List
To protect public health and safety and the environment from potential exposure to disease causing agents, the Environmental Health Division Medical Waste Program regulates the generation, handling, storage, treatment and disposal of medical waste throughout the County.

Date of Government Version: 03/26/2019
Date Data Arrived at EDR: 04/25/2019
Date Made Active in Reports: 05/30/2019
Number of Days to Update: 35

Source: Ventura County Resource Management Agency
Telephone: 805-654-2813
Last EDR Contact: 04/23/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Quarterly

UST VENTURA: Underground Tank Closed Sites List
Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 02/26/2019
Date Data Arrived at EDR: 03/13/2019
Date Made Active in Reports: 04/03/2019
Number of Days to Update: 21

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 06/12/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Quarterly

YOLO COUNTY:

UST YOLO: Underground Storage Tank Comprehensive Facility Report
Underground storage tank sites located in Yolo county.

Date of Government Version: 12/26/2018
Date Data Arrived at EDR: 01/03/2019
Date Made Active in Reports: 01/16/2019
Number of Days to Update: 13

Source: Yolo County Department of Health
Telephone: 530-666-8646
Last EDR Contact: 03/29/2019
Next Scheduled EDR Contact: 07/15/2019
Data Release Frequency: Annually

YUBA COUNTY:

CUPA YUBA: CUPA Facility List
CUPA facility listing for Yuba County.

Date of Government Version: 02/08/2019
Date Data Arrived at EDR: 02/12/2019
Date Made Active in Reports: 03/06/2019
Number of Days to Update: 22

Source: Yuba County Environmental Health Department
Telephone: 530-749-7523
Last EDR Contact: 04/25/2019
Next Scheduled EDR Contact: 08/12/2019
Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data
Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 02/11/2019
Date Data Arrived at EDR: 02/12/2019
Date Made Active in Reports: 03/04/2019
Number of Days to Update: 20

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 05/14/2019
Next Scheduled EDR Contact: 08/26/2019
Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 04/10/2019
Date Made Active in Reports: 05/16/2019
Number of Days to Update: 36

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 04/10/2019
Next Scheduled EDR Contact: 07/22/2019
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data
Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 01/01/2019
Date Data Arrived at EDR: 01/30/2019
Date Made Active in Reports: 02/14/2019
Number of Days to Update: 15

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 05/01/2019
Next Scheduled EDR Contact: 08/12/2019
Data Release Frequency: Quarterly

PA MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 10/23/2018
Date Made Active in Reports: 11/27/2018
Number of Days to Update: 35

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 04/15/2019
Next Scheduled EDR Contact: 07/29/2019
Data Release Frequency: Annually

RI MANIFEST: Manifest information
Hazardous waste manifest information

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 02/23/2018
Date Made Active in Reports: 04/09/2018
Number of Days to Update: 45

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 05/17/2019
Next Scheduled EDR Contact: 09/02/2019
Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 06/15/2018
Date Made Active in Reports: 07/09/2018
Number of Days to Update: 24

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 06/10/2019
Next Scheduled EDR Contact: 09/23/2019
Data Release Frequency: Annually

Oil/Gas Pipelines
Source: PennWell Corporation
Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Electric Power Transmission Line Data
Source: PennWell Corporation
This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Licensed Facilities
Source: Department of Social Services
Telephone: 916-657-4041

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish and Wildlife
Telephone: 916-445-0411

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

STREET AND ADDRESS INFORMATION

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GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

CAL STATE UNIVERSITY FULLERTON
800 N STATE COLLEGE BOULEVARD
FULLERTON, CA 92831

TARGET PROPERTY COORDINATES

Latitude (North):	33.883149 - 33˚ 52' 59.34''
Longitude (West):	117.885404 - 117˚ 53' 7.45''
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	418120.0
UTM Y (Meters):	3749358.5
Elevation:	250 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	5640256 LA HABRA, CA
Version Date:	2012
Northeast Map:	5640946 YORBA LINDA, CA
Version Date:	2012
Southeast Map:	5641308 ORANGE, CA
Version Date:	2012
Southwest Map:	5641294 ANAHEIM, CA
Version Date:	2012

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

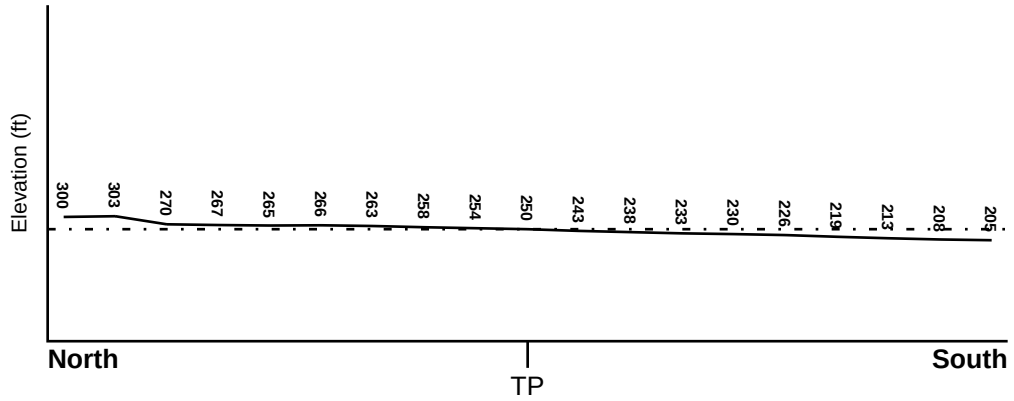
TOPOGRAPHIC INFORMATION

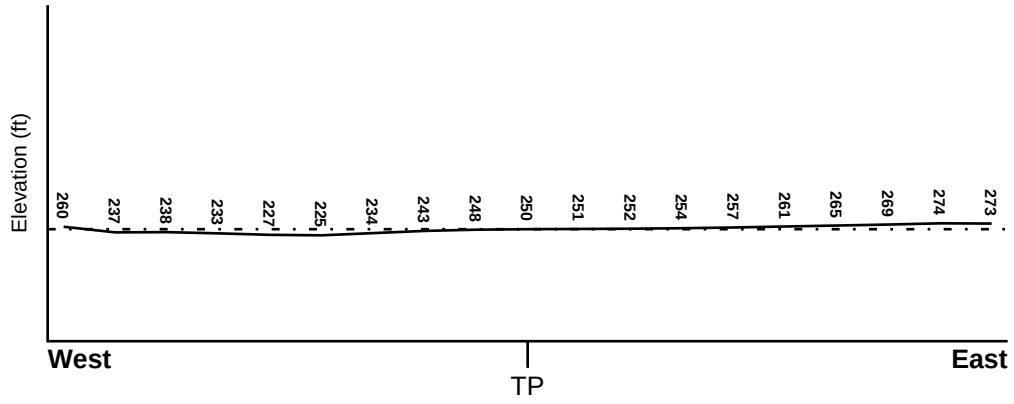
Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

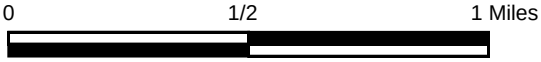
General Topographic Gradient: General SSW

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES





Target Property Elevation: 250 ft.



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Flood Plain Panel at Target Property	FEMA Source Type
06037C1875F	FEMA FIRM Flood data

Additional Panels in search area:	FEMA Source Type
06059C0063J	FEMA FIRM Flood data
06059C0044J	FEMA FIRM Flood data
06059C0132J	FEMA FIRM Flood data
06059C0151J	FEMA FIRM Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
LA HABRA	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius:	1.25 miles
Status:	Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
1	1/2 - 1 Mile ESE	W
2	1/2 - 1 Mile SE	S
A3	1/2 - 1 Mile NE	SW
4	1/2 - 1 Mile SSW	Not Reported
A5	1/2 - 1 Mile NE	NE

* ©1996 Site−specific hydrogeological data gathered by CERCLIS Alerts, Inc., Bainbridge Island, WA. All rights reserved. All of the information and opinions presented are those of the cited EPA report(s), which were completed under a Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) investigation.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
6	1/2 - 1 Mile SSE	W
7	1/2 - 1 Mile SE	S
1G	1/2 - 1 Mile NE	NE
2G	1/2 - 1 Mile NE	SW
3G	1/2 - 1 Mile ESE	W
4G	1/2 - 1 Mile SE	S
5G	1/2 - 1 Mile SSW	Not Reported
6G	1/2 - 1 Mile SSE	W
7G	1/2 - 1 Mile SE	S

For additional site information, refer to Physical Setting Source Map Findings.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

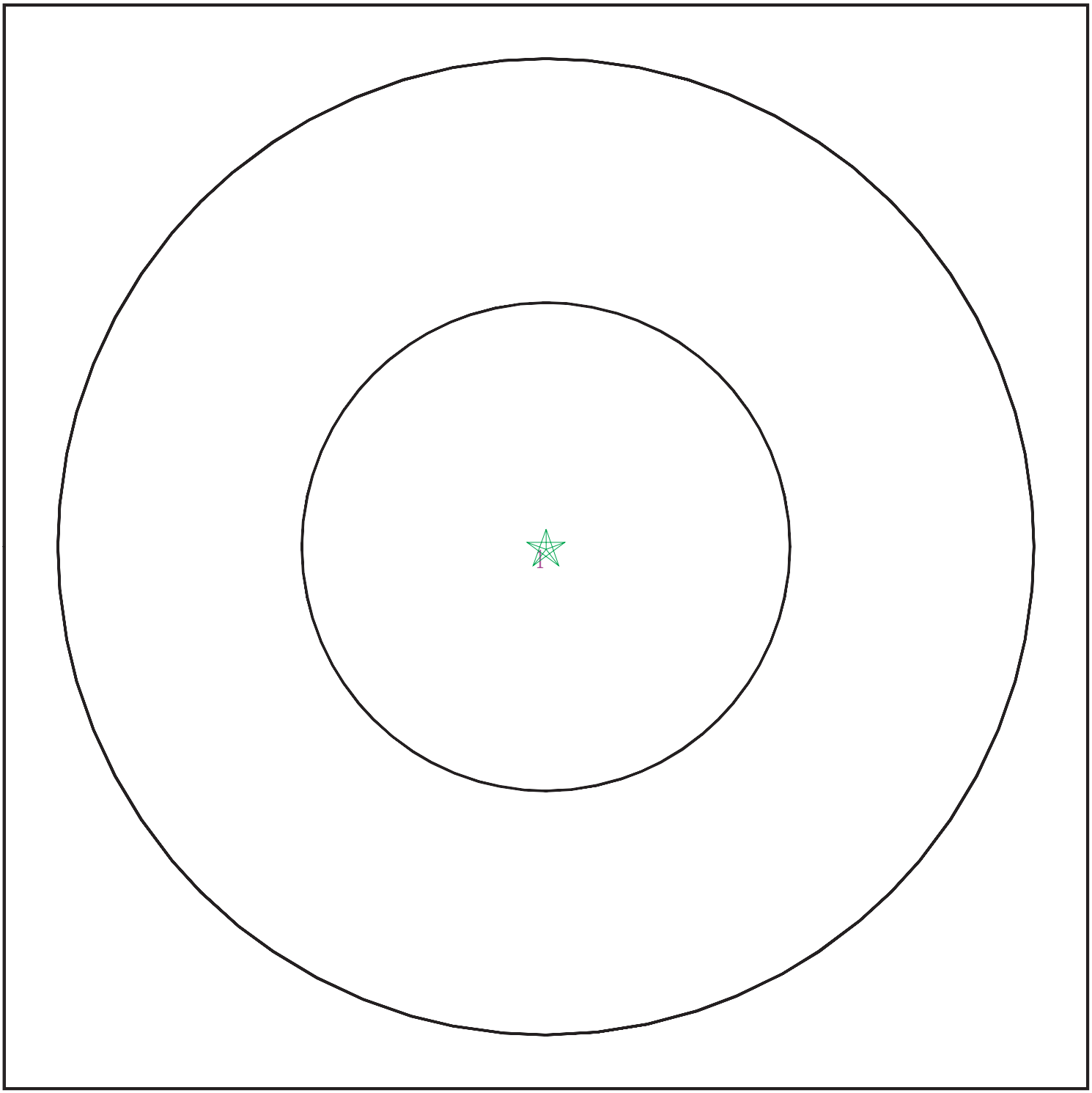
Era:	Cenozoic
System:	Quaternary
Series:	Quaternary
Code:	Q *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Stratifed Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 05685060.2r



Target Property

SSURGO Soil

Water

0 1/16 1/8 1/4 Miles

N

SITE NAME:	Cal State University Fullerton	CLIENT:	Rincon
ADDRESS:	800 N State College Boulevard Fullerton CA 92831	CONTACT:	Lauren Kodama Roenicke
		INQUIRY #:	05685060.2r
LAT/LONG:	33.883149 / 117.885404	DATE:	June 15, 2019 7:22 am

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GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: MOCHO

Soil Surface Texture: loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	31 inches	loam	Not reported	Not reported	Max: 14 Min: 4	Max: 8.4 Min: 7.9
2	31 inches	61 inches	loam	Not reported	Not reported	Max: 14 Min: 4	Max: 8.4 Min: 7.9

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 0.001 miles
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No Wells Found		

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

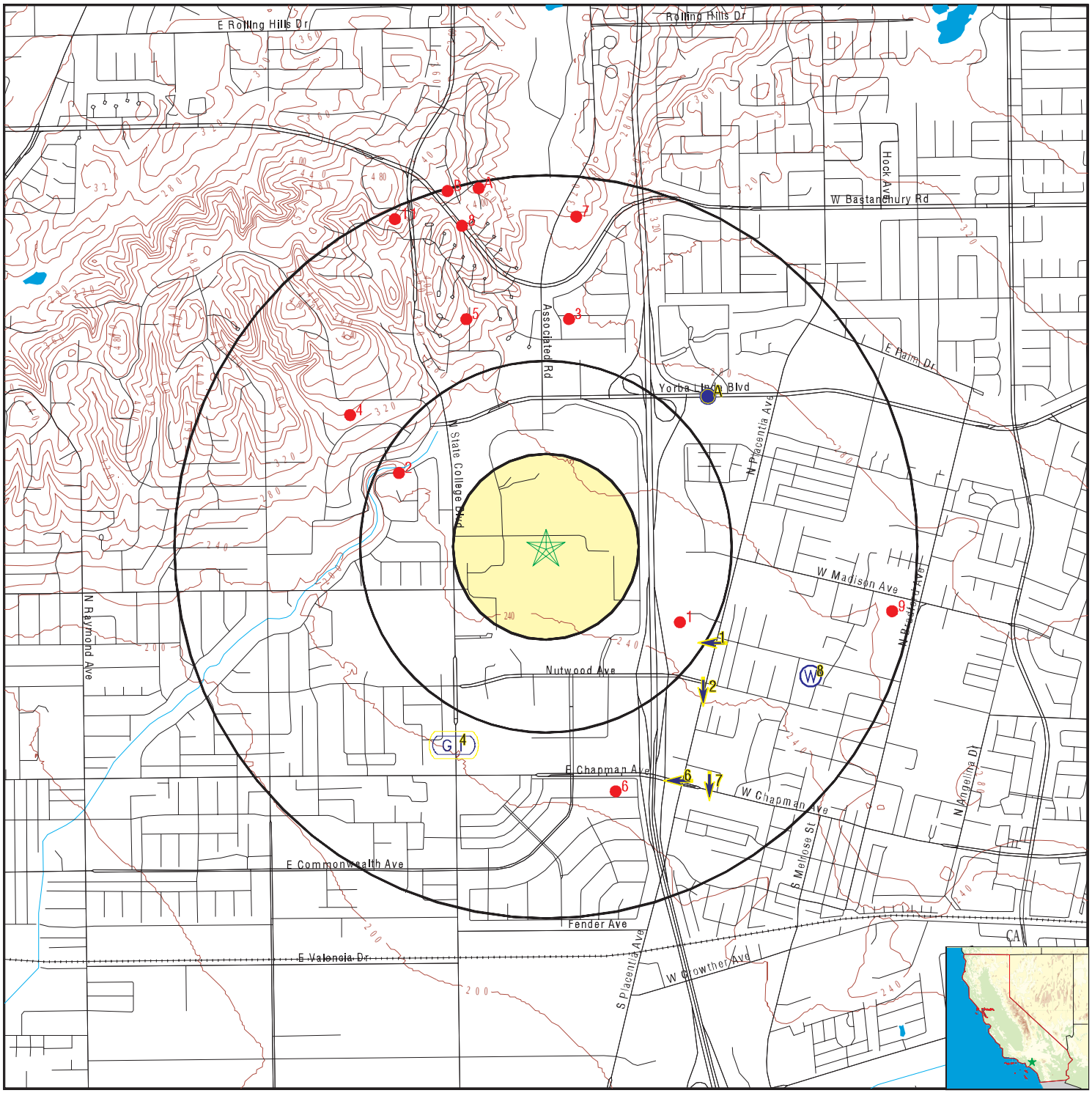
MAP ID	WELL ID	LOCATION FROM TP
8	CADWR8000006008	1/2 - 1 Mile ESE

