



**DEPARTMENT OF PLANNING AND COMMUNITY DEVELOPMENT**

1010 10<sup>TH</sup> Street, Suite 3400, Modesto, CA 95354  
Planning Phone: (209) 525-6330 Fax: (209) 525-5911  
Building Phone: (209) 525-6557 Fax: (209) 525-7759

## **STANISLAUS COUNTY ENVIRONMENTAL REVIEW COMMITTEE REFERRAL**

**DATE:** April 12, 2019

**TO:** Agricultural Commissioner - Dan Bernaciak  
Chief Executive Office – Patrick Cavanah  
Cooperative Extension – Roger Duncan  
County Counsel – Todd James  
Environmental Resources - Bella Badal  
Hazardous Materials – Alvin Lal  
Stanislaus Fire Prevention Bureau – Randy Crook  
Public Works - Angie Halverson  
Sheriff Dept. – Lt. Anthony Bejaran

**FROM:** Department of Planning and Community Development – Kristin Doud

**SUBJECT:** ENVIRONMENTAL REFERRAL – USE PERMIT APPLICATION NO. PLN2019-0024 –  
LANGWORTH DAIRY

Stanislaus County has established an Environment Review Committee (ERC), which consists of representatives of the Departments of Public Works, Planning and Community Development, Environmental Resources, Fire Safety, County Counsel, and the Chief Executive Office. The ERC meets every other Wednesday at 9:30 AM at 1010 10<sup>th</sup> Street, Suite 3400, Modesto. The primary purpose of the ERC is to provide a unified County review and response to environmental issues associated with projects which are referred to the County. The Chief Executive Office has been designated as the County Agency responsible for coordinating the review process.

Each agency should review the projects from the point of view of impacts on its own areas of responsibility. Please be as specific as possible in the expected degree of impacts including costs of providing services and possible methods of mitigating the impacts to acceptable levels including mitigation fees. Please complete the attached response form or provide a written response within two weeks.

The California Environmental Quality Act establishes very tight time frames for review. For that reason, it is very important that a prompt response be provided. It is the hope that all County responses can be sent to the referring agencies as a package; however, in some instances the time for review does not permit that to happen. Some responses will have to be sent directly to the agency, with a copy to the Chief Executive Office. Please note below the date responses are needed and where to send them. Please send the original of any comments you may have directly to the agency listed below and a copy to the Stanislaus County Chief Executive Office. Please contact me if you have any questions.

**PROJECT AGENCY**  
Stanislaus County Planning  
& Community Development

**RESPOND TO**  
Kristen Anaya  
Assistant Planner

**RESPONSE DATE**  
April 30, 2019

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## STANISLAUS COUNTY ENVIRONMENTAL REVIEW COMMITTEE REFERRAL RESPONSE FORM

**TO:** Stanislaus County Planning & Community Development  
1010 10<sup>th</sup> Street, Suite 3400  
Modesto, CA 95354

**FROM:** \_\_\_\_\_

**SUBJECT:** USE PERMIT APPLICATION NO. PLN2019-0024 – LANGWORTH DAIRY

Based on this agency's particular field(s) of expertise, it is our position the above described project:

- \_\_\_\_\_ Will not have a significant effect on the environment.  
\_\_\_\_\_ May have a significant effect on the environment.  
\_\_\_\_\_ No Comments.

Listed below are specific impacts which support our determination (e.g., traffic general, carrying capacity, soil types, air quality, etc.) – (attach additional sheets if necessary)

- 1.
- 2.
- 3.
- 4.

Listed below are possible mitigation measures for the above-listed impacts *PLEASE BE SURE TO INCLUDE WHEN MITIGATION OR CONDITION NEEDS TO BE IMPLEMENTED (PRIOR TO RECORDING A MAP, PRIOR TO ISSUANCE OF A BUILDING PERMIT, ETC.):*

- 1.
- 2.
- 3.
- 4.

In addition, our agency has the following comments (attach additional sheets if necessary).

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Response prepared by:

---

| Name | Title | Date |
|------|-------|------|
|------|-------|------|



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## Referral Early Consultation

**Date:** April 12, 2019  
**To:** Distribution List (See Attachment A)  
**From:** Kristen Anaya, Assistant Planner  
Department of Planning and Community Development  
**Subject:** USE PERMIT APPLICATION NO. PLN2019-0024 – LANGWORTH DAIRY  
**Respond By:** April 30, 2019

**\*\*\*\*PLEASE REVIEW REFERRAL PROCESS POLICY\*\*\*\***

The Stanislaus County Department of Planning and Community Development is soliciting comments from responsible agencies under the Early Consultation process to determine: a) whether or not the project is subject to CEQA and b) if specific conditions should be placed upon project approval.

Therefore, please contact this office by the response date if you have any comments pertaining to the proposal. Comments made identifying potential impacts should be as specific as possible and should be based on supporting data (e.g., traffic counts, expected pollutant levels, etc.). Your comments should emphasize potential impacts in areas which your agency has expertise and/or jurisdictional responsibilities.

These comments will assist our Department in preparing a staff report to present to the Planning Commission. Those reports will contain our recommendations for approval or denial. They will also contain recommended conditions to be required should the project be approved. Therefore, please list any conditions that you wish to have included for presentation to the Commission as well as any other comments you may have. Please return all comments and/or conditions as soon as possible or no later than the response date referenced above.

Thank you for your cooperation. Please call (209) 525-6330 if you have any questions.

**Applicant:** Maria Silva, Langworth Dairy  
**Project Location:** 5306 Langworth Road, between Patterson and Claribel Roads, in the Oakdale area  
**APN:** 062-027-003  
**Williamson Act Contract:** 1976-2127  
**General Plan:** Agriculture  
**Current Zoning:** A-2-40 (General Agriculture)

**Project Description:** Request to reorganize the herd at an existing dairy facility, located on a 75.25± acre parcel, in the A-2-40 (General Agriculture) zoning district. This is a request to expand the approved number of combined milk and dry cows from 570 to 975. Calf numbers are to increase from 110 to 125. Heifers will be housed at an off-site heifer facility. Nutrients produced from the herd will be utilized to fertilize approximately 55 farmable acres on the same parcel. No construction is proposed, but the applicant proposes to add an additional wastewater storage pond with a

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storage capacity of approximately 340,481 cubic feet; otherwise, the existing dairy operation contains all the necessary corrals, feed storage, and utilities necessary to accommodate the proposed herd modification. The site is served by a private well and septic system and receives irrigation water from Oakdale Irrigation District. The site takes access off of County-maintained Langworth Road.

