

15 Acronyms and Abbreviations

Acronym	Definition
$\mu\text{g}/\text{m}^3$	micrograms per cubic meter
μT	Microtesla
2013 Supplemental Alternatives Analysis Report	<i>Merced to Fresno Section: Central Valley Wye Alternatives Supplemental Alternatives Analysis Report</i>
2016 Business Plan	<i>Connecting and Transforming California 2016 Business Plan</i>
AA	Assessment Area
AADT	annual average daily traffic
AB	Assembly Bill
AC	alternating current
ACGIH	American Conference of Governmental Industrial Hygienists
AChP	Advisory Council on Historic Preservation
ACM	asbestos-containing material
ACS	American Community Survey
ADL	aerially deposited lead
Air Quality and Global Climate Change Technical Report	<i>Merced to Fresno Section: Central Valley Wye Air Quality and Global Climate Change Technical Report</i>
ALUCP	Airport Land Use Compatibility Plan
ANSI/IEEE	American National Standards Institute/Institute of Electrical and Electronics Engineers
APE	area of potential effect
ASTM	ASTM International
Authority	California High-Speed Rail Authority
BAAH	Breaker-And-A-Half
BAAQMD	Bay Area Air Quality Management District
BAU	business-as-usual
Bay Area	San Francisco Bay Area
BCC	Birds of Conservation Concern
bcf/year	billion cubic feet per year
BETP	built environment treatment plan
BFE	base flood elevation
bgs	below ground surface
Biological Resources and Wetlands Technical Report	<i>Merced to Fresno Section: Central Valley Wye Biological Resources and Wetlands Technical Report</i>
BMP	best management practice

Acronym	Definition
BNSF	BNSF Railway
BPS	best performance standards
BRMP	biological resources management plan
Btu	British thermal units
CAA	Clean Air Act
CAAQS	California Ambient Air Quality Standards
Cal. Code Regs.	California Code of Regulations
Cal. Gov. Code	California Government Code
CAL-FIRE	California Department of Forestry and Fire Protection
Cal-OSHA	California Occupational Safety and Health Administration
Caltrans	California Department of Transportation
CARB	California Air Resources Board
CAT	computed axial tomography
CCA	copper chromated arsenate
CCID	Central California Irrigation District
CDFW	California Department of Fish and Wildlife
CDOF	California Department of Finance
CDPH	California Department of Public Health
CEC	California Energy Commission
CED	California Energy Demand
CEDD	California Employment Development Department
Central Valley RWQCB	Central Valley Regional Water Quality Control Board
Central Valley Wye	Merced to Fresno Section: Central Valley Wye
CEQ	Council on Environmental Quality
CEQA	California Environmental Quality Act
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CESA	California Endangered Species Act
CFC	chlorofluorocarbons
CGG	California Gas Gathering
C.F.R.	Code of Federal Regulations
CGS	California Geological Survey
CH ₄	methane
CHCD	California Department of Housing and Community Development
CMP	construction management plan
CNDDDB	California Natural Diversity Database

Acronym	Definition
CNPS	California Native Plant Society
CO	carbon monoxide
CO ₂	carbon dioxide
CO ₂ e	Carbon dioxide equivalent
Conditions of Receivership	Conditions of Receivership for Paleontologic Salvage Collections
CP	construction package
CPUC	California Public Utilities Commission
CRAM	California Rapid Assessment Method
CRHR	California Register of Historical Resources
CT	computed tomography
CTP	construction transportation plan
CUPA	Certified Unified Program Agencies
CVFPB	Central Valley Flood Protection Board
CWA	Clean Water Act
CWD	Chowchilla Water District
CWHR System	California Wildlife Habitat Relationships Habitat Classification Scheme
CMMW	California Wetlands Monitoring Workgroup
cy	cubic yard
dBA	A-weighted decibels
DC	direct current
DOC	Department of Conservation
DOGGR	Division of Oil, Gas and Geothermal Resources
DPM	diesel particulate matter
Draft Supplemental EIR/EIS	<i>California High-Speed Rail Merced to Fresno Section: Central Valley Wye Draft Supplemental Environmental Impact Report (EIR)/Supplemental Environmental Impact Statement (EIS)</i>
DTSC	California Department of Toxic Substances Control
DWR	California Department of Water Resources
EA	environmental assessment
ECA	essential connectivity area
EDR	Environmental Data Resources, Inc.
EFH	essential fish habitat
EGPR	environmental goals and policy report
EINU	electrical interconnections and network upgrades
EIR	environmental impact report