OTHER STATE DATABASE INFORMATION

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1	CAOG13000006128	1/4 - 1/2 Mile ESE
2	CAOG13000006130	1/4 - 1/2 Mile WNW
3	CAOG13000073929	1/2 - 1 Mile North
4	CAOG13000006173	1/2 - 1 Mile NW
5	CAOG13000073731	1/2 - 1 Mile NNW
6	CAOG13000006124	1/2 - 1 Mile SSE
7	CAOG13000073794	1/2 - 1 Mile North
8	CAOG13000074062	1/2 - 1 Mile NNW
9	CAOG13000200846	1/2 - 1 Mile East
A10	CAOG13000073756	1/2 - 1 Mile North
11	CAOG13000074048	1/2 - 1 Mile NNW
A12	CAOG13000073759	1/2 - 1 Mile NNW
B13	CAOG13000073876	1/2 - 1 Mile NNW
B14	CAOG13000073755	1/2 - 1 Mile NNW
A15	CAOG13000073760	1/2 - 1 Mile North

PHYSICAL SETTING SOURCE MAP - 05685060.2r



County Boundary
Major Roads
Contour Lines
Earthquake Fault Lines
Earthquake epicenter, Richter 5 or greater
Water Wells
Public Water Supply Wells
Cluster of Multiple Icons

0 1/4 1/2 1 Miles

Groundwater Flow Direction
Indeterminate Groundwater Flow at Location
Groundwater Flow Varies at Location
Closest Hydrogeological Data
Oil, gas or related wells

N

SITE NAME:	Cal State University Fullerton	CLIENT:	Rincon
ADDRESS:	800 N State College Boulevard Fullerton CA 92831	CONTACT:	Lauren Kodama Roenicke
		INQUIRY #:	05685060.2r
LAT/LONG:	33.883149 / 117.885404	DATE:	June 15, 2019 7:22 am

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation			Database	EDR ID Number
1 **ESE** **1/2 - 1 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	083002045T W 83.78 86.38 Not Reported 09/28/1998	**AQUIFLOW**	**38871**
2 **SE** **1/2 - 1 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	083000226T S Not Reported Not Reported 120 01/16/1997	**AQUIFLOW**	**54999**
A3 **NE** **1/2 - 1 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	083002146T SW 143.0 156.5 Not Reported 04/30/1998	**AQUIFLOW**	**66455**
4 **SSW** **1/2 - 1 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	083000847T Not Reported 85.5 128 Not Reported 05/18/1998	**AQUIFLOW**	**54956**
A5 **NE** **1/2 - 1 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	083000567T NE Not Reported Not Reported 124 06/30/1998	**AQUIFLOW**	**38873**
6 **SSE** **1/2 - 1 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	083001404T W 71 150 Not Reported 09/30/1994	**AQUIFLOW**	**65372**
7 **SE** **1/2 - 1 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	083002244T S 70.83 86.71 Not Reported 12/31/1996	**AQUIFLOW**	**67236**

Map ID Direction Distance Elevation			Database	EDR ID Number
8 **ESE** **1/2 - 1 Mile** **Lower**			**CA WELLS**	**CADWR8000006008**
State Well #:	03S10W25R001S	Station ID:	25122	
Well Name:	Not Reported	Well Use:	Unknown	
Well Type:	Unknown	Well Depth:	0	
Basin Name:	Coastal Plain Of Orange County			
Well Completion Rpt #:	Not Reported			

1G **NE** **1/2 - 1 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	083000567T NE Not Reported Not Reported 124 06/30/1998	**AQUIFLOW**	**38873**
2G **NE** **1/2 - 1 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	083002146T SW 143.0 156.5 Not Reported 04/30/1998	**AQUIFLOW**	**66455**
3G **ESE** **1/2 - 1 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	083002045T W 83.78 86.38 Not Reported 09/28/1998	**AQUIFLOW**	**38871**
4G **SE** **1/2 - 1 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	083000226T S Not Reported Not Reported 120 01/16/1997	**AQUIFLOW**	**54999**
5G **SSW** **1/2 - 1 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	083000847T Not Reported 85.5 128 Not Reported 05/18/1998	**AQUIFLOW**	**54956**
6G **SSE** **1/2 - 1 Mile** **Lower**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	083001404T W 71 150 Not Reported 09/30/1994	**AQUIFLOW**	**65372**

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation			Database	EDR ID Number
7G **SE** **1/2 - 1 Mile** **Lower**	Site ID:	083002244T	**AQUIFLOW**	**67236**
	Groundwater Flow:	S		
	Shallow Water Depth:	70.83		
	Deep Water Depth:	86.71		
	Average Water Depth:	Not Reported		
	Date:	12/31/1996		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance	Database	EDR ID Number

1
ESE
1/4 - 1/2 Mile

OIL_GAS **CAOG13000006128**

API #:	0405901115	Well #:	1
Well Status:	Plugged	Well Type:	DH
Operator Name:	Richard S. Rheem	Lease Name:	Placentia Fruit Company
Field Name:	Any Field	Area Name:	Any Area
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

2
WNW
1/4 - 1/2 Mile

OIL_GAS **CAOG13000006130**

API #:	0405901117	Well #:	1
Well Status:	Plugged	Well Type:	DH
Operator Name:	Rothschild Oil Co.	Lease Name:	Chapman
Field Name:	Any Field	Area Name:	Any Area
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

3
North
1/2 - 1 Mile

OIL_GAS **CAOG13000073929**

API #:	0405905011	Well #:	1
Well Status:	Idle	Well Type:	OG
Operator Name:	Klokke Investment Co.	Lease Name:	Lease by Klokke Investment Co.
Field Name:	Coyote, East	Area Name:	Any Area
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

4
NW
1/2 - 1 Mile

OIL_GAS **CAOG13000006173**

API #:	0405901161	Well #:	1
Well Status:	Plugged	Well Type:	DH
Operator Name:	Chevron U.S.A. Inc.	Lease Name:	Chapman
Field Name:	Any Field	Area Name:	Any Area
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

Map ID
Direction
Distance

	Database	EDR ID Number
5 **NNW** **1/2 - 1 Mile**	**OIL_GAS**	**CAOG13000073731**

API #:	0405904812	Well #:	1
Well Status:	Idle	Well Type:	OG
Operator Name:	J. M. Hale	Lease Name:	Lease by J. M. Hale
Field Name:	Coyote, East	Area Name:	Any Area
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

---

6 **SSE** **1/2 - 1 Mile**	**OIL_GAS**	**CAOG13000006124**

API #:	0405901111	Well #:	1
Well Status:	Plugged	Well Type:	DH
Operator Name:	Providence Oil Co.	Lease Name:	Chapman
Field Name:	Any Field	Area Name:	Any Area
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

---

7 **North** **1/2 - 1 Mile**	**OIL_GAS**	**CAOG13000073794**

API #:	0405904875	Well #:	1
Well Status:	Plugged	Well Type:	OG
Operator Name:	Pyramid Oil Company	Lease Name:	Strain
Field Name:	Coyote, East	Area Name:	Any Area
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

---

8 **NNW** **1/2 - 1 Mile**	**OIL_GAS**	**CAOG13000074062**

API #:	0405905344	Well #:	27
Well Status:	Plugged	Well Type:	OG
Operator Name:	Union Oil Company of California		
Lease Name:	Hole	Field Name:	Coyote, East
Area Name:	Any Area	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
SPUD Date:	Not Reported		

Map ID Direction Distance	Database	EDR ID Number

9
East
1/2 - 1 Mile

OIL_GAS **CAOG13000200846**

API #:	0405906640	Well #:	12-1
Well Status:	Plugged	Well Type:	OG
Operator Name:	Chevron U.S.A. Inc.	Lease Name:	Community
Field Name:	Richfield	Area Name:	Any Area
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

A10
North
1/2 - 1 Mile

OIL_GAS **CAOG13000073756**

API #:	0405904837	Well #:	25
Well Status:	Plugged	Well Type:	OG
Operator Name:	J. M. Peters Co. Inc.	Lease Name:	Anaheim Union
Field Name:	Coyote, East	Area Name:	Any Area
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

11
NNW
1/2 - 1 Mile

OIL_GAS **CAOG13000074048**

API #:	0405905330	Well #:	11
Well Status:	Plugged	Well Type:	OG
Operator Name:	Union Oil Company of California		
Lease Name:	Hole	Field Name:	Coyote, East
Area Name:	Any Area	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
SPUD Date:	Not Reported		

A12
NNW
1/2 - 1 Mile

OIL_GAS **CAOG13000073759**

API #:	0405904840	Well #:	28
Well Status:	Plugged	Well Type:	OG
Operator Name:	J. M. Peters Co. Inc.	Lease Name:	Anaheim Union
Field Name:	Coyote, East	Area Name:	Any Area
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

Map ID Direction Distance	Database	EDR ID Number

B13
NNW
1/2 - 1 Mile

OIL_GAS **CAOG13000073876**

API #:	0405904957	Well #:	5
Well Status:	Plugged	Well Type:	OG
Operator Name:	Union Oil Company of California		
Lease Name:	Hualde Fee	Field Name:	Coyote, East
Area Name:	Any Area	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
SPUD Date:	Not Reported		

B14
NNW
1/2 - 1 Mile

OIL_GAS **CAOG13000073755**

API #:	0405904836	Well #:	24
Well Status:	Plugged	Well Type:	OG
Operator Name:	J. M. Peters Co. Inc.	Lease Name:	Anaheim Union
Field Name:	Coyote, East	Area Name:	Any Area
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

A15
North
1/2 - 1 Mile

OIL_GAS **CAOG13000073760**

API #:	0405904841	Well #:	29
Well Status:	Plugged	Well Type:	OG
Operator Name:	J. M. Peters Co. Inc.	Lease Name:	Anaheim Union
Field Name:	Coyote, East	Area Name:	Any Area
GIS Source:	hud	Confidential Well:	N
Directionally Drilled:	N	SPUD Date:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

Zipcode	Num Tests	> 4 pCi/L
92831	42	3

Federal EPA Radon Zone for ORANGE County: 3

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for ORANGE COUNTY, CA

Number of sites tested: 30

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.763 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	Not Reported	Not Reported	Not Reported	Not Reported

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish and Wildlife
Telephone: 916-445-0411

HYDROGEOLOGIC INFORMATION

AQUIFLOW[R] Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Water Well Database
Source: Department of Water Resources
Telephone: 916-651-9648

California Drinking Water Quality Database
Source: Department of Public Health
Telephone: 916-324-2319
The database includes all drinking water compliance and special studies monitoring for the state of California since 1984. It consists of over 3,200,000 individual analyses along with well and water system information.

OTHER STATE DATABASE INFORMATION

California Oil and Gas Well Locations
Source: Department of Conservation
Telephone: 916-323-1779
Oil and Gas well locations in the state.

California Earthquake Fault Lines
Source: California Division of Mines and Geology
The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

RADON

State Database: CA Radon
Source: Department of Public Health
Telephone: 916-210-8558
Radon Database for California

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

California Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines, prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

STREET AND ADDRESS INFORMATION

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Appendix E

Historical Research Documentation

Cal State University Fullerton

800 N State College Boulevard

Fullerton, CA 92831

Inquiry Number: 5685060.8

June 17, 2019

The EDR Aerial Photo Decade Package

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Aerial Photo Decade Package

06/17/19

Site Name:

Cal State University Fullerton
800 N State College Boulevard
Fullerton, CA 92831
EDR Inquiry # 5685060.8

Client Name:

Rincon
180 North Ashwood Avenue
Ventura, CA 93003-0000
Contact: Lauren Kodama Roenicke

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

Search Results:

Year	*Scale*	*Details*	*Source*
2016	1"=500'	Flight Year: 2016	USDA/NAIP
2012	1"=500'	Flight Year: 2012	USDA/NAIP
2009	1"=500'	Flight Year: 2009	USDA/NAIP
2005	1"=500'	Flight Year: 2005	USDA/NAIP
2002	1"=750'	Flight Date: June 05, 2002	USGS
1995	1"=500'	Acquisition Date: October 03, 1995	USGS/DOQQ
1990	1"=500'	Flight Date: September 06, 1990	USDA
1989	1"=500'	Flight Date: August 03, 1989	USDA
1987	1"=500'	Flight Date: March 29, 1987	USDA
1977	1"=500'	Flight Date: January 18, 1977	EDR Proprietary Brewster Pacific
1972	1"=500'	Flight Date: October 30, 1972	USGS
1963	1"=500'	Flight Date: February 28, 1963	USGS
1952	1"=500'	Flight Date: December 26, 1952	USDA
1947	1"=500'	Flight Date: June 18, 1947	FAIR
1938	1"=500'	Flight Date: June 21, 1938	USDA

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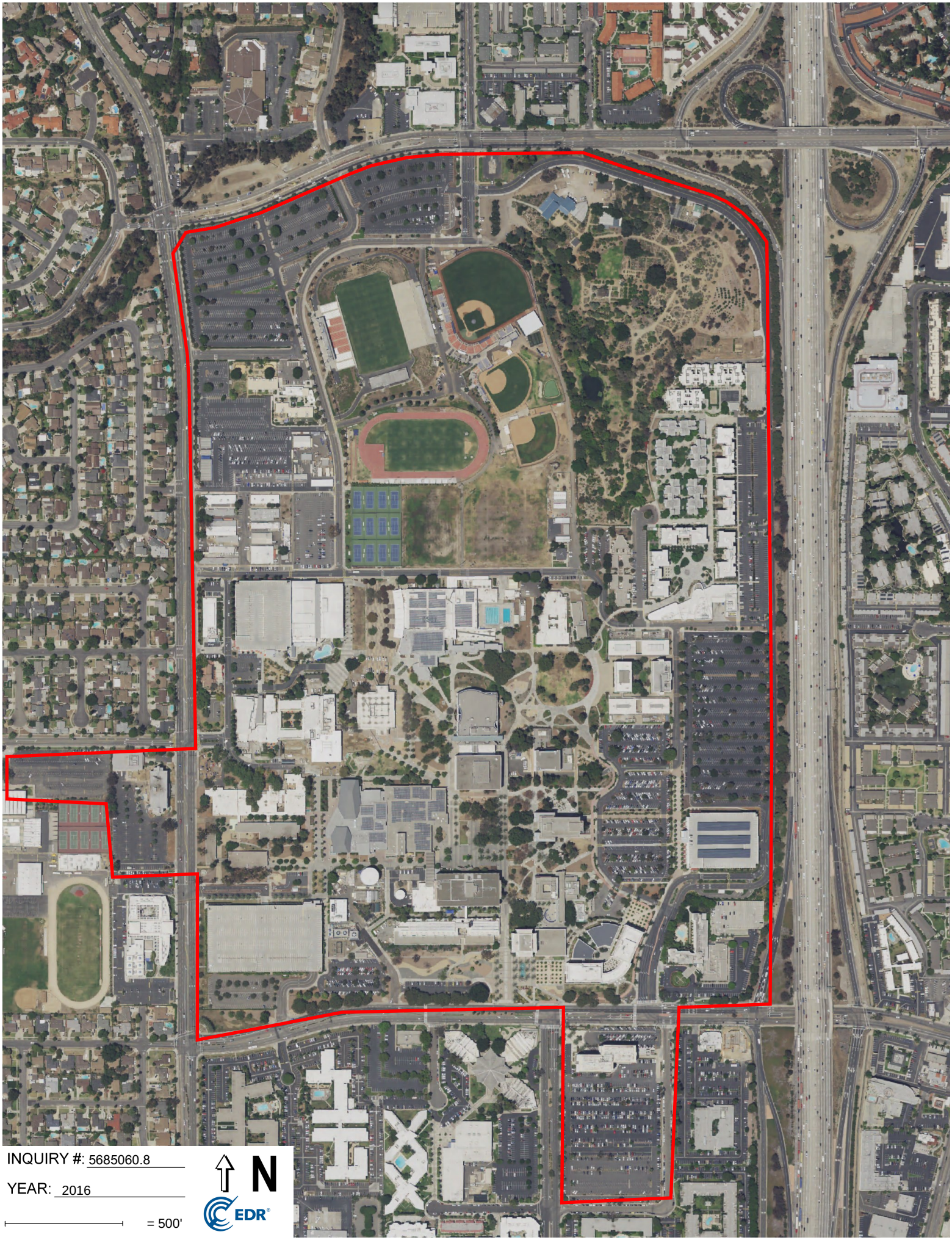