Full document with attachments available for viewing at:  
<http://www.stancounty.com/planning/pl/act-projects.shtm>





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**USE PERMIT APPLICATION NO. PLN2019-0024 – LANGWORTH DAIRY**

Attachment A

Distribution List

|   |   |   |  |
|---|---|---|--|
| X | CA DEPT OF CONSERVATION<br>Land Resources     |   | STAN CO ALUC   |
| X | CA DEPT OF FISH & WILDLIFE                    |   | STAN CO ANIMAL SERVICES                                  |
|   | CA DEPT OF FORESTRY (CAL FIRE)                | X | STAN CO BUILDING PERMITS DIVISION                        |
| X | CA DEPT OF TRANSPORTATION DIST 10             | X | STAN CO CEO  |
| X | CA OPR STATE CLEARINGHOUSE                    |   | STAN CO CSA  |
| X | CA RWQCB CENTRAL VALLEY REGION                | X | STAN CO DER  |
|   | CA STATE LANDS COMMISSION                     | X | STAN CO ERC  |
|   | CEMETERY DISTRICT                             | X | STAN CO FARM BUREAU                                      |
|   | CENTRAL VALLEY FLOOD PROTECTION               | X | STAN CO HAZARDOUS MATERIALS                              |
| X | CITY OF: RIVERBANK                            |   | STAN CO PARKS & RECREATION                               |
|   | COMMUNITY SERVICES/SANITARY DIST              | X | STAN CO PUBLIC WORKS                                     |
| X | COOPERATIVE EXTENSION                         |   | STAN CO RISK MANAGEMENT                                  |
|   | COUNTY OF:                                    | X | STAN CO SHERIFF  |
| X | FIRE PROTECTION DIST: OAKDALE<br>RURAL        | X | STAN CO SUPERVISOR 1: OLSEN                              |
| X | HOSPITAL DIST: OAK VALLEY                     | X | STAN COUNTY COUNSEL                                      |
| X | IRRIGATION DIST: OAKDALE                      |   | StanCOG  |
| X | MOSQUITO DIST: EASTSIDE                       | X | STANISLAUS FIRE PREVENTION BUREAU                        |
| X | MOUNTIAN VALLEY EMERGENCY<br>MEDICAL SERVICES | X | STANISLAUS LAFCO   |
|   | MUNICIPAL ADVISORY COUNCIL:                   |   | STATE OF CA SWRCB DIVISION OF<br>DRINKING WATER DIST. 10 |
| X | PACIFIC GAS & ELECTRIC                        |   | SURROUNDING LAND OWNERS                                  |
|   | POSTMASTER:                                   | X | TELEPHONE COMPANY: AT&T                                  |
| X | RAILROAD: BURLINGTON NORTHERN<br>SANTA FE     |   | TRIBAL CONTACTS<br>(CA Government Code §65352.3)         |
| X | SAN JOAQUIN VALLEY APCD                       |   | US ARMY CORPS OF ENGINEERS                               |
| X | SCHOOL DIST 1: OAKDALE UNION                  |   | US FISH & WILDLIFE                                       |
| X | SCHOOL DIST 2: OAKDALE UNIFIED                |   | US MILITARY (SB 1462) (7 agencies)                       |
|   | WORKFORCE DEVELOPMENT                         | X | USDA NRCS  |
| X | STAN CO AG COMMISSIONER                       |   | WATER DIST:  |
|   | TUOLUMNE RIVER TRUST                          |   |  |
|   |   |   |  |
|   |   |   |  |



## STANISLAUS COUNTY CEQA REFERRAL RESPONSE FORM

**TO:** Stanislaus County Planning & Community Development  
1010 10<sup>th</sup> Street, Suite 3400  
Modesto, CA 95354

**FROM:** \_\_\_\_\_

**SUBJECT:** USE PERMIT APPLICATION NO. PLN2019-0024 – LANGWORTH DAIRY

Based on this agency's particular field(s) of expertise, it is our position the above described project:

- \_\_\_\_\_ Will not have a significant effect on the environment.  
\_\_\_\_\_ May have a significant effect on the environment.  
\_\_\_\_\_ No Comments.

Listed below are specific impacts which support our determination (e.g., traffic general, carrying capacity, soil types, air quality, etc.) – (attach additional sheet if necessary)

- 1.
- 2.
- 3.
- 4.

Listed below are possible mitigation measures for the above-listed impacts: *PLEASE BE SURE TO INCLUDE WHEN THE MITIGATION OR CONDITION NEEDS TO BE IMPLEMENTED (PRIOR TO RECORDING A MAP, PRIOR TO ISSUANCE OF A BUILDING PERMIT, ETC.):*

- 1.
- 2.
- 3.
- 4.

In addition, our agency has the following comments (attach additional sheets if necessary).

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


Response prepared by:

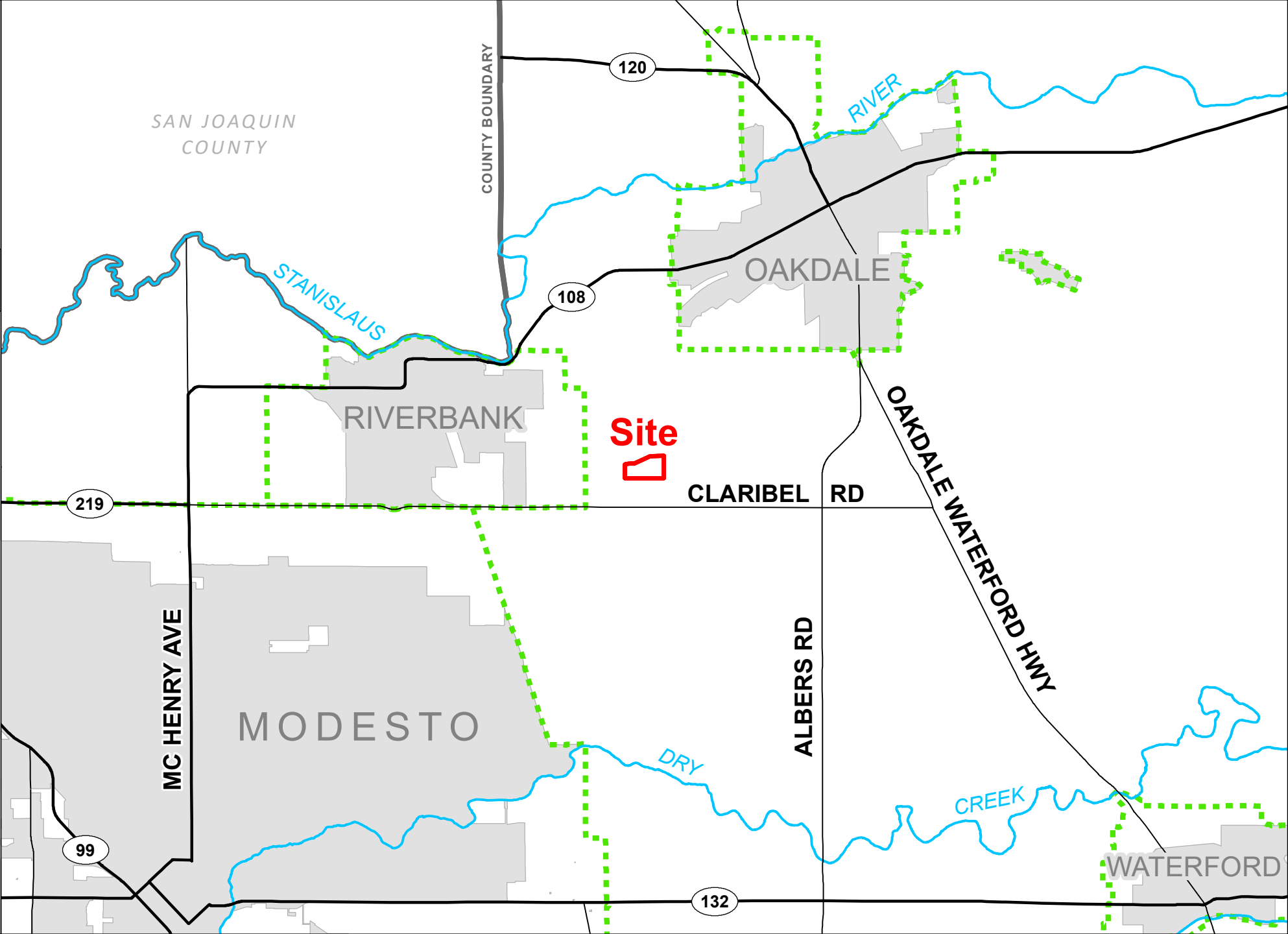
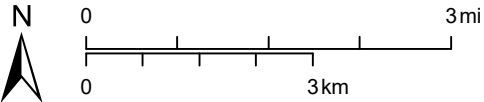
| Name | Title | Date |
|------|-------|------|
|------|-------|------|

# LANGWORTH DAIRY UP PLN2019-0024

## AREA MAP






### LEGEND



-  Project Site
-  Sphere of Influence
-  City
-  Road
-  River

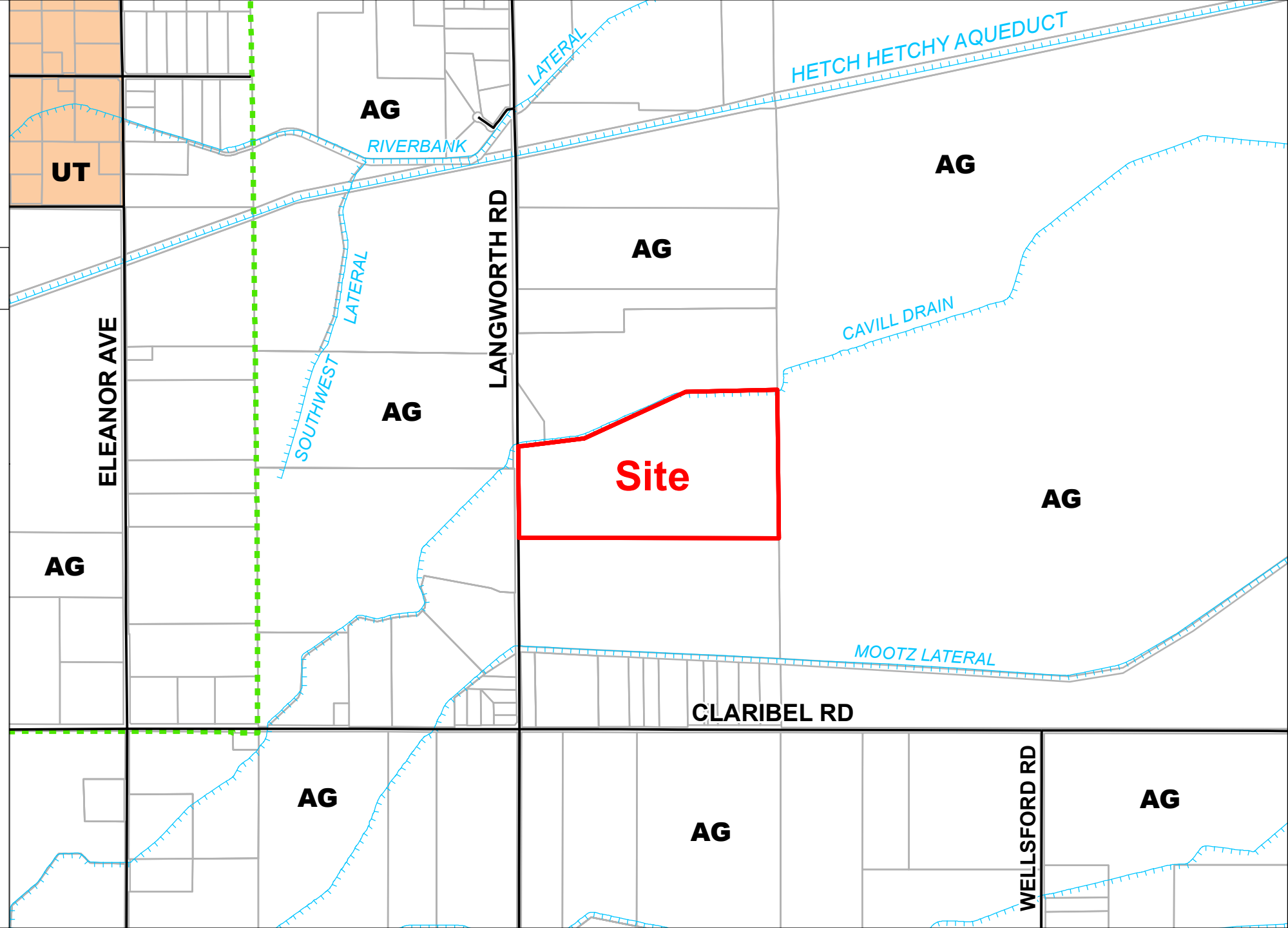
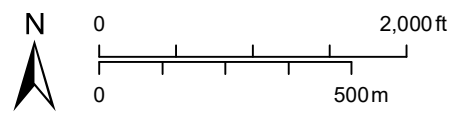