Acronym	Definition
EIR/EIS	environmental impact report/environmental impact statement
EIS	environmental impact statement
ELF	extremely low frequency
EM	electromagnetic
EMC	electromagnetic compatibility
EMF	electromagnetic field
EMFAC2014	Emission FACTors 2014
EMI	electromagnetic interference
EMMA	Environmental Mitigation Management and Assessment
EMR	electromagnetic radiation
EO	Executive Order
EOP	emergency operations plan
EPRI	Electric Power Research Institute
ERA	environmentally restricted area
ESA	environmental site assessment
FAA	Federal Aviation Administration
FBI	Federal Bureau of Investigation
FCC	Federal Communications Commission
FCFPD	Fresno County Fire Protection District
FEMA	Federal Emergency Management Agency
FESA	federal Endangered Species Act
FHWA	Federal Highway Administration
FIRM	flood insurance rate maps
FMMP	Farmland Mapping and Monitoring Program
FPPA	Farmland Protection Policy Act
FRA	Federal Railroad Administration
FSZ	Farmland Security Zone
FTA	Federal Transit Authority
FY	fiscal year
G	Gauss
GAMAQI	Guide for Assessing and Mitigating Air Quality Impacts
GC	general conformity
GHG	greenhouse gas
GHz	billion hertz
GIS	geographic information system

Acronym	Definition
GO	General Order
HAP	hazardous air pollutant
HCFC	hydrochlorofluorocarbon
HCP	habitat conservation plan
HF	high frequency
HI	hazard index
HMF	heavy maintenance facility
HMP	habitat mitigation plan
HMRD	Henry Miller Reclamation District
Hot Spots Act	Air Toxics “Hot Spots” Information and Assessment Act of 1987
HSR	high-speed rail
HUC	Hydrologic Unit Code
HVAC	heating, ventilation, and air-conditioning
Hz	hertz
IAMF	impact avoidance and minimization feature
ICNIRP	International Commission on Non-Ionizing Radiation Protection
IPaC	Information for Planning and Conservation
ISEP	Implementation Stage EMC Program Plan
K	kindergarten
kHz	kilohertz
kV	kilovolts
kV/m	kilovolts per meter
KVP	key viewpoint
LAFCo	Local Agency Formation Commission
LBP	lead-based paint
Ldn	day-night sound level
LEDPA	least environmentally damaging practicable alternative
Leq	equivalent sound level
LESA	land evaluation and site assessment
LID	low-impact development
LMF	light maintenance facility
LRA	local resource area
LOS	level of service
LWCF	Land and Water Conservation Fund
m	meter

Acronym	Definition
Madera County RTP	Madera County Final 2014 Regional Transportation Plan and Sustainable Communities Strategy
Madera ID	Madera Irrigation District
MBTA	Migratory Bird Treaty Act
MCAG	Merced County Association of Governments
MCTC	Madera County Transportation Commission
Merced to Fresno Final EIR/EIS	<i>Merced to Fresno Section Final Environmental Impact Report (EIR)/Environmental Impact Statement (EIS)</i>
mG	milligauss
MHz	megahertz
MMBtu	million British thermal units
MMT	million metric tons
MOA	Memorandum of Agreement
MOU	Memorandum of Understanding
MPE	maximum permissible exposure
mpg	miles per gallon
mph	miles per hour
MPO	metropolitan planning organization
MRI	magnetic resonance imaging
MS4	municipal separate storm sewer system
MSAT	mobile source air toxics
MT CO ₂ e	metric tons of carbon dioxide equivalent
MTC	Metropolitan Transportation Commission
MW	megawatts
mW/cm ²	milliwatt per square centimeter
N ₂ O	nitrous oxide
NAAQS	National Ambient Air Quality Standards
NAC	noise abatement criteria
NAIP	National Agriculture Imagery Program
NEPA	National Environmental Policy Act
NFPA	National Fire Protection Association
NHPA	National Historic Preservation Act
NHTSA	National Highway Traffic Safety Administration
NIMS	National Incident Management System
NIOSH	National Institute for Occupational Safety and Health