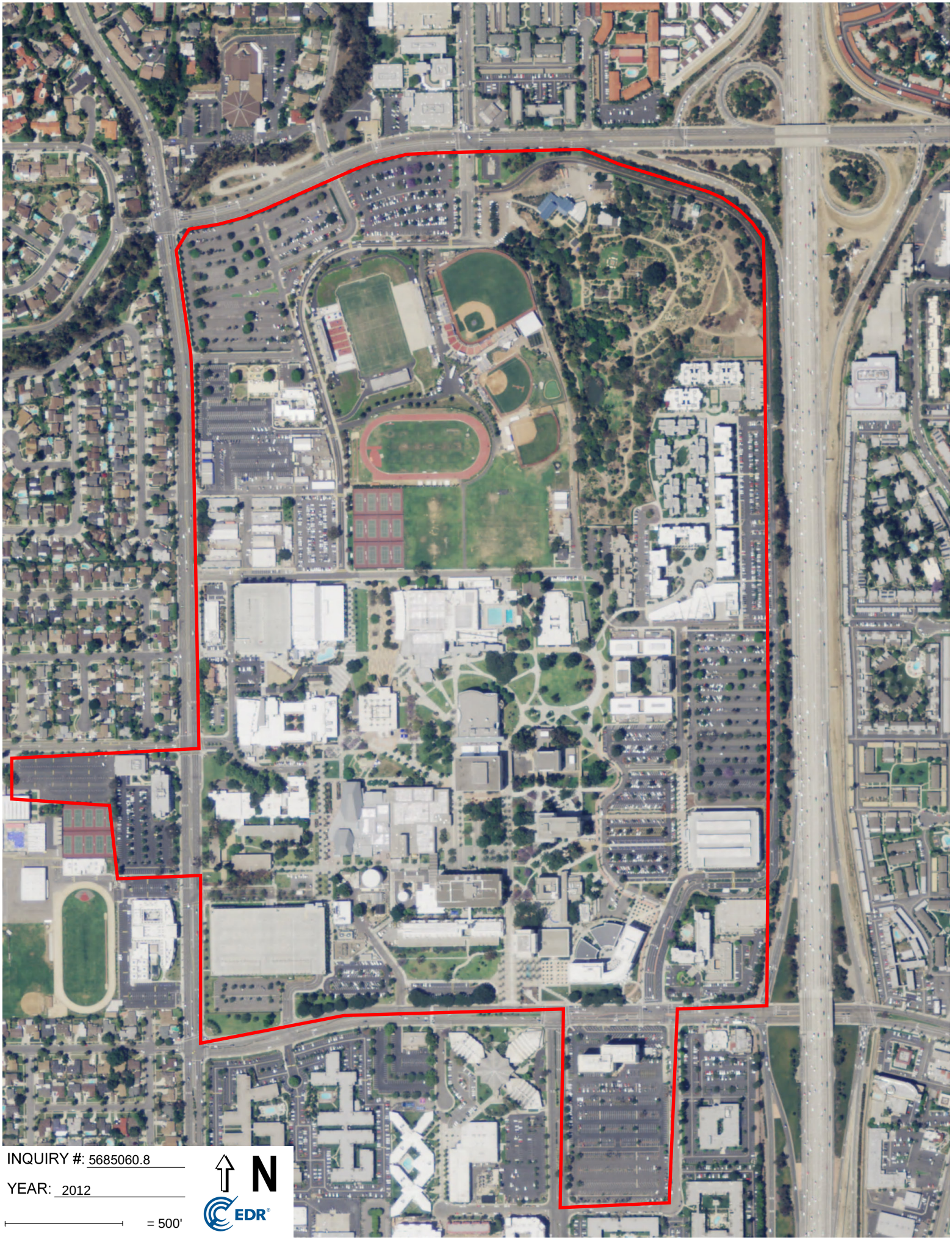
INQUIRY #: 5685060.8

YEAR: 2016

= 500'

N

EDR



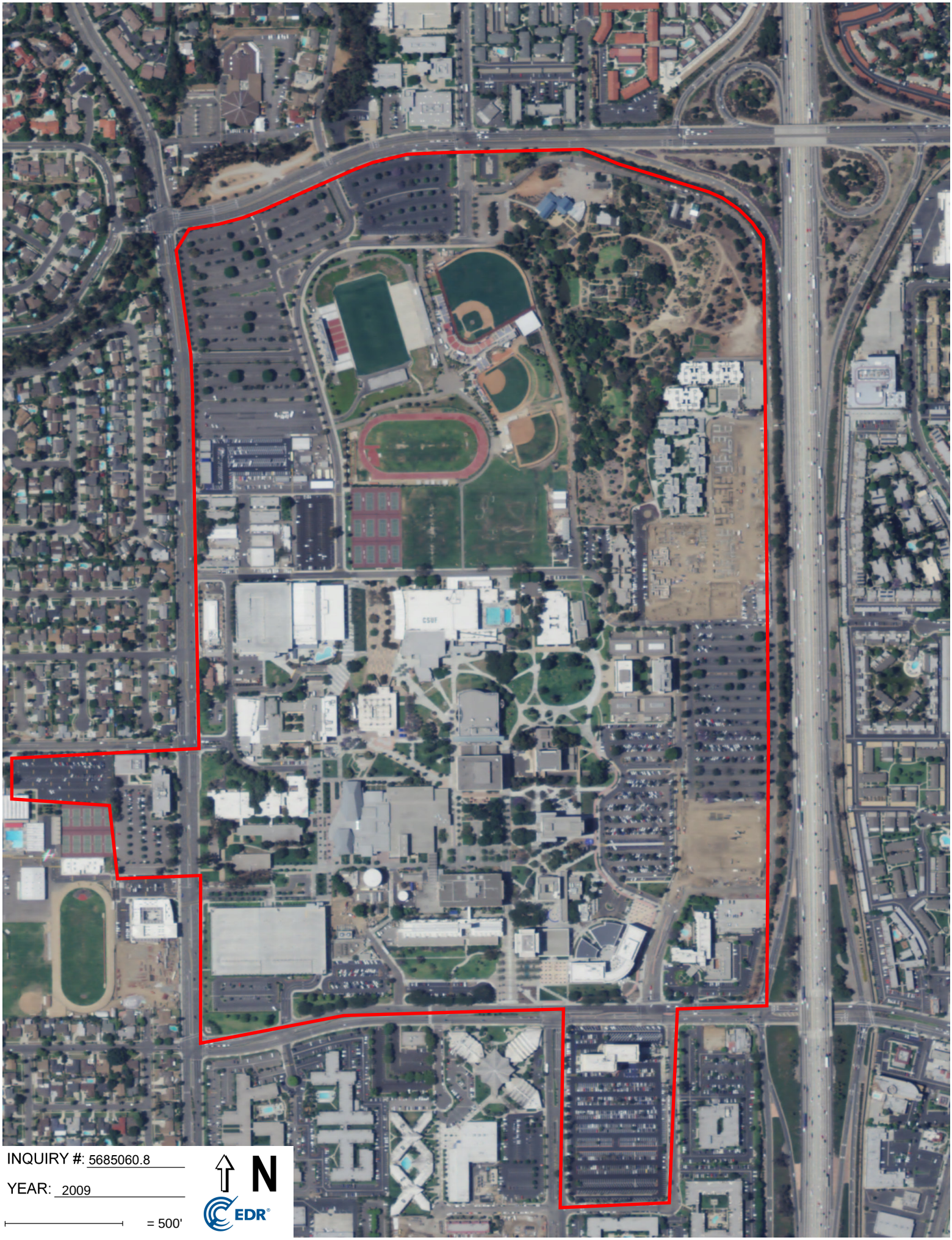
INQUIRY #: 5685060.8

YEAR: 2012

= 500'

N

EDR



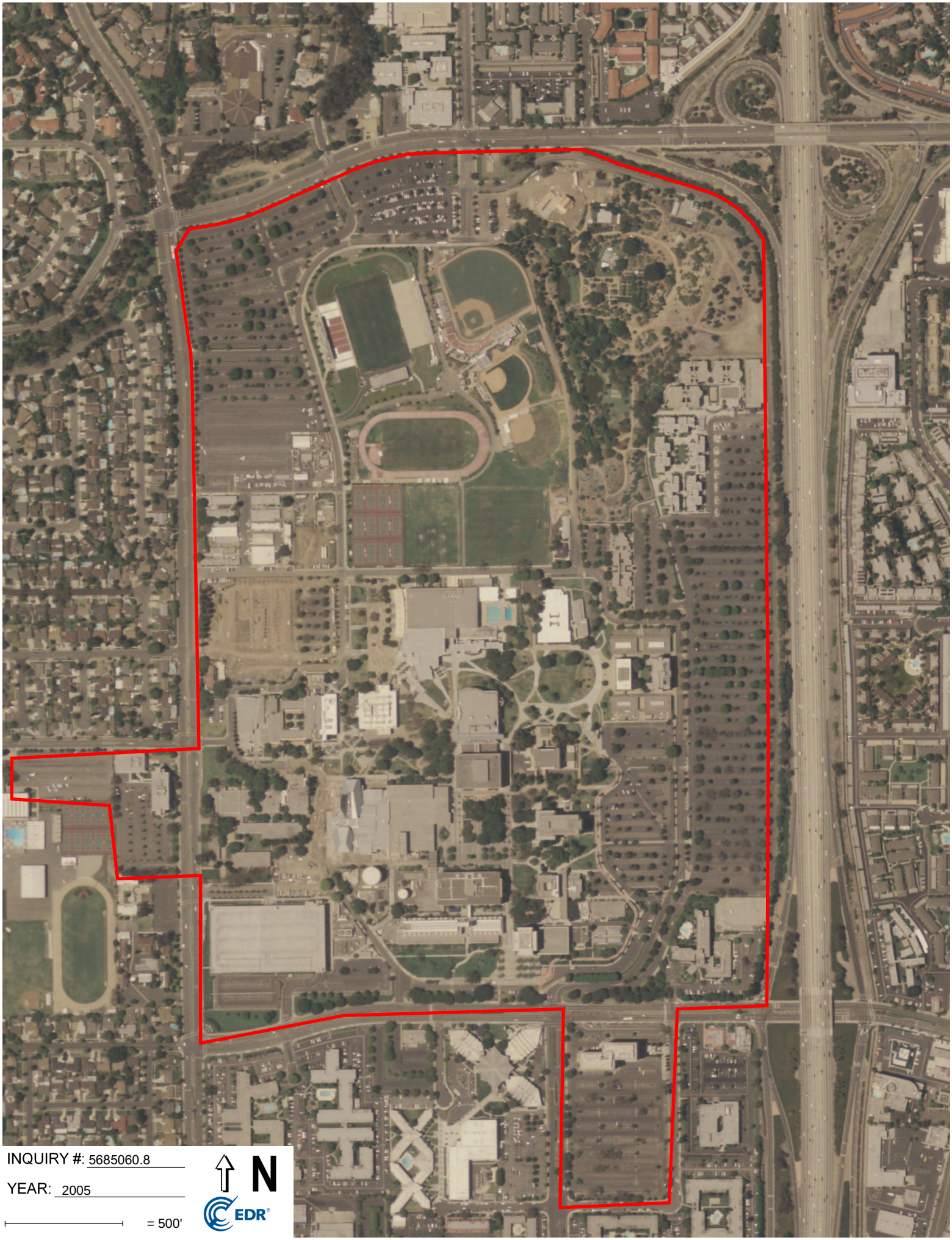
INQUIRY #: 5685060.8

YEAR: 2009

= 500'

N

EDR



INQUIRY #: 5685060.8

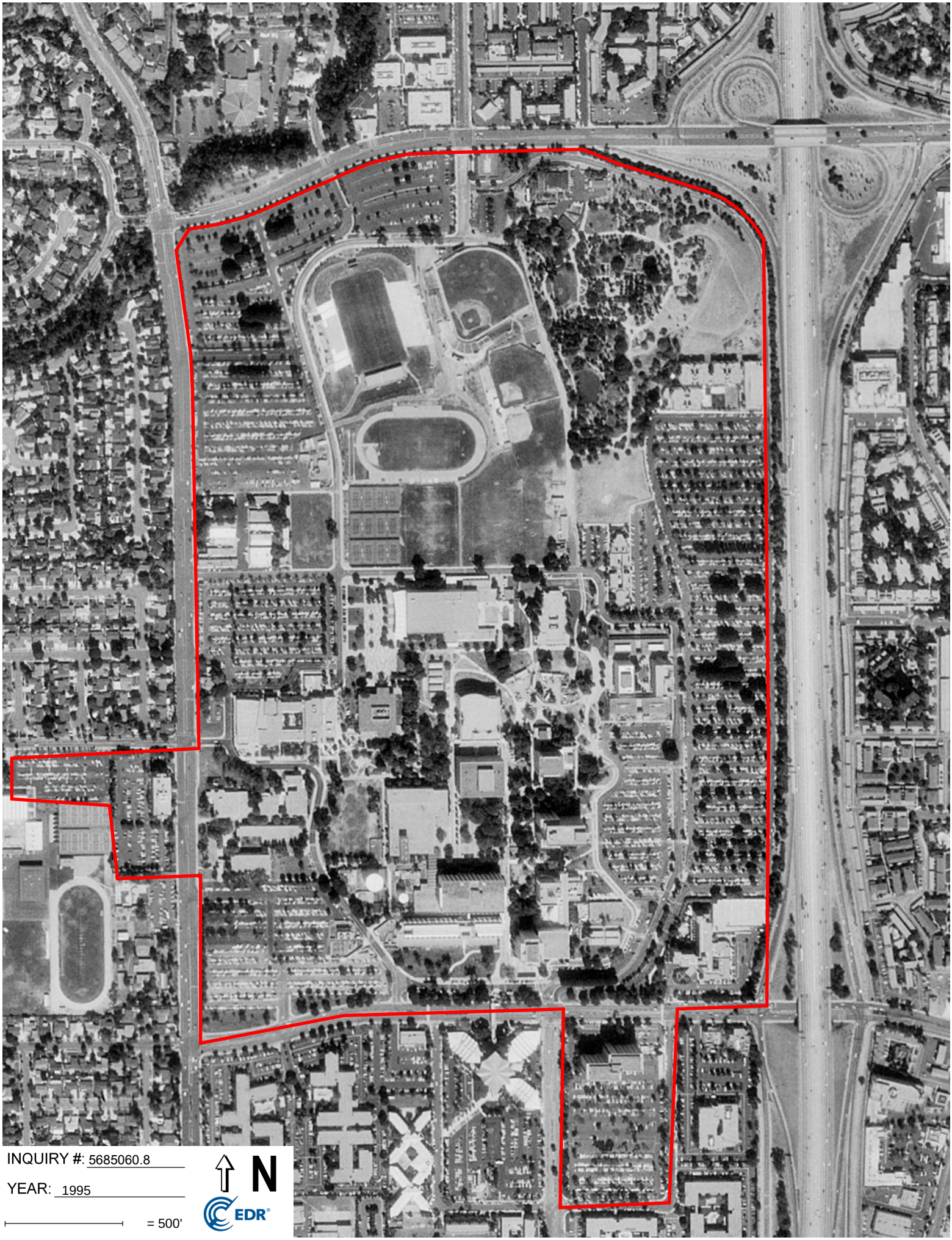
YEAR: 2005

= 500'

N

EDR

INQUIRY #: 5685060.8
YEAR: 2002
= 750'
N
EDR
Subject boundary not shown because it exceeds image extent or image is not georeferenced.



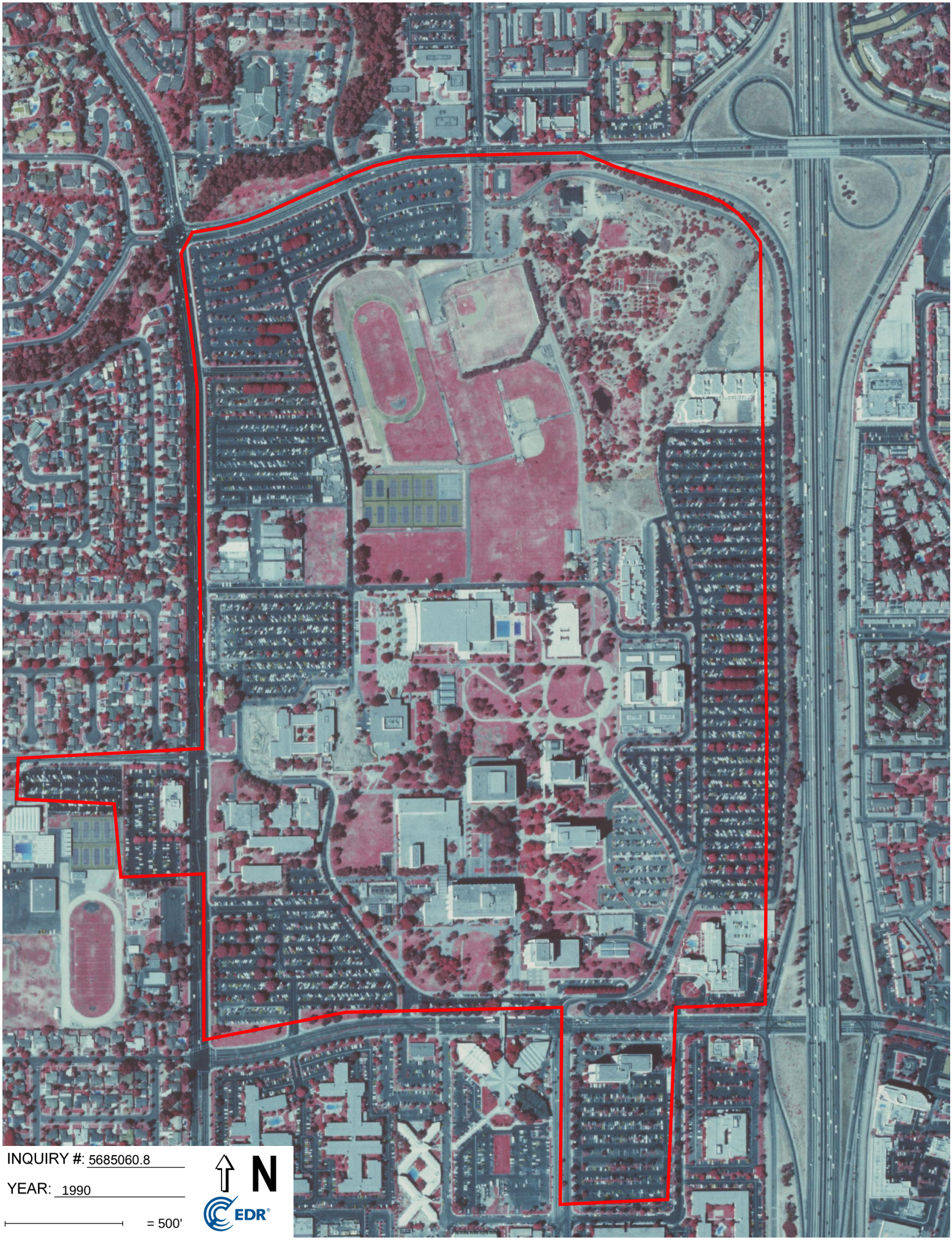
INQUIRY #: 5685060.8

YEAR: 1995

= 500'