# LANGWORTH DAIRY UP PLN2019-0024

## GENERAL PLAN MAP

- LEGEND**
-  Project Site
  -  Sphere of Influence
  -  Parcel
  -  Road
  -  Canal






- General Plan**
-  Agriculture
  -  Urban Transition






# LANGWORTH DAIRY UP PLN2019-0024

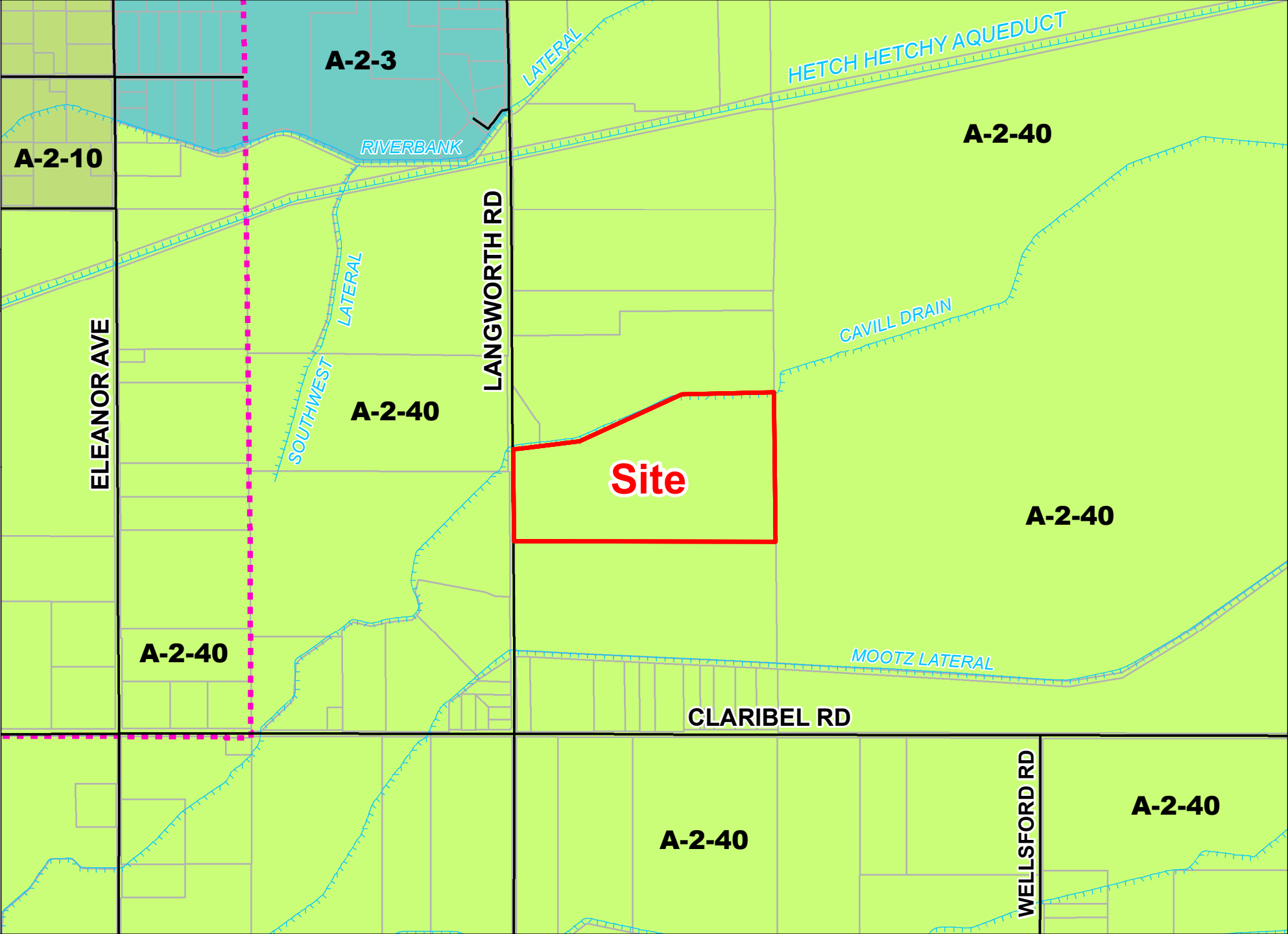
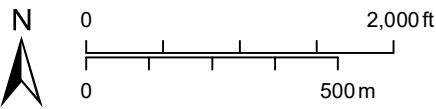
## ZONING MAP