Acronym	Definition
NMFS	National Marine Fisheries Service
NMI	nuclear magnetic imaging
NMR	nuclear magnetic resonance
NO ₂	nitrogen dioxide
NOA	naturally occurring asbestos
NOD	Notice of Determination
NO _x	nitrogen oxide
NPDES	National Pollutant Discharge Elimination System
NPS	National Park Service
NRCS	Natural Resources Conservation Service
NRHP	National Register of Historic Places
O&M	operations and maintenance
O ₃	ozone
OCS	overhead contact system
ORFPD	Oakdale Rural Fire Protection District
OSHA	Occupational Safety and Health Administration
PA	Programmatic Agreement
Paleontological Resources Technical Report	<i>Merced to Fresno Section: Central Valley Wye Paleontological Resources Technical Report</i>
Pb	lead
PCB	polychlorinated biphenyl
PEC	potential environmental concern
PG&E	Pacific Gas & Electric
PHA	preliminary hazard analysis
PL	Public Law
PM	particulate matter
PM _{2.5}	particulate matter smaller than or equal to 2.5 microns in diameter
PM ₁₀	particulate matter smaller than or equal to 10 microns in diameter
ppb	parts per billion
ppm	parts per million
PRM	permittee-responsible mitigation
PRMMP	paleontological resources monitoring and mitigation plan
PRS	paleontological resources specialist
RCRA	Resource Conservation and Recovery Act

Acronym	Definition
REL	reference exposure level
RF	radio frequency
RIMS II	Regional Input-Output Model
ROD	Record of Decision
ROW	right-of-way
RSA	resource study area
RTP	regional transportation plans
RWQCB	Regional Water Quality Control Board
SACOG	Sacramento Area Council of Governments
SANDAG	San Diego Association of Governments
SAR	Special Aquatic Resource
SB	Senate Bill
SCAG	Southern California Association of Governments
SCFPD	Stanislaus Consolidated Fire Protection District
Scoping Plan	Climate Change Scoping Plan
SEMS	Standardized Emergency Management System
SEL	sound exposure level
Settlement	San Joaquin River Restoration Settlement Natural Resources Defense Council, et al., v. Kirk Rodgers, et al. Settlement Agreement
SF ₆	sulfur hexafluoride
SFBAAB	San Francisco Bay Area Air Basin
SFHA	special flood-hazard areas
SHPO	State Historic Preservation Officer
SHTAC	Swainson's Hawk Technical Advisory Committee
SIP	state implementation plan
SJRRP	San Joaquin River Restoration Program
SJVAB	San Joaquin Valley Air Basin
SJVAPCD	San Joaquin Valley Air Pollution Control District
SJVUAPCD	San Joaquin Valley Unified Air Pollution Control District
SNAP	Supplemental Nutrition Assistance Program
SO ₂	sulfur dioxide
SPCC	spill prevention control and countermeasure
SR	State Route
SSP	system safety program

Acronym	Definition
Standard Guidelines	Standard Guidelines for the Assessment and Mitigation of Adverse Impacts to Nonrenewable Paleontologic Resources
Statewide Program EIR/EIS	<i>Final Program EIR/EIS for the Proposed California High-Speed Train System EIR/EIS</i>
STB	Surface Transportation Board
SVP	Society of Vertebrate Paleontology
SWPPP	stormwater pollution prevention plan
SWRCB	State Water Resources Control Board
T	Tesla
TAC	toxic air contaminant
Tanner Act	Toxic Air Contaminant Identification and Control Act
TCE	temporary construction easement
THPO	Tribal Historic Preservation Officer
TMDL	total maximum daily load
TNAP	traffic noise analysis protocol
TPSS	traction power substations
UCMP	University of California Museum of Paleontology
Unified Program	Unified Hazardous Waste and Hazardous Materials Management Regulatory Program
UPRR	Union Pacific Railroad
USACE	U.S. Army Corps of Engineers
USBR	U.S. Bureau of Reclamation
U.S.C.	United States Code
U.S. DOT	U.S. Department of Transportation
USEO	U.S. Presidential Executive Order
USEPA	U.S. Environmental Protection Agency
USFWS	U.S. Fish and Wildlife Service
USGS	U.S. Geological Survey
V	volts
V/m	volts per meter
V2V	Valley to Valley
Valley to Valley Extension, or V2VE	San Jose to north of Bakersfield with potential extension to San Francisco and Bakersfield with a branch to Merced from the Bay Area
VdB	vibration velocity level
VHF	very high frequency
VMT	vehicle miles traveled
VOCs	volatile organic compounds

Acronym	Definition
VPC	Valley Planning Consultants, Inc.
W	watts
W/m ²	watts per square meter
WEAP	worker environmental awareness program
WEF	wildlife exclusion fencing
WiFi	wireless fidelity