N

EDR



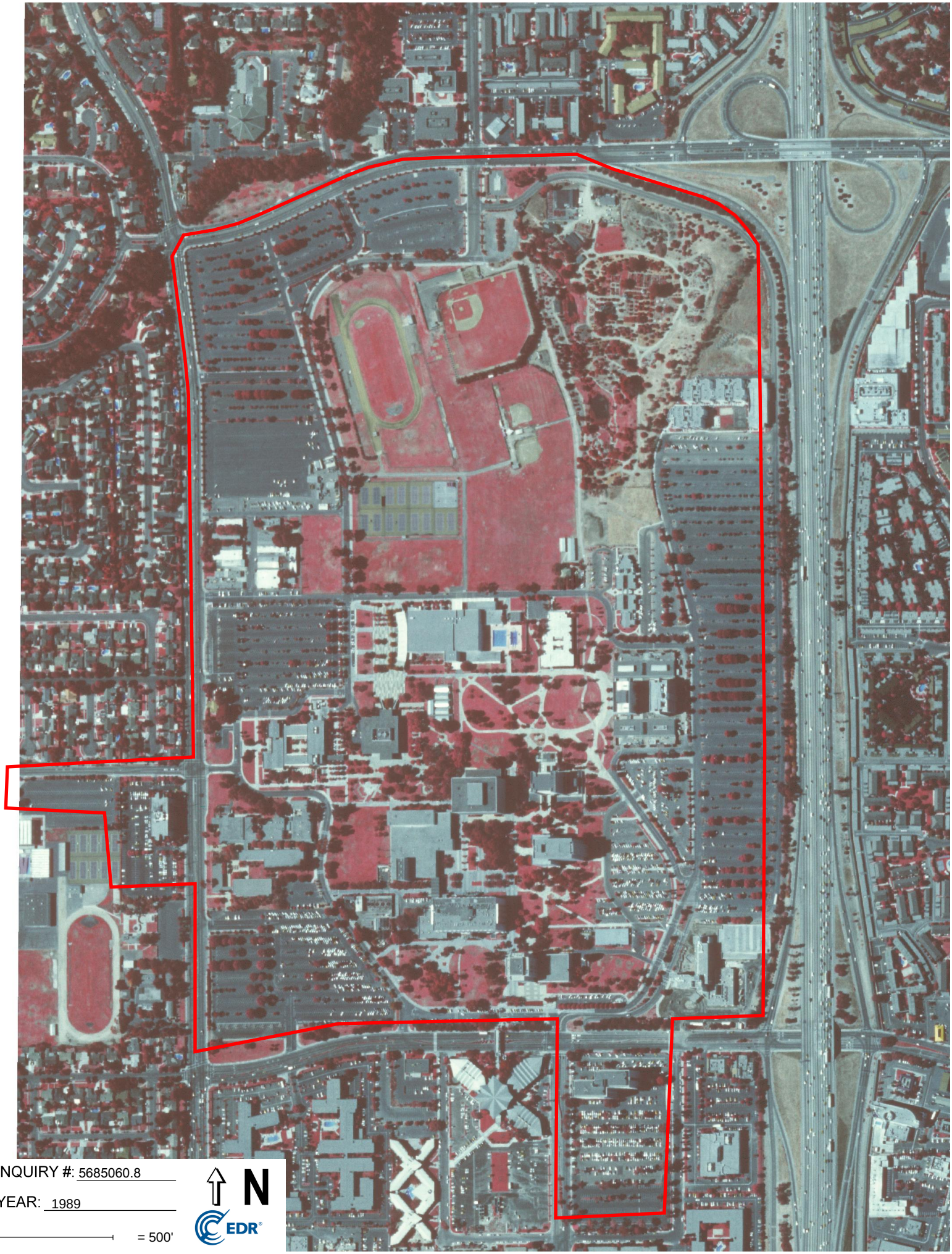
INQUIRY #: 5685060.8

YEAR: 1990

= 500'

N

EDR



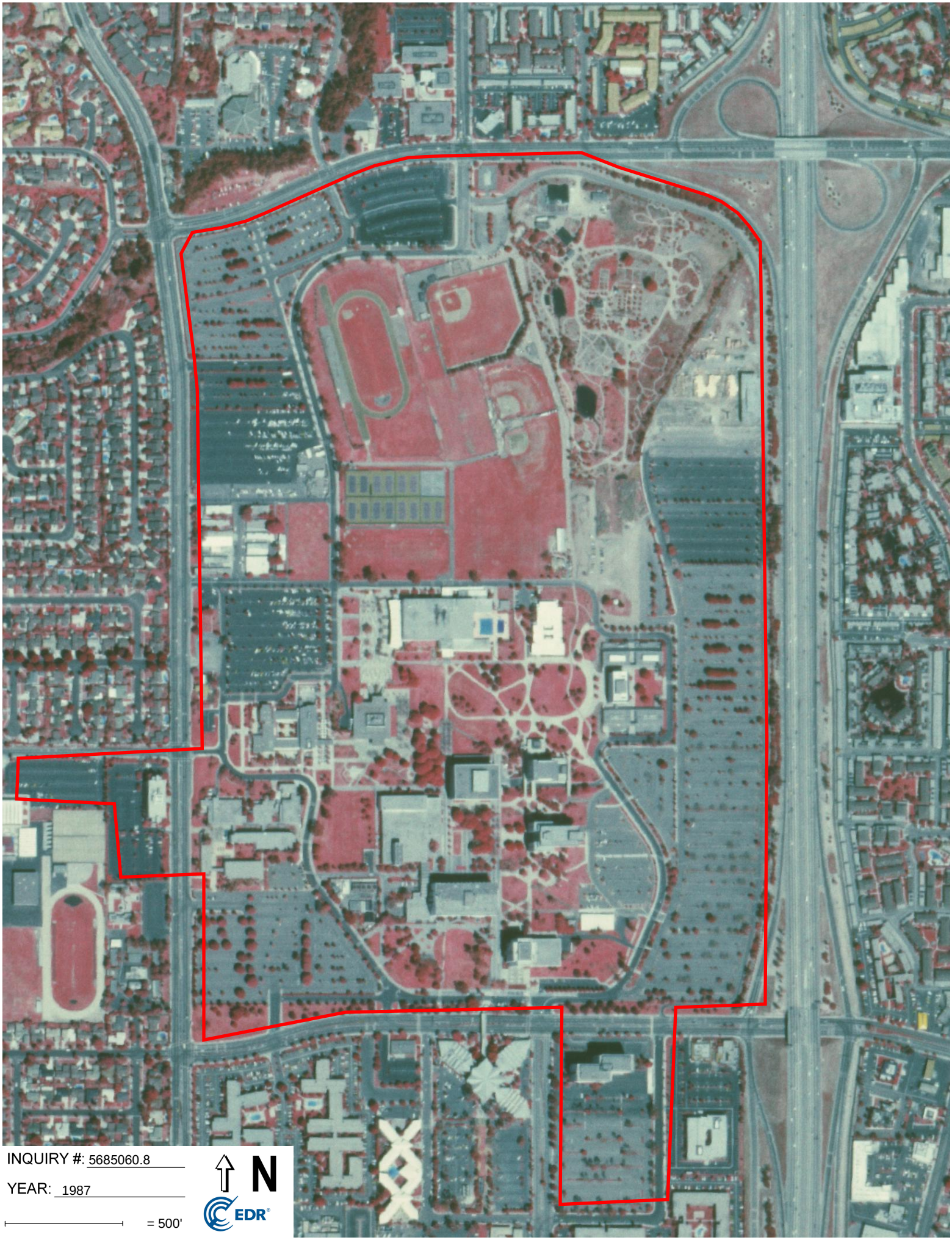
INQUIRY #: 5685060.8

YEAR: 1989

= 500'

N

EDR


INQUIRY #: 5685060.8
YEAR: 1987
= 500'
N
EDR

INQUIRY #: 5685060.8
YEAR: 1977
= 500'
N
EDR

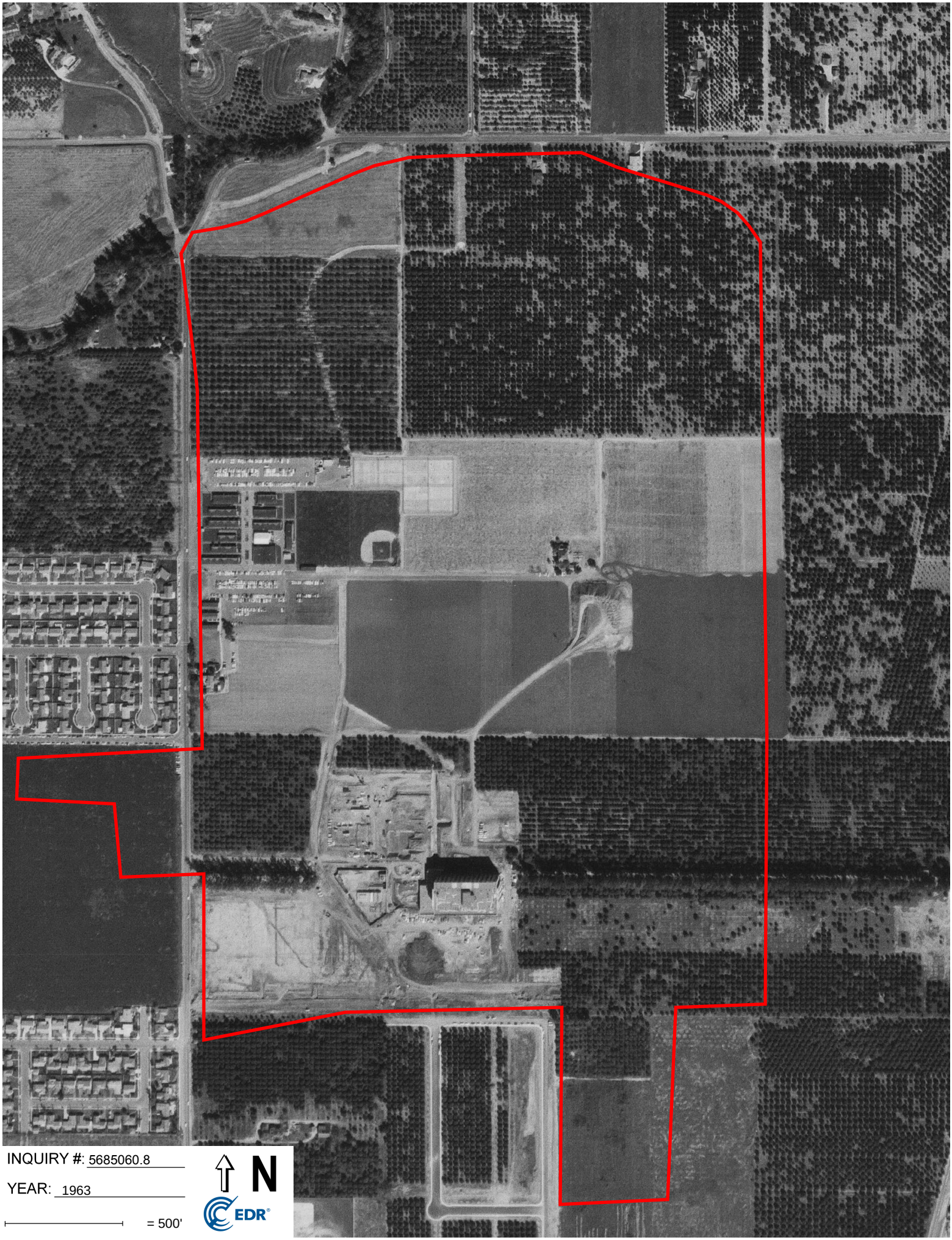
INQUIRY #: 5685060.8

YEAR: 1972

= 500'

N

EDR



INQUIRY #: 5685060.8

YEAR: 1963

= 500'

N

EDR

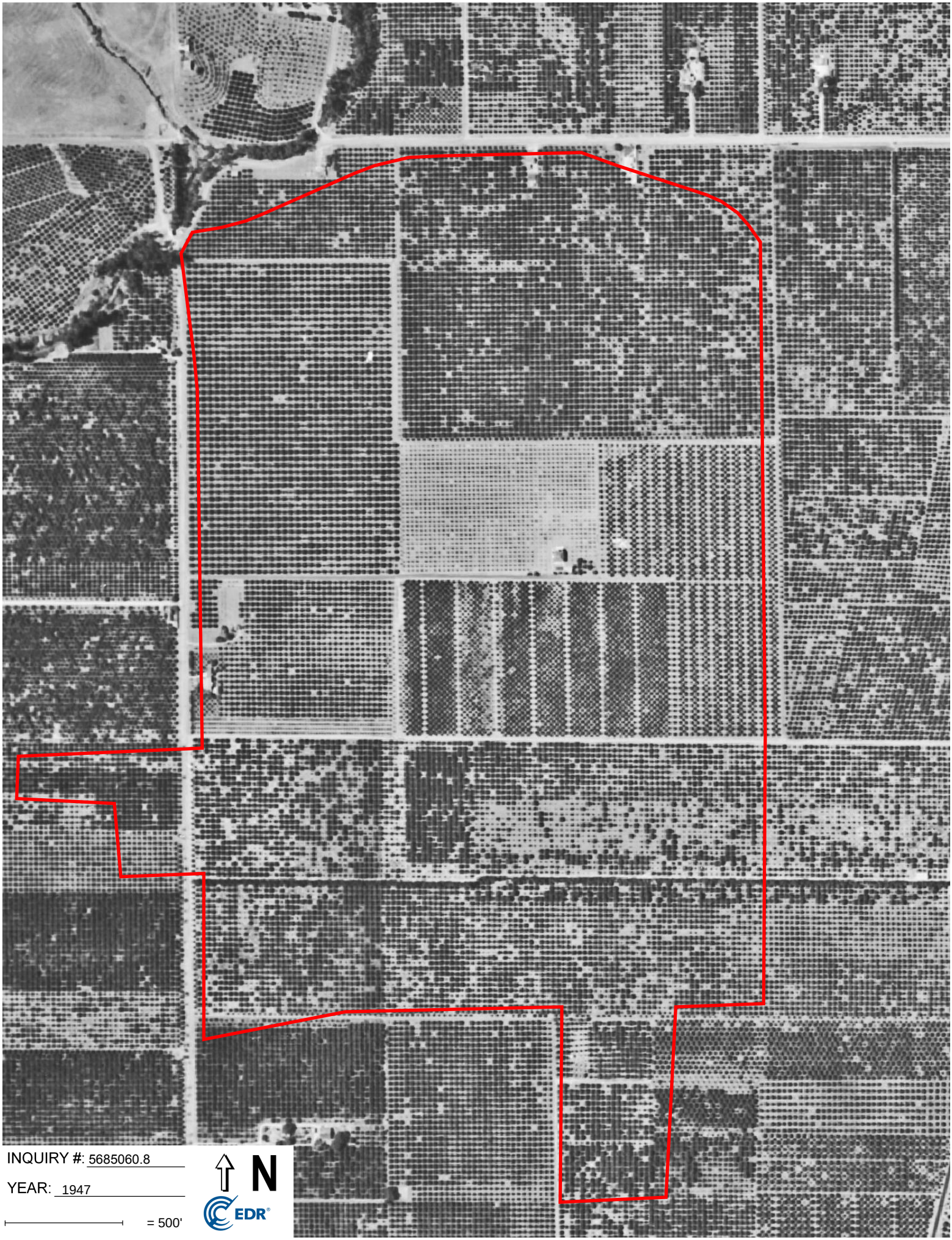
INQUIRY #: 5685060.8

YEAR: 1952

= 500'

N

EDR


INQUIRY #: 5685060.8
YEAR: 1947
= 500'
N
EDR

INQUIRY #: 5685060.8
YEAR: 1938
= 500'
N
EDR

Cal State University Fullerton
800 N State College Boulevard
Fullerton, CA 92831

Inquiry Number: 5685060.5
June 15, 2019

The EDR-City Directory Abstract

Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

TABLE OF CONTENTS

SECTION

Executive Summary

Findings

City Directory Images

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Abstract includes a search and abstract of available city directory data. For each address, the directory lists the name of the corresponding occupant at five year intervals.

Business directories including city, cross reference and telephone directories were reviewed, if available, at approximately five year intervals for the years spanning 1920 through 2014. This report compiles information gathered in this review by geocoding the latitude and longitude of properties identified and gathering information about properties within 660 feet of the target property.

A summary of the information obtained is provided in the text of this report.

RECORD SOURCES

EDR's Digital Archive combines historical directory listings from sources such as Cole Information and Dun & Bradstreet. These standard sources of property information complement and enhance each other to provide a more comprehensive report.

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Data by
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RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. An "X" indicates where information was identified in the source and provided in this report.