### LEGEND

-  Project Site
-  Sphere of Influence
-  Parcel
-  Road
-  Canal

### Zoning Designation

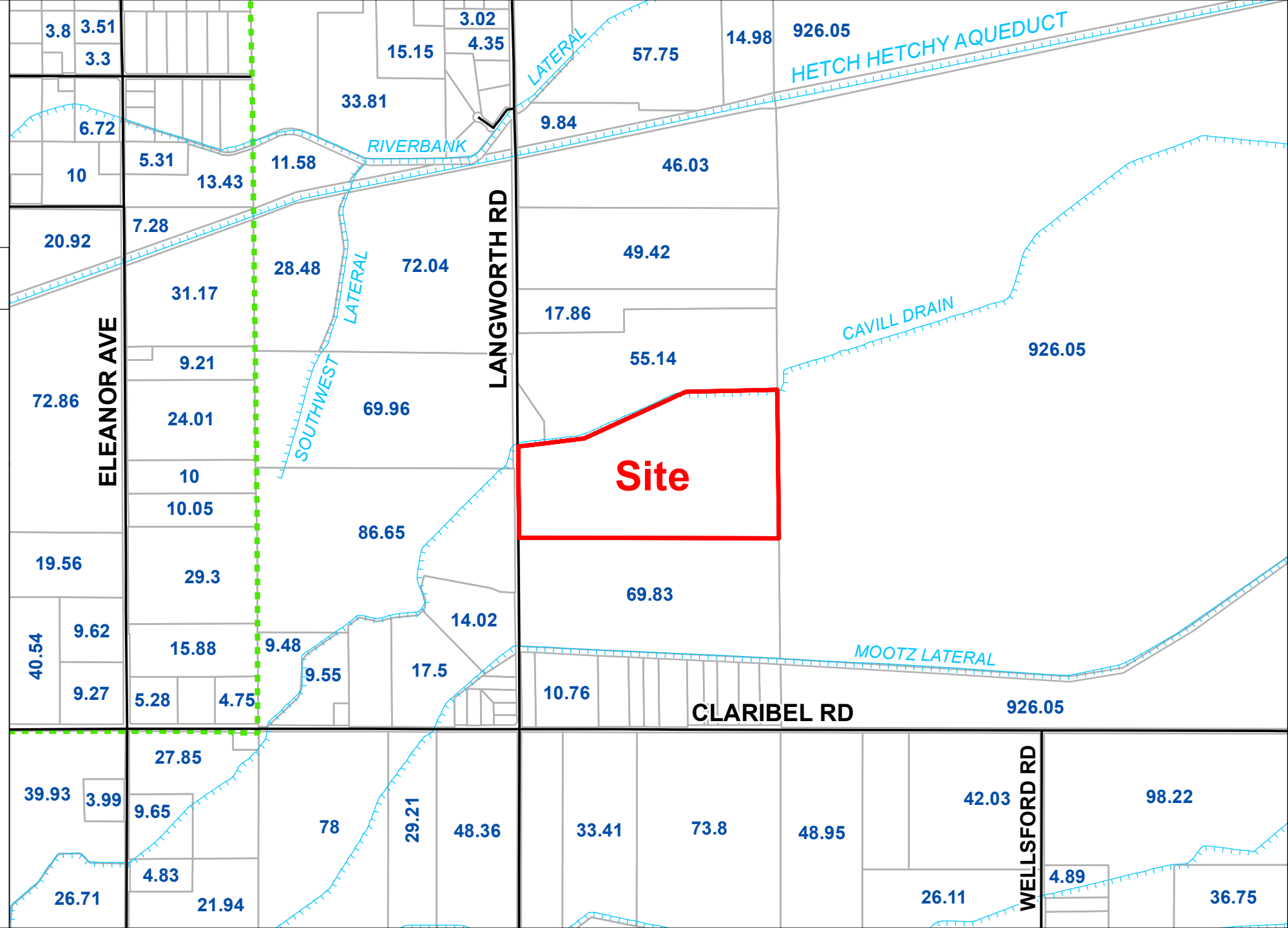
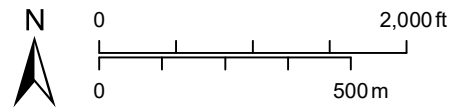
-  General Agriculture 3 Acre
-  General Agriculture 10 Acre
-  General Agriculture 40 Acre



# LANGWORTH DAIRY UP PLN2019-0024

## ACREAGE MAP





- LEGEND**
-  Project Site
  -  Sphere of Influence
  -  Parcel/Acres
  -  Road
  -  Canal

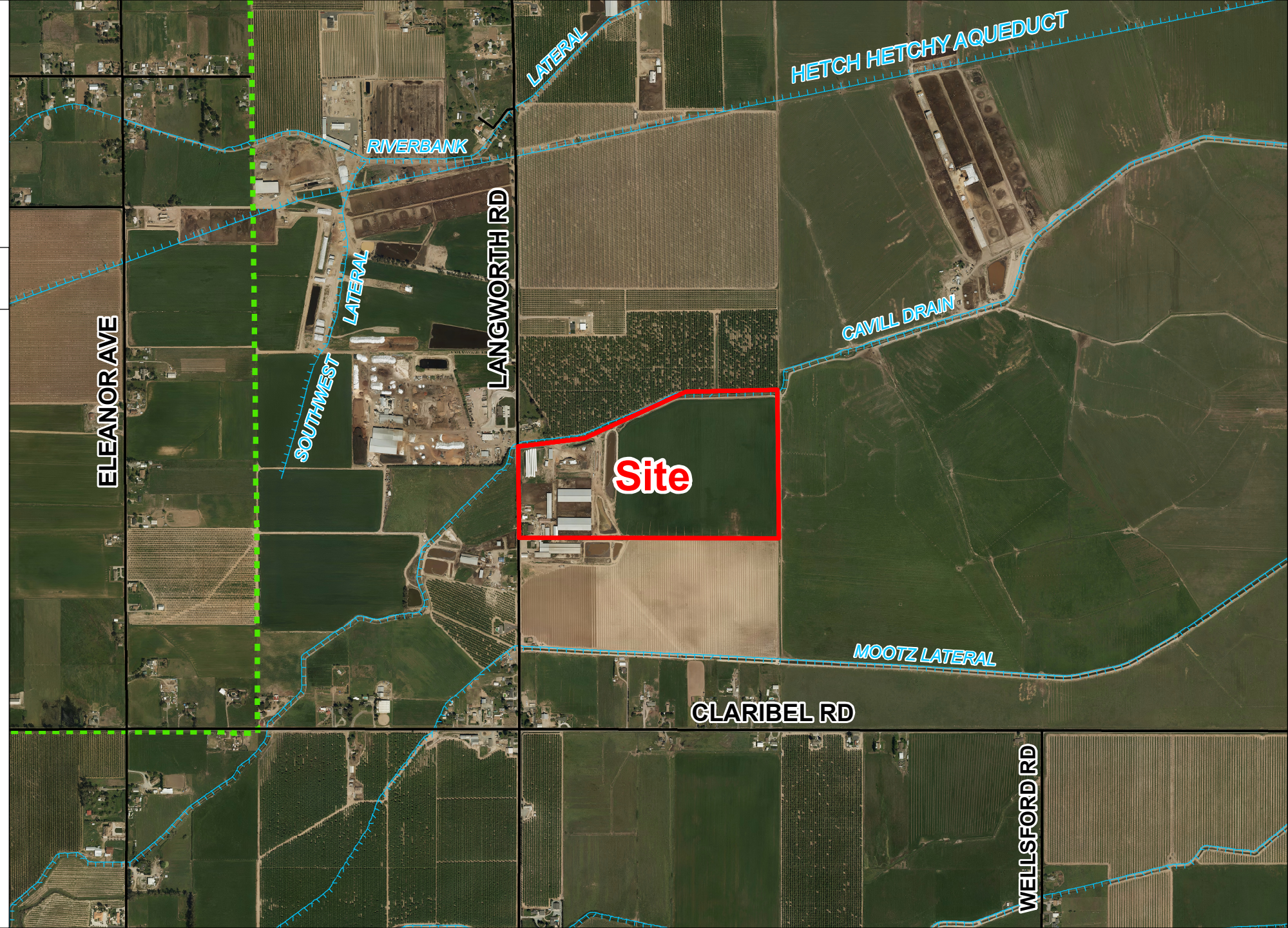
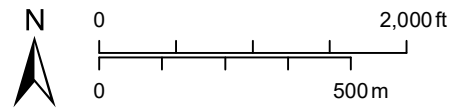




# LANGWORTH DAIRY UP PLN2019-0024

## 2017 AERIAL AREA MAP

- LEGEND**
-  Project Site
  -  Sphere of Influence
  -  Road
  -  Canal









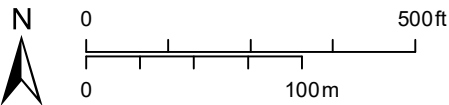
# LANGWORTH DAIRY

## UP PLN2019-0024

### 2017 AERIAL SITE MAP

#### LEGEND

-  Project Site
-  Sphere of Influence
-  Road
-  Canal



















This aerial map shows a 100-acre site with several key features and labels:





- Field 2 – 51 acres:** A large green field area on the right side of the map.
- New Pond:** A large, irregularly shaped pond located in the center-left area.
- Small Pond:** A smaller, irregularly shaped pond located below the New Pond.
- See Production Area Map for more details:** A label pointing to the area around the New Pond and Small Pond.
- Langworth Road:** A road running vertically along the left edge of the site.
- Google:** The Google logo is visible at the bottom center of the map.
- North Arrow:** A north arrow is located in the bottom right corner of the map.

**SCALE 410 ft**

Property boundary  Solids settling basin  County road drain  Irrigation flow  Wastewater pump 

Field boundary  Manure storage area  Calvill Drain/irrigation  Pipe  Floating flush pump 

Wastewater storage  Feed storage  Freshwater pipeline  Wastewater pipeline 

Tailwater recovery  Tailwater collection  Well  Mix stand pipe 

Information presented in this exhibit is based on interviews, site visits, and information presented in facility annual report (by others).  
Drainage direction is approximated based on visual observations and information presented in facility annual report (by others).  
Image obtained from Google Maps. No division of land is implied.

Dairy: Langworth Dairy  
5306 Langworth Road  
Oakdale, CA 95361

Produced by: Jacquie Captein  
Record Keeping, Inc.  
P.O. Box 386,  
Herald, CA 95638  
(209) 327-0992



# PRODUCTION AREA MAP



## LEGEND

- |                                |                     |
|--------------------------------|---------------------|
| Production Area boundary       | Wastewater pump     |
| SSB – Solids settling basin    | Pipe                |
| County road drain              | Freshwater drain    |
| Drainage                       | Rooftop catch drain |
| C – Corral and corral boundary | Well                |
| MS – Manure storage area       | Mix stand pipe      |
| Floating flush pump            | FB – Freestall barn |
| WWS – Wastewater storage       | MB – Milk barn      |
| FS – Feed storage              | CB – Commodity barn |
| Wastewater pipeline            | CFB – Calf barn     |
| Flush lane                     | HB – Hospital barn  |
| Tailwater collection           | S – Shop            |

## Notes:

Information presented in this exhibit is based on interviews, site visits, and information presented in facility annual report (by others).

Drainage direction is approximated based on visual observations and information presented in facility annual report (by others).

Image obtained from Google Maps. No division of land is implied.

Dairy: Langworth Dairy  
5306 Langworth Road  
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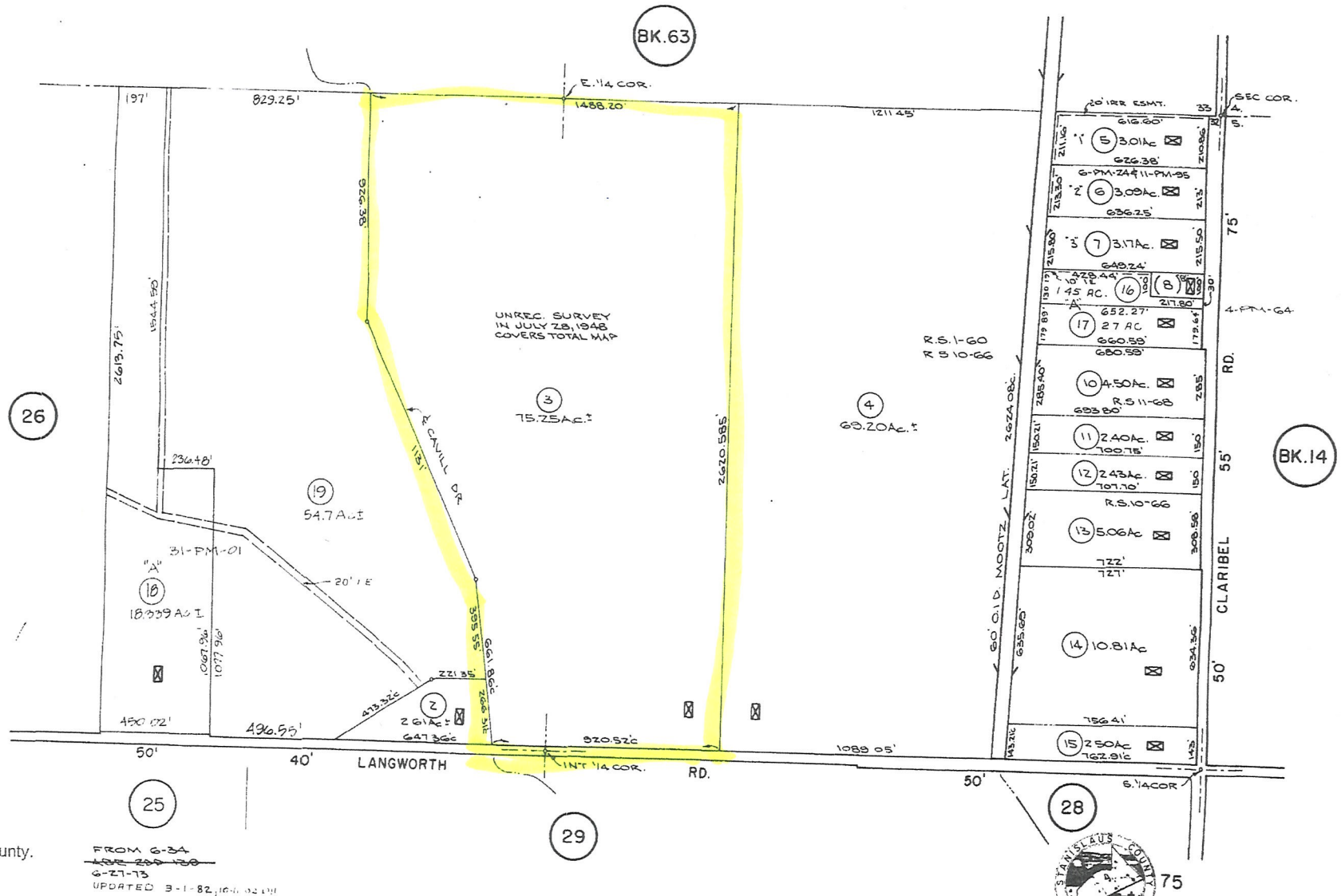
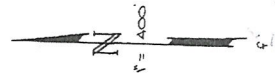
Produced by: Jacquie Captein Record Keeping, Inc.  
P.O. Box 386, Herald, CA 95638  
(209) 327-0992