Year	Source	TP	Adjoining	Text Abstract	Source Image
2014	EDR Digital Archive	-	-	-	-
2010	EDR Digital Archive	-	-	-	-
2005	EDR Digital Archive	-	-	-	-
2002	Haines Company	-	-	-	-
2001	Pacific Telephone	-	-	-	-
1997	Pacific Telephone	-	-	-	-
1995	Pacific Bell	-	X	X	-
	Pacific Bell	X	X	X	-
1992	Pacific Bell	-	-	-	-
1991	Pacific Bell	-	X	X	-
	Pacific Bell	X	X	X	-
1986	Pacific Bell	-	X	X	-

EXECUTIVE SUMMARY

Year	Source	TP	Adjoining	Text Abstract	Source Image
1986	Pacific Bell	X	X	X	-
1980	Pacific Telephone	-	X	X	-
	Pacific Telephone	X	X	X	-
1975	Luskey Brothers & Co., Inc.	-	X	X	-
	Luskey Brothers & Co., Inc.	X	X	X	-
1971	Luskey Brothers Co., Inc.	-	-	-	-
1970	General Telephone Co., of California	-	X	X	-
	General Telephone Co., of California	X	X	X	-
1966	Pacific Telephone	-	X	X	-
	Pacific Telephone	X	X	X	-
1965	Ross Publications, Inc.,	-	X	X	-
	Ross Publications, Inc.,	X	X	X	-
1961	Luskey Brothers & Co.,	-	-	-	-
1960	Luskey Brothers & Co.,	-	X	X	-
1956	Luskey Brothers & Co., Inc.	-	-	-	-
1955	The Pacific Telephone and Telegraph Co.	-	-	-	-
1952	Luskeys Directory Service Co.	-	-	-	-
1950	West Directory Co.	-	-	-	-
1946	Southern California Telephone Co.	-	-	-	-
1945	McCutcheon & Bragonier	-	-	-	-
1941	Southern California Telephone Co.	-	-	-	-
1936	Western Directory Co.	-	-	-	-
1930	Western Directory Co.	-	-	-	-
1926	Pacific Telephone	-	-	-	-
1925	Western Directory Co.	-	-	-	-
1922	Kaasen Directory Co.	-	-	-	-
1921	Western Directory Co.	-	-	-	-
1920	Santa Ana Directory Co.	-	-	-	-

EXECUTIVE SUMMARY

SELECTED ADDRESSES

The following addresses were selected by the client, for EDR to research. An "X" indicates where information was identified.

Address	***Type***	***Findings***
1220 N State College Boulevard	Client Entered	

FINDINGS

TARGET PROPERTY INFORMATION

ADDRESS

800 N State College Boulevard
Fullerton, CA 92831

FINDINGS DETAIL

Target Property research detail.

N STATE COLLEGE BLVD

800 N STATE COLLEGE BLVD

Year	*Uses*	*Source*
1995	CALIFORNIA STATE UNIVERSITY FULLERTON	Pacific Bell
	Campus Travel	Pacific Bell
	Garcia Rhodelyn	Pacific Bell
	Gharagozloo Hossein	Pacific Bell
	LASalsa Soccer Club	Pacific Bell
	Our Place Or Yours Catering	Pacific Bell
1991	Allison Tracy M	Pacific Bell
	Atlas Titan Travel	Pacific Bell
	Brees Stephen	Pacific Bell
	CALIFORNIA STATE UNIVERSITY @Fullerton@ LERTON	Pacific Bell
	Cummins Kevin	Pacific Bell
	Gehrig Al P Jr	Pacific Bell
	Gundred Thomas E	Pacific Bell
	Mendoza L David	Pacific Bell
	Our Place Or Yours Catering	Pacific Bell
	Reeter Steven	Pacific Bell
	Tackwood Andre	Pacific Bell
	Taco Bell	Pacific Bell
	Titan Bookstore	Pacific Bell
	Zhao Xiao Wei	Pacific Bell
1986	Atlas Titan Travel	Pacific Bell
	Cal State Univ Fullerton	Pacific Bell
	Our Place Or Yours Catering	Pacific Bell
1980	Academic Advisement Office Of	Pacific Telephone
	Academic Affairs Vice President Office Of	Pacific Telephone

FINDINGS

Year	Uses	Source
1980	Accounts Payable Vendors	Pacific Telephone
	Administration Vice President Office Of	Pacific Telephone
	Butsiness Manager Office Of	Pacific Telephone
	Cal State Fullerton Recreation Office	Pacific Telephone
	Cal State Fullerton Unriversity Center	Pacific Telephone
	California State University Fullerton	Pacific Telephone
	Campus Branch	Pacific Telephone
	Cashier	Pacific Telephone
	Graves Formuzis & Associates	Pacific Telephone
	Loans And Grants	Pacific Telephone
	Marilyn De Rose	Pacific Telephone
	Pacific Symphony Orgchestra	Pacific Telephone
	Payroll	Pacific Telephone
	Physical Plant	Pacific Telephone
	Public Affairs	Pacific Telephone
	Public Information	Pacific Telephone
	Rosetti Construction Co	Pacific Telephone
	Titan Bookstore	Pacific Telephone
	University Hair Shoppe	Pacific Telephone
1975	CALIFORNIA STATE UNIVERSITY FULLERTON	Luskey Brothers & Co., Inc.
	Hotline Rape Crisis North	Luskey Brothers & Co., Inc.
	Orange County Women Against Rape	Luskey Brothers & Co., Inc.
	Rape Crisis Hotline Laguna Laguna Niguel North	Luskey Brothers & Co., Inc.
	Stop Rape Inc	Luskey Brothers & Co., Inc.
	Titan Bookstore	Luskey Brothers & Co., Inc.
	Titan Shops Food Service Inc	Luskey Brothers & Co., Inc.
1970	Barnes Jas E	General Telephone Co., of California
	Canteen Corp Campus Host Div	General Telephone Co., of California
	Mallcraft Inc	General Telephone Co., of California
	Murray Co	General Telephone Co., of California
	parnes Jas I Construction Co	General Telephone Co., of California
1966	Associated Students	Pacific Telephone
	Calif State College at Fullerton	Pacific Telephone
	Public Events Coordinator	Pacific Telephone
	Scott Co of Calif	Pacific Telephone
	Titan Times	Pacific Telephone
	Valley Crest Landscape Inc	Pacific Telephone

FINDINGS

N State College Boulevard

1220 N State College Boulevard

Year	*Uses*	*Source*

STATE COLLEGE BLVD N

800 STATE COLLEGE BLVD N

Year	*Uses*	*Source*
1966	Calif State College at Fullerton	Pacific Telephone
	Speech & Hearing Clinic	Pacific Telephone
1965	CALIFORNIA STATE COLLEG	Ross Publications, Inc.,
	COLLEGE BOOK STORE	Ross Publications, Inc.,
	DUNCAN HALL	Ross Publications, Inc.,
	TITAN TIMES	Ross Publications, Inc.,

FINDINGS

ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

CONCORD AVE

1200 CONCORD AVE

Year	Uses	Source
1965	VH PACURAR	Ross Publications, Inc.,

1201 CONCORD AVE

Year	Uses	Source
1965	J GONZALES	Ross Publications, Inc.,

CONCORD AVE N

1200 CONCORD AVE N

Year	Uses	Source
1960	VACANT	Luskey Brothers & Co.,

1201 CONCORD AVE N

Year	Uses	Source
1960	UNDER CONSTR	Luskey Brothers & Co.,

1206 CONCORD AVE N

Year	Uses	Source
1960	VACANT	Luskey Brothers & Co.,

1207 CONCORD AVE N

Year	Uses	Source
1960	UNDER CONSTR	Luskey Brothers & Co.,

DOROTHY LN

2200 DOROTHY LN

Year	Uses	Source
1980	North Orange County Community College Adult Education	Pacific Telephone
	North Orange County Regional Occupational Program	Pacific Telephone
	Troy High School H L Looney Principal	Pacific Telephone
1965	OTROY HIGH SCHOOL	Ross Publications, Inc.,

FINDINGS

Year	Uses	Source
1960	OTROY HIGH SCHOOL	Luskey Brothers & Co.,

E DOROTHY LN

2200 E DOROTHY LN

Year	Uses	Source
1995	Troy High School	Pacific Bell
	Fullerton High School	Pacific Bell
1991	Troy High School	Pacific Bell
	Troy High School	Pacific Bell
1980	Activities	Pacific Telephone
	Troy High School	Pacific Telephone
	Troy High School	Pacific Telephone
	Information Administration	Pacific Telephone
	Physical Education	Pacific Telephone
	Counseling	Pacific Telephone
	Consumer Hot Line	Pacific Telephone
	Attendance	Pacific Telephone
	Adult Education	Pacific Telephone
1975	Troy High School	Luskey Brothers & Co., Inc.
	Secondary School Services	Luskey Brothers & Co., Inc.
1970	Troy High School	General Telephone Co., of California
	Troy High School Adult Education	General Telephone Co., of California
	Troy	General Telephone Co., of California
	North Orange County Junior College District Superintendents Office IOOONLemon FULLERTON Adult Education Division I OOONLemon FULLERTON Buena Park Magnolia Atb Oth BUENA P	General Telephone Co., of California
1966	Troy High School	Pacific Telephone
	Troy High School	Pacific Telephone
	Sonora High School	Pacific Telephone

2226 E DOROTHY LN

Year	Uses	Source
1970	Bobs Hobbies Crafts	General Telephone Co., of California

FINDINGS

N CONCORD AVE

851 N CONCORD AVE

Year	Uses	Source
1995	Montgomery CB	Pacific Bell

N STATE COLLEGE BLVD

699 N STATE COLLEGE BLVD

Year	Uses	Source
1975	Retro Machinery Services	Luskey Brothers & Co., Inc.

909 N STATE COLLEGE BLVD

Year	Uses	Source
1995	La Vista High School	Pacific Bell
	Endeavor School	Pacific Bell
	Endeavor School	Pacific Bell
	Fullerton High School	Pacific Bell
1991	Endeavor School	Pacific Bell
	Endeavor School	Pacific Bell
	La Vista High School	Pacific Bell
	La Vista High School Continuing Education	Pacific Bell
1986	Endeavor School	Pacific Bell
	La Vista High School	Pacific Bell
1980	i La Vista High School	Pacific Telephone
	Attendance	Pacific Telephone
	Counseling	Pacific Telephone
	Information Administration	Pacific Telephone
	La Vista High School L Munson Principal	Pacific Telephone
	Endeavor School	Pacific Telephone
1975	Endeavor School	Luskey Brothers & Co., Inc.
	La Vista High School ROP Office Occupations	Luskey Brothers & Co., Inc.
	La Vista High School	Luskey Brothers & Co., Inc.
1970	La Vista High School	General Telephone Co., of California

1000 N STATE COLLEGE BLVD

Year	Uses	Source
1995	Fifth Avenue Limousine Service S	Pacific Bell
	Ross George	Pacific Bell

FINDINGS

Year	Uses	Source
1995	Salon Trae Chic	Pacific Bell
1966	La Palma & State Collge	Pacific Telephone
	Richfield Serv Stn Dirs Anaheim	Pacific Telephone

1001 N STATE COLLEGE BLVD

Year	Uses	Source
1995	Texaco Service Sin Dirs	Pacific Bell
	Anahtilm	Pacific Bell
1966	La Palma & State College	Pacific Telephone
	TEXACO SERVICE STN DLRS Anaheim	Pacific Telephone

1010 N STATE COLLEGE BLVD

Year	Uses	Source
1980	Anaheim	Pacific Telephone

1021 N STATE COLLEGE BLVD

Year	Uses	Source
1980	General Merchandise	Pacific Telephone
	Anaheim	Pacific Telephone

1111 N STATE COLLEGE BLVD

Year	Uses	Source
1995	Law Western State University College Of Orange County	Pacific Bell
	WESTERN STATE UNIVERSITY COLLEGE OF LAW Fullarton Campus	Pacific Bell
	College Of Law Western State University	Pacific Bell
1991	Dictum The	Pacific Bell
	College Of Law Western State University	Pacific Bell
1986	Dictum	Pacific Bell
1980	Law Western State University College Of Orange County	Pacific Telephone
	College Of Law Western State University	Pacific Telephone
	Western State University College Of Law	Pacific Telephone
1975	Western State University Law Review	Luskey Brothers & Co., Inc.
	WESTERN STATE UNIVERSITY COLLEGE OF LAW OF ORANGE COUNTY	Luskey Brothers & Co., Inc.
	Student Bar Association Western State University	Luskey Brothers & Co., Inc.
	Nu Beta Epsilon Law Fraternity	Luskey Brothers & Co., Inc.

FINDINGS

Year	Uses	Source
1975	Law Western State University College Of Orange County	Luskey Brothers & Co., Inc.
	College Of Law Western State University	Luskey Brothers & Co., Inc.

FINDINGS

ADJOINING PROPERTY: ADDRESSES NOT IDENTIFIED IN RESEARCH SOURCE

The following Adjoining Property addresses were researched for this report, and the addresses were not identified in research source.

Address Researched	Address Not Identified in Research Source
1000 N STATE COLLEGE BLVD	2014, 2010, 2005, 2002, 2001, 1997, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920
1001 N STATE COLLEGE BLVD	2014, 2010, 2005, 2002, 2001, 1997, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920
1010 N STATE COLLEGE BLVD	2014, 2010, 2005, 2002, 2001, 1997, 1995, 1992, 1991, 1986, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920
1021 N STATE COLLEGE BLVD	2014, 2010, 2005, 2002, 2001, 1997, 1995, 1992, 1991, 1986, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920
1111 N STATE COLLEGE BLVD	2014, 2010, 2005, 2002, 2001, 1997, 1992, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920
1200 CONCORD AVE	2014, 2010, 2005, 2002, 2001, 1997, 1995, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920
1200 CONCORD AVE N	2014, 2010, 2005, 2002, 2001, 1997, 1995, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920
1201 CONCORD AVE	2014, 2010, 2005, 2002, 2001, 1997, 1995, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920
1201 CONCORD AVE N	2014, 2010, 2005, 2002, 2001, 1997, 1995, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920
1206 CONCORD AVE N	2014, 2010, 2005, 2002, 2001, 1997, 1995, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920
1207 CONCORD AVE N	2014, 2010, 2005, 2002, 2001, 1997, 1995, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920
2200 DOROTHY LN	2014, 2010, 2005, 2002, 2001, 1997, 1995, 1992, 1991, 1986, 1975, 1971, 1970, 1966, 1961, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920
2200 E DOROTHY LN	2014, 2010, 2005, 2002, 2001, 1997, 1992, 1986, 1971, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920
2226 E DOROTHY LN	2014, 2010, 2005, 2002, 2001, 1997, 1995, 1992, 1991, 1986, 1980, 1975, 1971, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920
699 N STATE COLLEGE BLVD	2014, 2010, 2005, 2002, 2001, 1997, 1995, 1992, 1991, 1986, 1980, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
851 N CONCORD AVE	2014, 2010, 2005, 2002, 2001, 1997, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920
909 N STATE COLLEGE BLVD	2014, 2010, 2005, 2002, 2001, 1997, 1992, 1971, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920

TARGET PROPERTY: ADDRESS NOT IDENTIFIED IN RESEARCH SOURCE

The following Target Property addresses were researched for this report, and the addresses were not identified in the research source.

Address Researched	Address Not Identified in Research Source
800 N State College Boulevard	2014, 2010, 2005, 2002, 2001, 1997, 1992, 1971, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920

Cal State University Fullerton

800 N State College Boulevard

Fullerton, CA 92831

Inquiry Number: 5685060.3

June 14, 2019

Certified Sanborn® Map Report

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

06/14/19

Site Name:	Client Name:
Cal State University Fullerton	Rincon
800 N State College Boulevard	180 North Ashwood Avenue
Fullerton, CA 92831	Ventura, CA 93003-0000
EDR Inquiry # 5685060.3	Contact: Lauren Kodama Roenicke

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The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

Certified Sanborn Results:

Certification # 3D22-44F2-AF0C

PO # 18-06014

Project NA

UNMAPPED PROPERTY

This report certifies that the complete holdings of the Sanborn Library, LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were not found.

Sanborn® Library search results

Certification #: 3D22-44F2-AF0C

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ✔ Library of Congress
- ✔ University Publications of America
- ✔ EDR Private Collection

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Cal State University Fullerton

800 N State College Boulevard

Fullerton, CA 92831

Inquiry Number: 5685060.4

June 14, 2019

EDR Historical Topo Map Report

with QuadMatch™

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Historical Topo Map Report

06/14/19

Site Name:	Client Name:
Cal State University Fullerton	Rincon
800 N State College Boulevard	180 North Ashwood Avenue
Fullerton, CA 92831	Ventura, CA 93003-0000
EDR Inquiry # 5685060.4	Contact: Lauren Kodama Roenicke

EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by Rincon were identified for the years listed below. EDR's Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

Search Results:

P.O.# 18-06014

Project: NA

Coordinates:

Latitude:	33.883149 33° 52' 59" North
Longitude:	-117.885404 -117° 53' 7" West
UTM Zone:	Zone 11 North
UTM X Meters:	418121.83
UTM Y Meters:	3749552.61
Elevation:	250.00' above sea level

Maps Provided:

2012	1902
1981	1901
1972	1898
1952	1896
1950	
1949	
1942	
1935	

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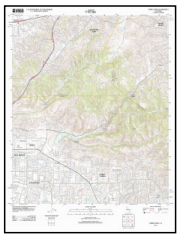
Topo Sheet Key

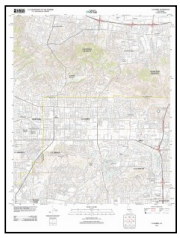
This EDR Topo Map Report is based upon the following USGS topographic map sheets.