SCALE 345 ft





THIS MAP FOR  
ASSESSMENT PURPOSES ONLY



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Form Available Online: <http://www.stancounty.com/planning/applications.shtm>

## APPLICATION QUESTIONNAIRE

**Please Check all applicable boxes****APPLICATION FOR:**

Staff is available to assist you with determining which applications are necessary

- |   |   |
|---|---|
| <input type="checkbox"/> General Plan Amendment | <input type="checkbox"/> Subdivision Map                        |
| <input type="checkbox"/> Rezone                 | <input type="checkbox"/> Parcel Map                             |
| <input checked="" type="checkbox"/> Use Permit  | <input type="checkbox"/> Exception                              |
| <input type="checkbox"/> Variance               | <input type="checkbox"/> Williamson Act Cancellation            |
| <input type="checkbox"/> Historic Site Permit   | <input checked="" type="checkbox"/> Other <u>Herd Expansion</u> |

**PLANNING STAFF USE ONLY:**Application No(s): UP 2019 0024Date: 3/18/19S 32 T 2 R 10GP Designation: AgricultureZoning: A-2-40 (Gen Ag)Fee: \$4,489Receipt No. 548778Received By: KA

Notes: \_\_\_\_\_

In order for your application to be considered COMPLETE, please answer all applicable questions on the following pages, and provide all applicable information listed on the checklist on pages i – v. Under State law, upon receipt of this application, staff has 30 days to determine if the application is complete. We typically do not take the full 30 days. It may be necessary for you to provide additional information and/or meet with staff to discuss the application. Pre-application meetings are not required, but are highly recommended. An incomplete application will be placed on hold until all the necessary information is provided to the satisfaction of the requesting agency. An application will not be accepted without all the information identified on the checklist.

Please contact staff at (209) 525-6330 to discuss any questions you may have. Staff will attempt to help you in any way we can.

## PROJECT INFORMATION

**PROJECT DESCRIPTION:** (Describe the project in detail, including physical features of the site, proposed improvements, proposed uses or business, operating hours, number of employees, anticipated customers, etc. – Attach additional sheets as necessary)

**\*Please note:** A detailed project description is essential to the reviewing process of this request. In order to approve a project, the Planning Commission or the Board of Supervisors must decide whether there is enough information available to be able to make very specific statements about the project. These statements are called "Findings". It is your responsibility as an applicant to provide enough information about the proposed project, so that staff can recommend that the Commission or the Board make the required Findings. Specific project Findings are shown on pages 17 – 19 and can be used as a guide for preparing your project description. (If you are applying for a Variance or Exception, please contact staff to discuss special requirements).

This application is a request for a Cow Herd Expansion from 570 milking and dry animals to 975.

December 11, 2018

CVRWQCB  
Central Valley Region  
11020 Sun Center Drive, #200  
Rancho Cordova, CA 95670

Attn: Ms. Charlene Herbst

RE: Operational Statement for Expanded Herd Request

Jose and Maria Silva of Langworth Dairy, located at 5306 Langworth Rd. in Oakdale, Stanislaus County are in the process of filing for an expansion of Herd Size from 570 Milking and Dry cows under the 2005 ROWD to 975 Milking and Dry cows.

The dairy currently has 55 farmable acres under its control. Only wastewater is applied to this acreage. All manure solids are exported for composting by an Ag based business, Caton Ag Inc. Mr. Matt Caton plans on continuing his relationship with the Silvas and will be able to take all manure solids the dairy produces. Other composting businesses have also expressed interest in taking any manure available.

Due to the limited acreage for land application of wastewater, plans are under way to reduce solids accumulation in the wastewater lagoons and settling basin. The Silvas have been approved and funded by NRCS to put in a separation system and a manure stacking pad. They are also applying for funding through the CDFA and the Alternative Manure Management Plan program. This will be for an additional mechanical separator and stacking pad. All manure solids will be stored on concrete when these projects are completed. The mechanical separation system has documentation showing 59% efficiency. This system, along with the system approved by NRCS, will dramatically reduce solids in the lagoons as well as decrease nutrient potency in the wastewater applied to cropland. This facility will also be a scrape facility.

The Nutrient Management Plan also reflects a cropping pattern designed to utilize as much of the wastewater as agronomically allowed and maintain a nutrient balance for N of 1.4. Sorghum Sudan also has a high uptake of phosphorous. Two cuttings are shown in the report but the plan is for three cuttings per season. Two cuttings are in the plan until three cuttings can be documented.

This dairy is already set up to transfer clean rainwater from the freestall and hospital barn rooves to the roadside ditch running parallel to Langworth Rd. All rainwater is moved through closed pipeline.

Plate cooler water is also being diverted as drinking water for the cows housed in the freestall and hospital barns. Only cleanup water used in the dairy parlor goes to the lagoons. The excess water used for drinking is stored in a separate tank. Fresh water will be used when it is needed to supplement the plate cooler water.