2012 Source Sheets

Orange
2012
7.5-minute, 24000



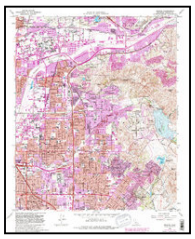
Yorba Linda
2012
7.5-minute, 24000



La Habra
2012
7.5-minute, 24000

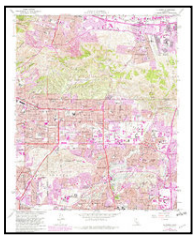
Anaheim
2012
7.5-minute, 24000

1981 Source Sheets



Orange
1981
7.5-minute, 24000
Aerial Photo Revised 1978

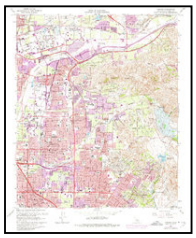
Yorba Linda
1981
7.5-minute, 24000
Aerial Photo Revised 1979



La Habra
1981
7.5-minute, 24000
Aerial Photo Revised 1981

Anaheim
1981
7.5-minute, 24000
Aerial Photo Revised 1963

1972 Source Sheets



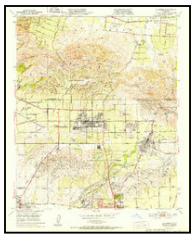
Orange
1972
7.5-minute, 24000
Aerial Photo Revised 1972

La Habra
1972
7.5-minute, 24000
Aerial Photo Revised 1972

Yorba Linda
1972
7.5-minute, 24000
Aerial Photo Revised 1972

Anaheim
1972
7.5-minute, 24000
Aerial Photo Revised 1972

1952 Source Sheets



La Habra
1952
7.5-minute, 24000
Aerial Photo Revised 1947

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1950 Source Sheets

Orange
1950
7.5-minute, 24000
Aerial Photo Revised 1946

Yorba Linda
1950
7.5-minute, 24000
Aerial Photo Revised 1946

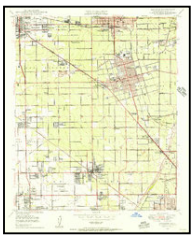
Anaheim
1950
7.5-minute, 24000
Aerial Photo Revised 1947

La Habra
1950
7.5-minute, 24000
Aerial Photo Revised 1947

1949 Source Sheets

Yorba Linda
1949
7.5-minute, 24000
Aerial Photo Revised 1946

Orange
1949
7.5-minute, 24000
Aerial Photo Revised 1946



Anaheim
1949
7.5-minute, 24000
Aerial Photo Revised 1947

1942 Source Sheets

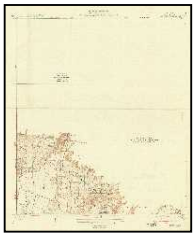
ANAHEIM
1942
15-minute, 50000

1935 Source Sheets

Garden Grove
1935
7.5-minute, 31680

Orange
1935
7.5-minute, 31680

Coyote Hills
1935
7.5-minute, 31680



OLINDA
1935
7.5-minute, 31680

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1902 Source Sheets

Corona
1902
30-minute, 125000

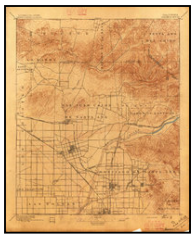
1901 Source Sheets

Anaheim
1901
15-minute, 62500

1898 Source Sheets

Anaheim
1898
15-minute, 62500

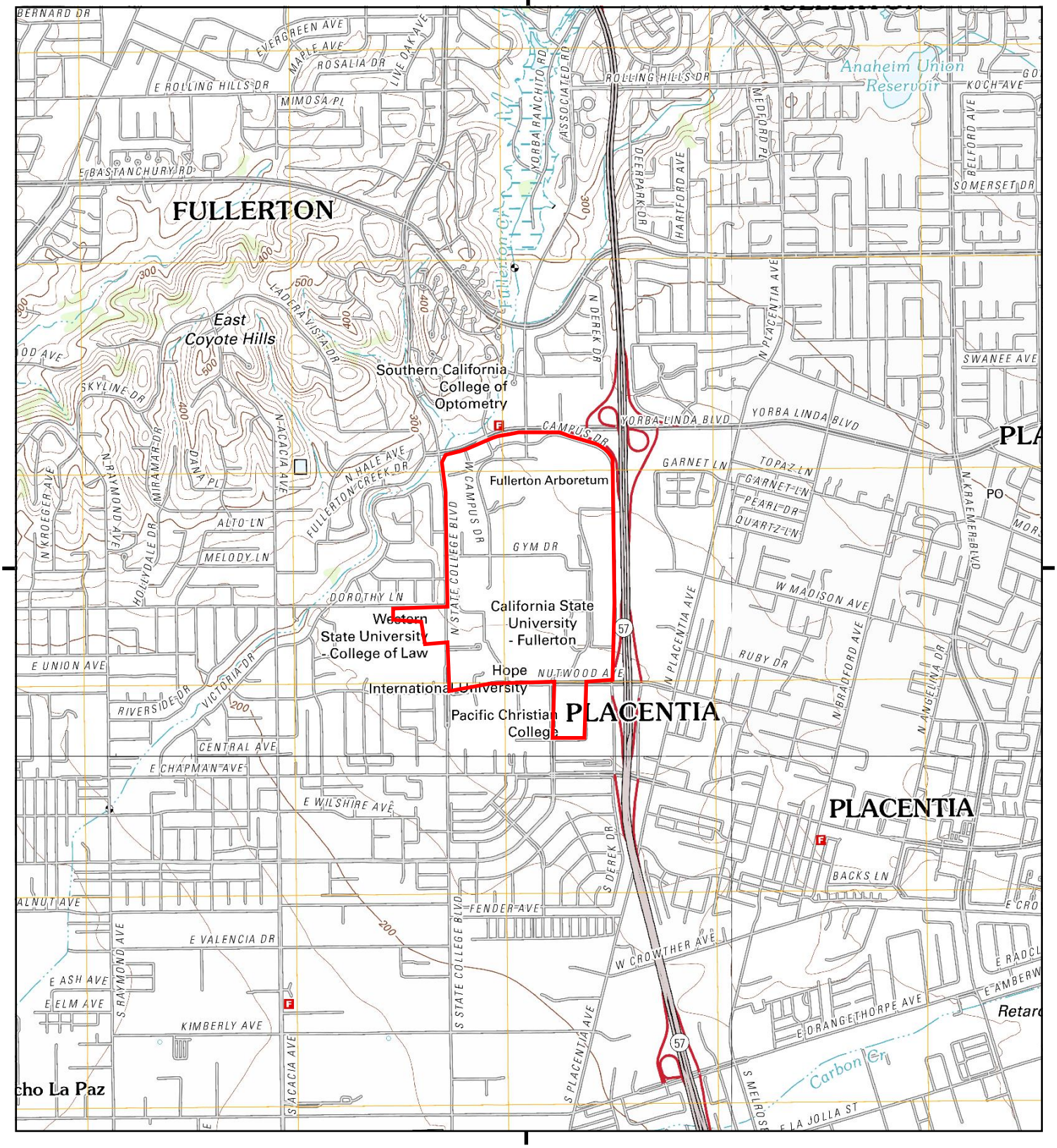
1896 Source Sheets



Anaheim
1896
15-minute, 62500

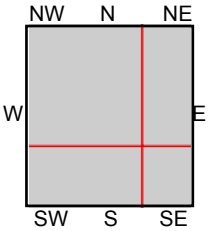
Historical Topo Map

2012



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5



TP, La Habra, 2012, 7.5-minute
NE, Yorba Linda, 2012, 7.5-minute
SE, Orange, 2012, 7.5-minute
SW, Anaheim, 2012, 7.5-minute

SITE NAME: Cal State University Fullerton
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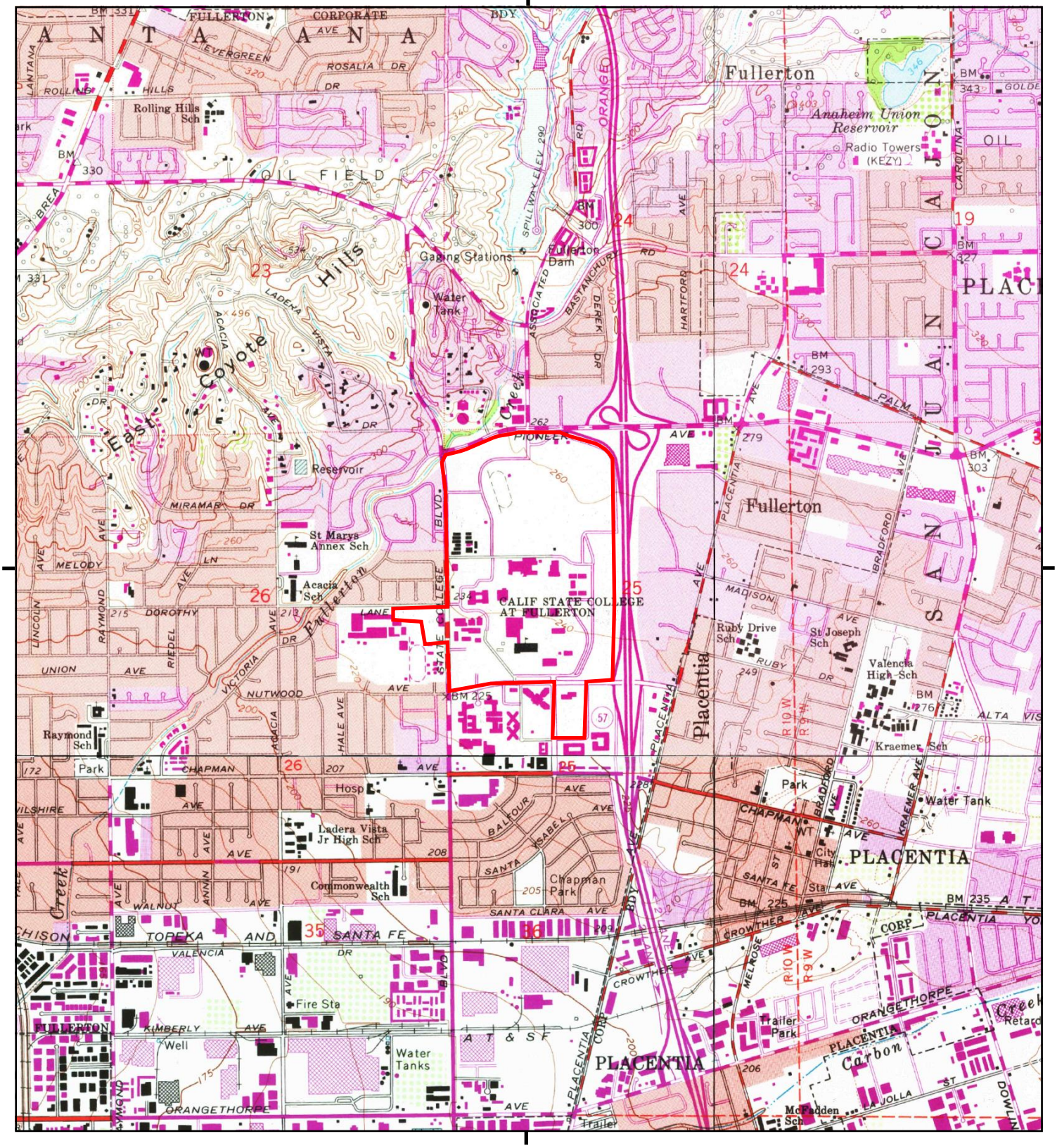
CLIENT: Rincon

N

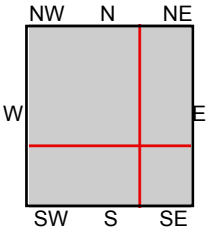
Historical Topo Map

1981



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5



TP, La Habra, 1981, 7.5-minute
NE, Yorba Linda, 1981, 7.5-minute
SE, Orange, 1981, 7.5-minute
SW, Anaheim, 1981, 7.5-minute

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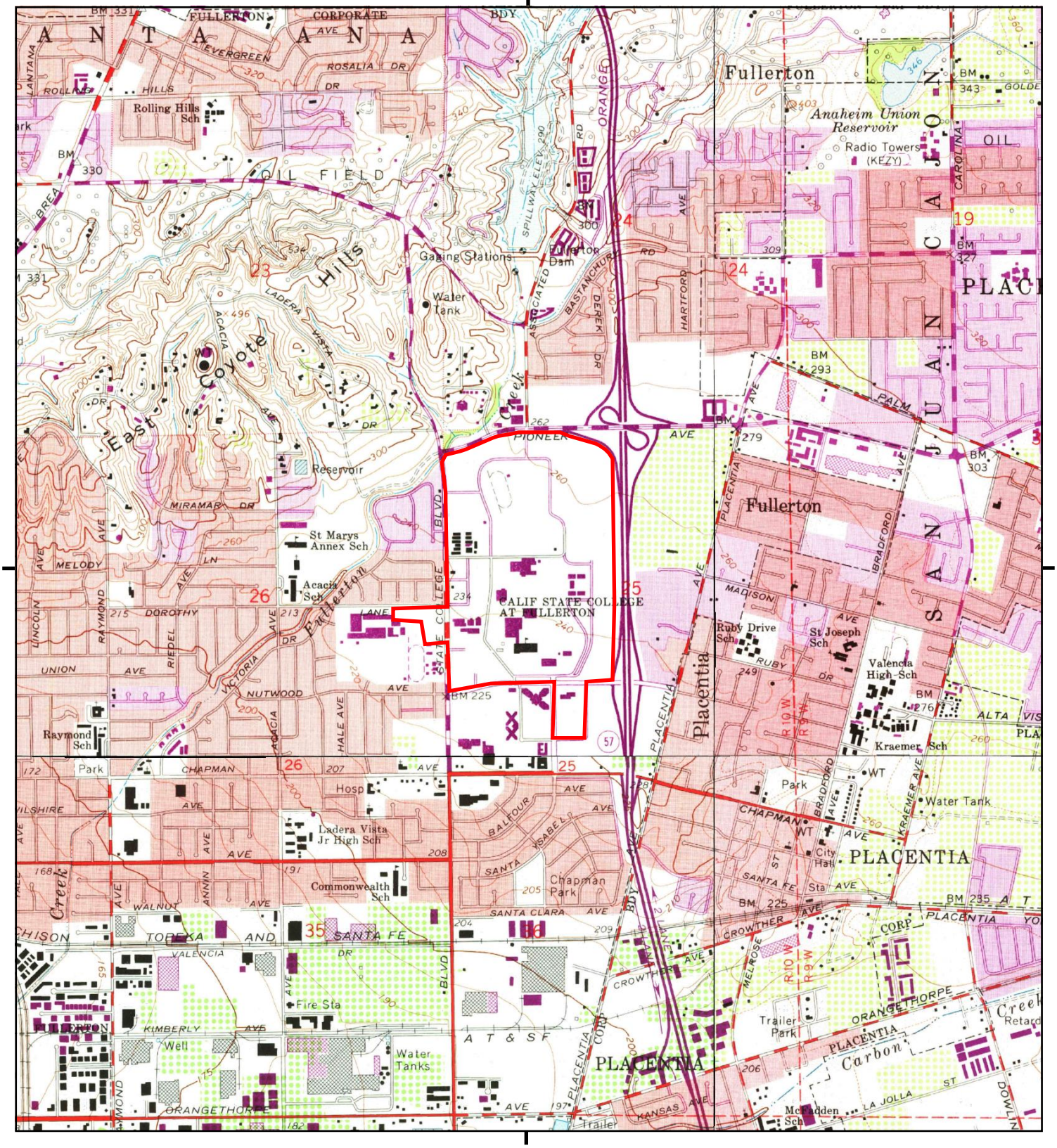
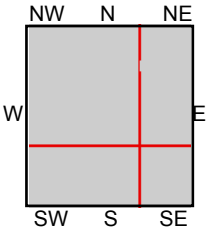
Historical Topo Map

1972



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5



TP, La Habra, 1972, 7.5-minute
NE, Yorba Linda, 1972, 7.5-minute
SE, Orange, 1972, 7.5-minute
SW, Anaheim, 1972, 7.5-minute

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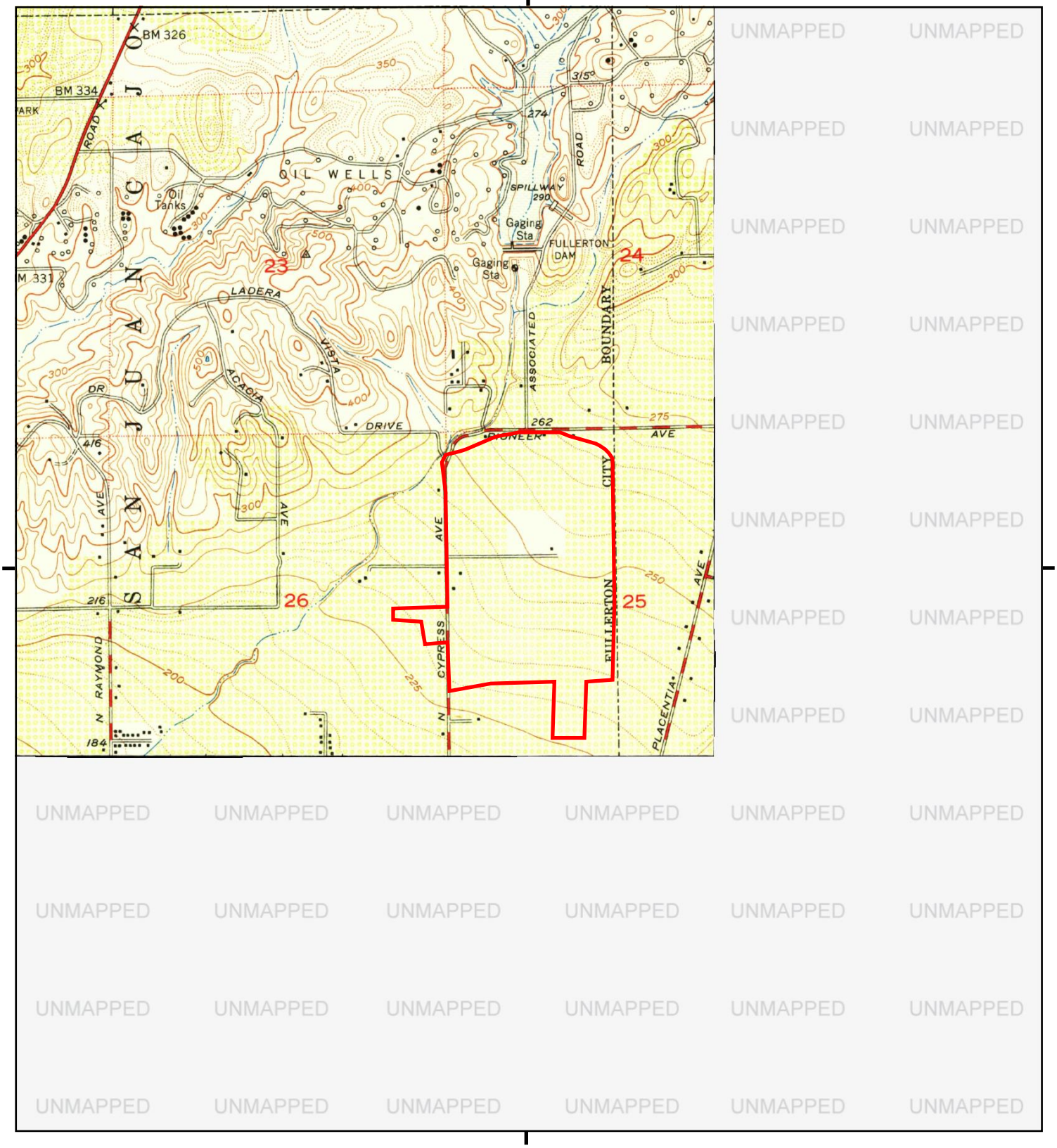
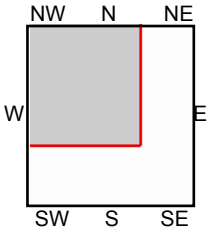
Historical Topo Map

1952



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5



TP, La Habra, 1952, 7.5-minute

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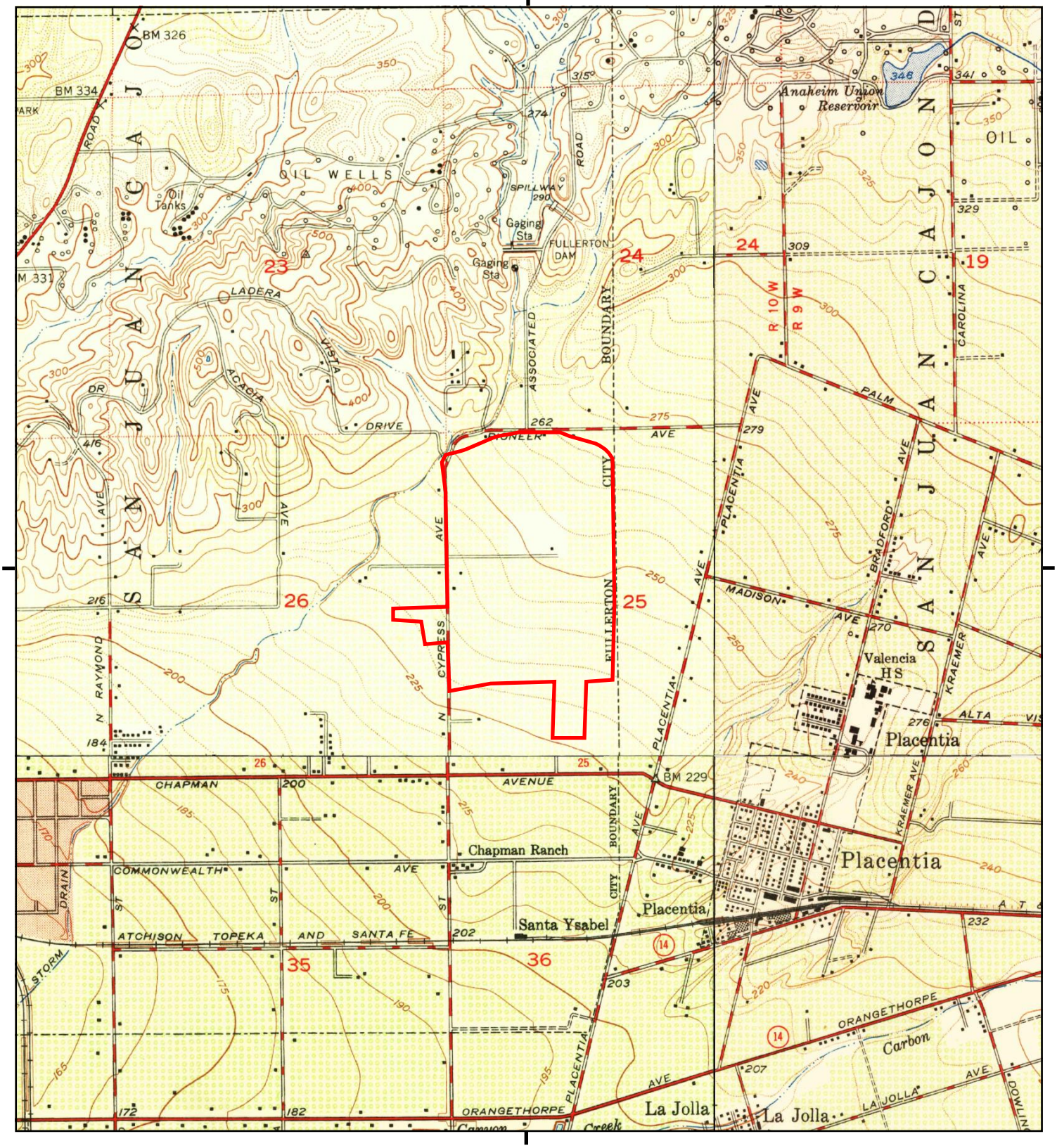
Historical Topo Map

1950



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, La Habra, 1950, 7.5-minute
NE, Yorba Linda, 1950, 7.5-minute
SE, Orange, 1950, 7.5-minute
SW, Anaheim, 1950, 7.5-minute

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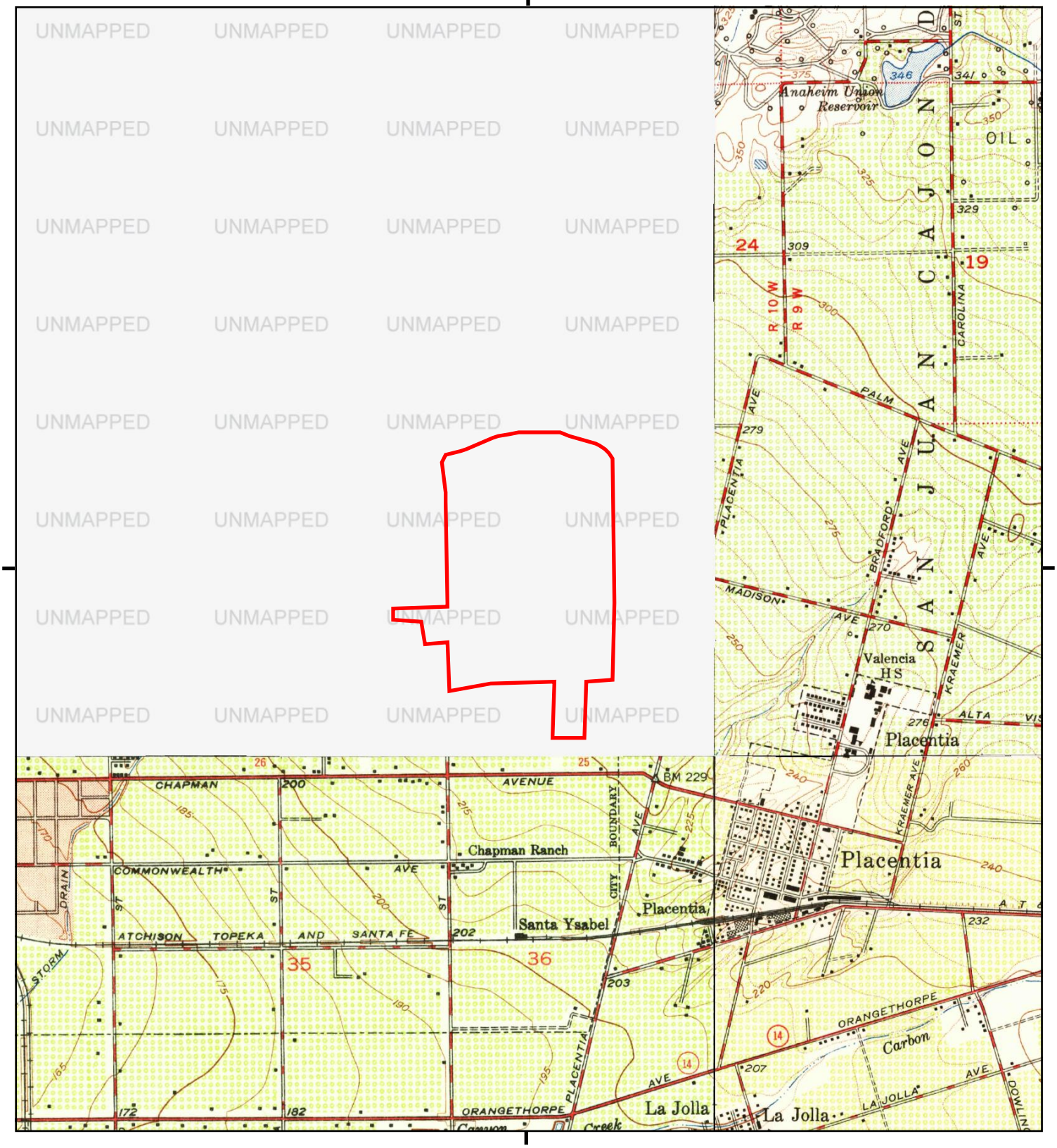
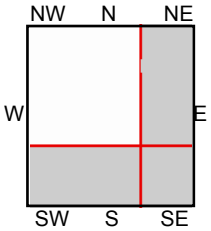
Historical Topo Map

1949



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5



NE, Yorba Linda, 1949, 7.5-minute
SE, Orange, 1949, 7.5-minute
SW, Anaheim, 1949, 7.5-minute

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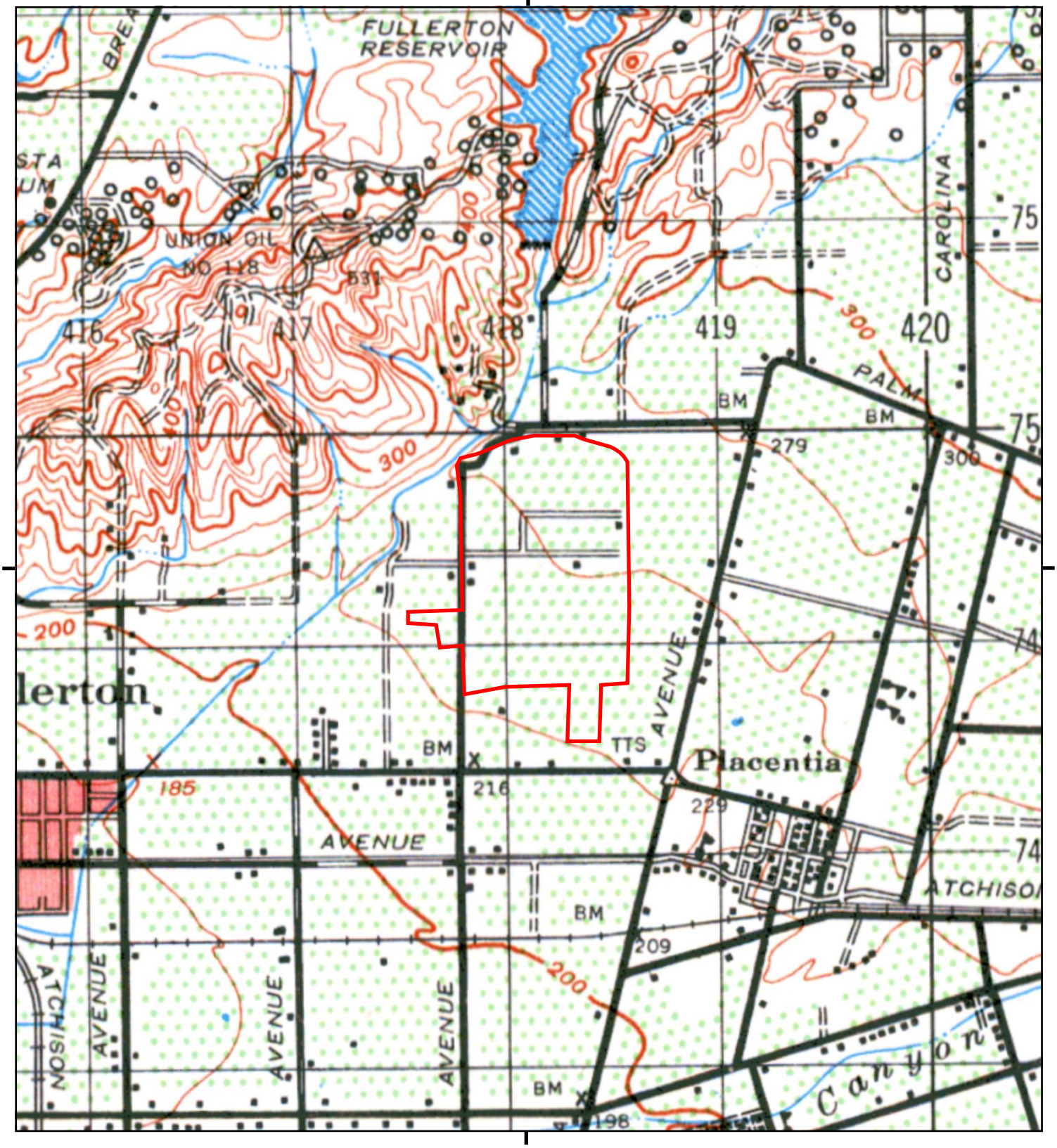
Historical Topo Map

1942



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, ANAHEIM, 1942, 15-minute

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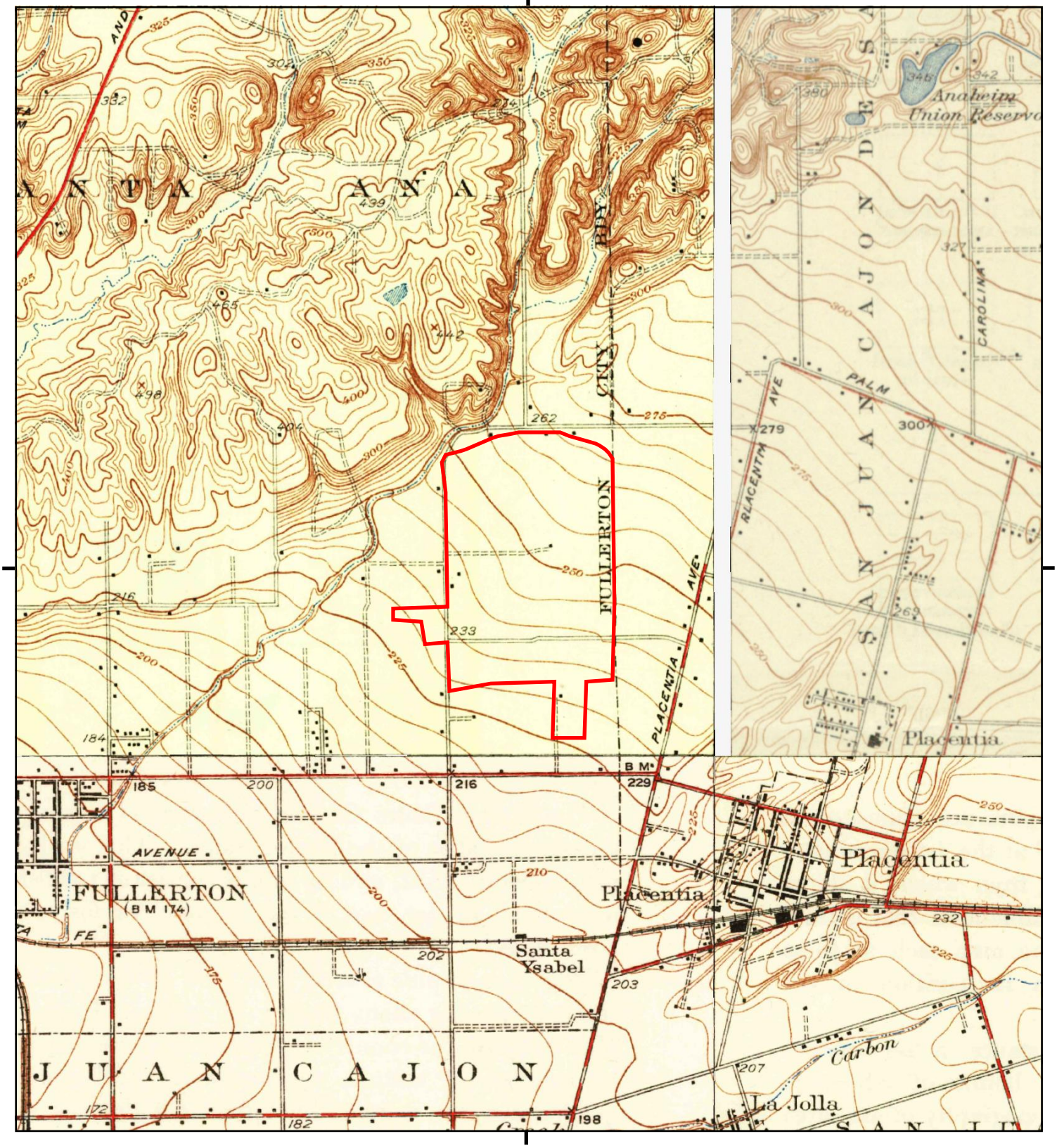
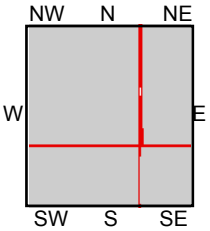
Historical Topo Map

1935



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5



TP, Coyote Hills, 1935, 7.5-minute
NE, OLINDA, 1935, 7.5-minute
SE, Orange, 1935, 7.5-minute
SW, Garden Grove, 1935, 7.5-minute

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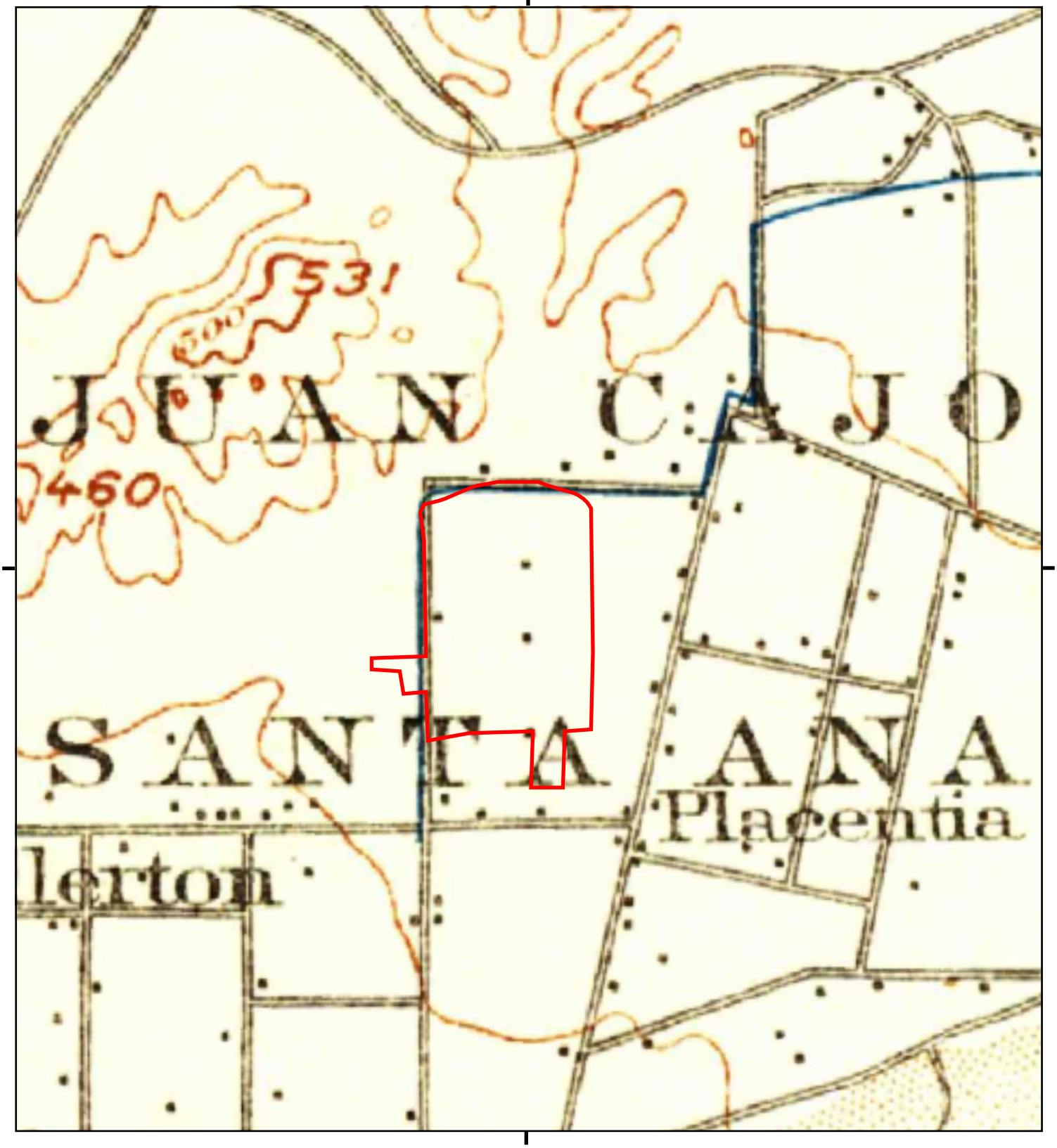
Historical Topo Map

1902



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Corona, 1902, 30-minute

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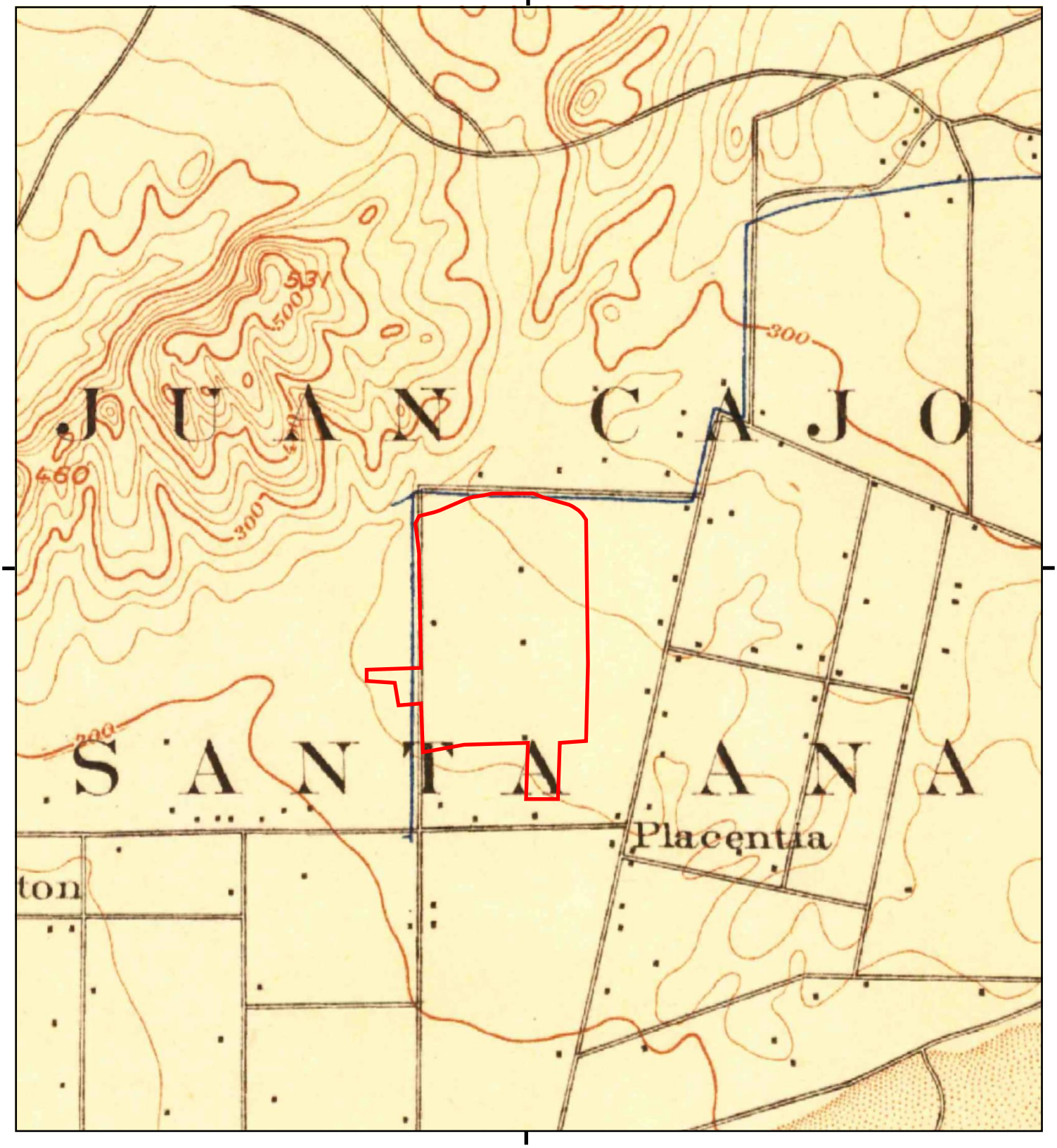
Historical Topo Map

1901



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Anaheim, 1901, 15-minute

SITE NAME: Cal State University Fullerton
ADDRESS: 800 N State College Boulevard
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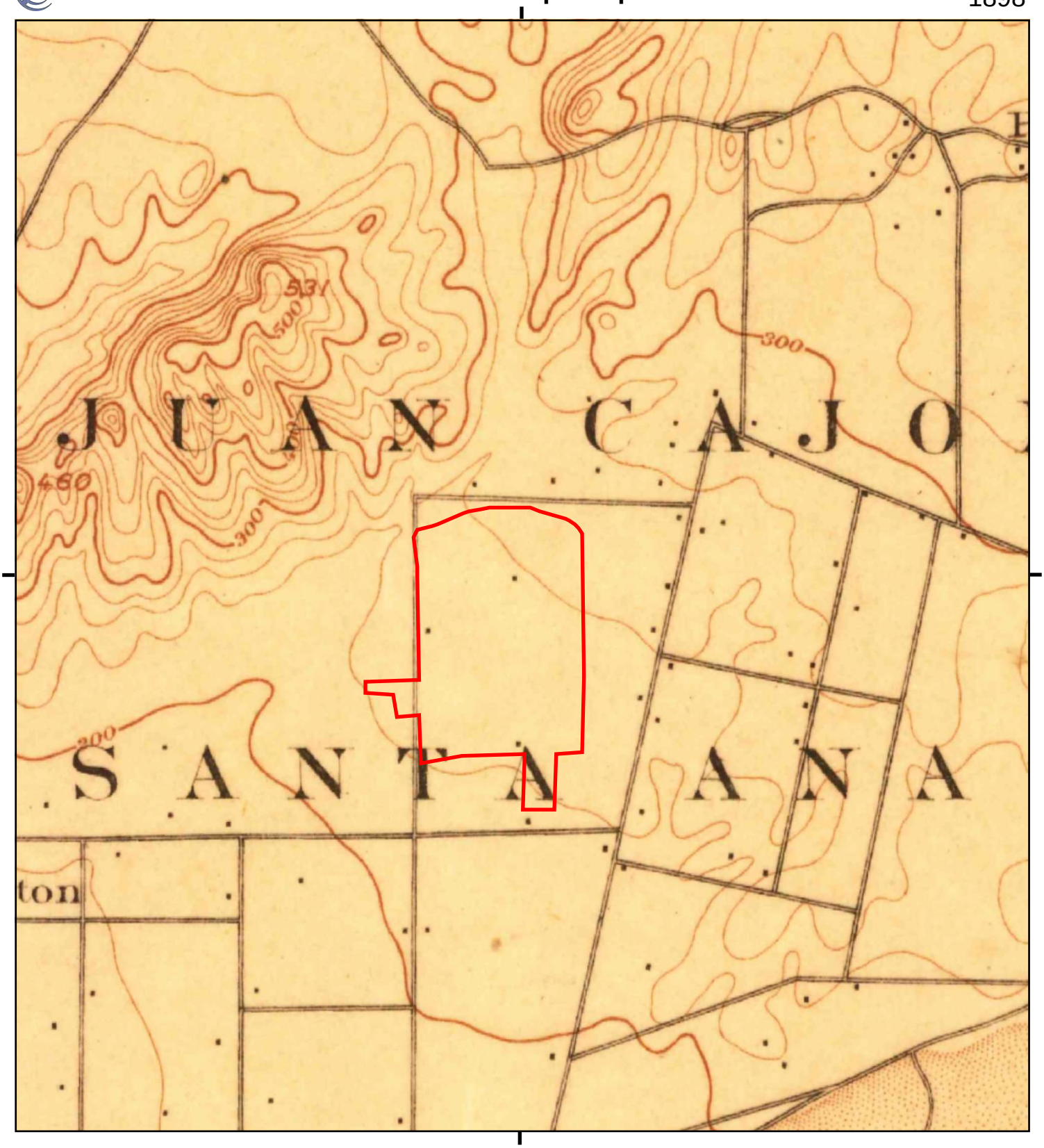
Historical Topo Map

1898



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Anaheim, 1898, 15-minute

SITE NAME: Cal State University Fullerton
ADDRESS: 800 N State College Boulevard
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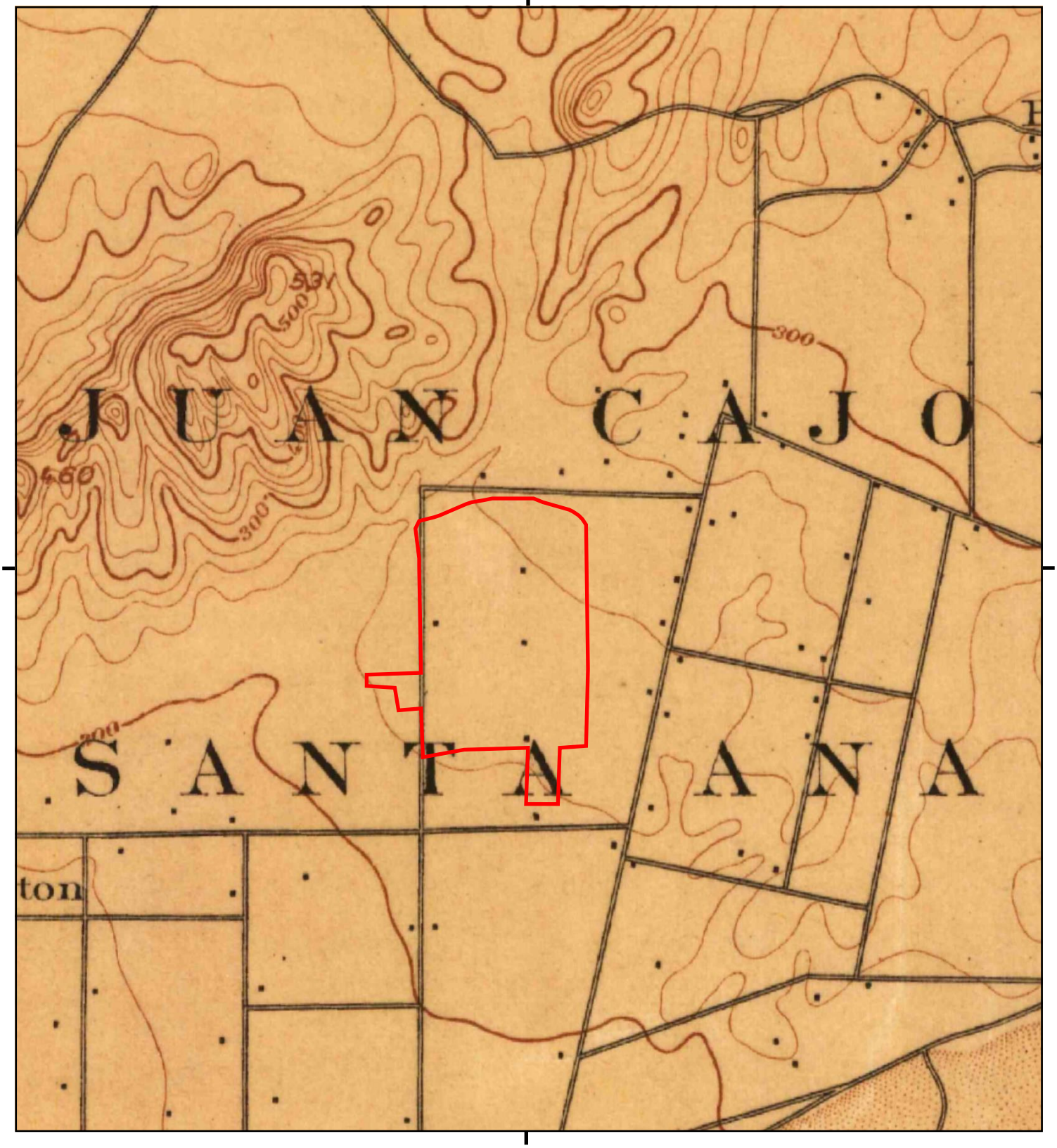
CLIENT: Rincon

N

Historical Topo Map

1896



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Anaheim, 1896, 15-minute

SITE NAME: Cal State University Fullerton
ADDRESS: 800 N State College Boulevard
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CLIENT: Rincon

N