If you have any questions, please contact me at (209) 327-0992 or [dcomprerecords@yahoo.com](mailto:dcomprerecords@yahoo.com).

Respectfully submitted,

A handwritten signature in cursive script that reads "jacquie Captein". The signature is written in black ink and is positioned above the printed name.

Jacquie Captein

Jacquie Captein Record Keeping, Inc.

# PROJECT SITE INFORMATION

Complete and accurate information saves time and is vital to project review and assessment. Please complete each section entirely. If a question is not applicable to your project, please indicated this to show that each question has been carefully considered. Contact the Planning & Community Development Department Staff, 1010 10<sup>th</sup> Street – 3<sup>rd</sup> Floor, (209) 525-6330, if you have any questions. Pre-application meetings are highly recommended.

ASSESSOR'S PARCEL NUMBER(S): Book 0062 Page 0027 Parcel 0003

Additional parcel numbers: \_\_\_\_\_

Project Site Address \_\_\_\_\_

or Physical Location: \_\_\_\_\_

Property Area: Acres: 75.5 or Square feet: \_\_\_\_\_

Current and Previous Land Use: (Explain existing and previous land use(s) of site for the last ten years)

***Dairy Farm since 1935***

List any known previous projects approved for this site, such as a Use Permit, Parcel Map, etc.: (Please identify project name, type of project, and date of approval)

Existing General Plan & Zoning: ***Ag***

Proposed General Plan & Zoning: \_\_\_\_\_  
(if applicable)

ADJACENT LAND USE: (Describe adjacent land uses within 1,320 feet (1/4 mile) and/or two parcels in each direction of the project site)

East: ***Pasture***

West: ***Dairy/Pasture***

North: ***Almond Orchard***

South: ***Almond Orchard***

## WILLIAMSON ACT CONTRACT:

Yes ☒ No ☐

Is the property currently under a Williamson Act Contract?

Contract Number: 70-2127

If yes, has a Notice of Non-Renewal been filed?

Date Filed: \_\_\_\_\_

Yes ☐ No ☒

Do you propose to cancel any portion of the Contract?

Yes ☐ No ☒

Are there any agriculture, conservation, open space or similar easements affecting the use of the project site. (Such easements do not include Williamson Act Contracts)

If yes, please list and provide a recorded copy: \_\_\_\_\_

\_\_\_\_\_

**SITE CHARACTERISTICS:** (Check one or more)

Flat ☒

Rolling ☐

Steep ☐

**VEGETATION:** What kind of plants are growing on your property? (Check one or more)

Field crops ☒

Orchard ☐

Pasture/Grassland ☐

Scattered trees ☐

Shrubs ☐

Woodland ☐

River/Riparian ☐

Other ☐

Explain Other: \_\_\_\_\_

Yes ☐ No ☒

Do you plan to remove any trees? (If yes, please show location of trees planned for removal on plot plan and provide information regarding transplanting or replanting.)

**GRADING:**

Yes ☐ No ☒

Do you plan to do any grading? (If yes, please indicate how many cubic yards and acres to be disturbed. Please show areas to be graded on plot plan.) \_\_\_\_\_

\_\_\_\_\_

**STREAMS, LAKES, & PONDS:**

Yes ☐ No ☒

Are there any streams, lakes, ponds or other watercourses on the property? (If yes, please show on plot plan)

Yes ☐ No ☒

Will the project change any drainage patterns? (If yes, please explain – provide additional sheet if needed) \_\_\_\_\_

\_\_\_\_\_

Yes ☐ No ☒

Are there any gullies or areas of soil erosion? (If yes, please show on plot plan)

Yes ☐ No ☒

Do you plan to grade, disturb, or in any way change swales, drainages, ditches, gullies, ponds, low lying areas, seeps, springs, streams, creeks, river banks, or other area on the site that carries or holds water for any amount of time during the year? (If yes, please show areas to be graded on plot plan)

**Please note: If the answer above is yes, you may be required to obtain authorization from other agencies such as the Corps of Engineers or California Department of Fish and Game.**



## STRUCTURES:

Yes ☒ No ☐

Are there structures on the site? (If yes, please show on plot plan. Show a relationship to property lines and other features of the site.)

Yes ☐ No ☒

Will structures be moved or demolished? (If yes, indicate on plot plan.)

Yes ☐ No ☒

Do you plan to build new structures? (If yes, show location and size on plot plan.)

Yes ☐ No ☒

Are there buildings of possible Historical significance? (If yes, please explain and show location and size on plot plan.) \_\_\_\_\_

## PROJECT SITE COVERAGE:

Existing Building Coverage: \_\_\_\_\_ Sq. Ft.

Landscaped Area: NIA Sq. Ft.

Proposed Building Coverage: NIA Sq. Ft.

Paved Surface Area: \_\_\_\_\_ Sq. Ft.

## BUILDING CHARACTERISTICS:

Size of new structure(s) or building addition(s) in gross sq. ft.: (Provide additional sheets if necessary) NIA

Number of floors for each building: \_\_\_\_\_

Building height in feet (measured from ground to highest point): (Provide additional sheets if necessary) \_\_\_\_\_

Height of other appurtenances, excluding buildings, measured from ground to highest point (i.e., antennas, mechanical equipment, light poles, etc.): (Provide additional sheets if necessary) \_\_\_\_\_

Proposed surface material for parking area: (Provide information addressing dust control measures if non-asphalt/concrete material to be used) \_\_\_\_\_

## UTILITIES AND IRRIGATION FACILITIES:

Yes ☒ No ☐

Are there existing public or private utilities on the site? Includes telephone, power, water, etc. (If yes, show location and size on plot plan)

Who provides, or will provide the following services to the property?

Electrical: PG&E

Sewer\*: Septic

Telephone: Cellular Only

Gas/Propane: Van Unen Miersma Propane

Water\*\*: Private Well

Irrigation: Oakdale Irr. District

**\*Please Note:** A "will serve" letter is required if the sewer service will be provided by City, Sanitary District, Community Services District, etc.

**\*\*Please Note:** A "will serve" letter is required if the water source is a City, Irrigation District, Water District, etc., and the water purveyor may be required to provide verification through an Urban Water Management Plan that an adequate water supply exists to service your proposed development.

Will any special or unique sewage wastes be generated by this development other than that normally associated with resident or employee restrooms? Industrial, chemical, manufacturing, animal wastes? (Please describe:)

**Herd expansion will increase production of animal waste. Please refer to Waste Management Plan for details.**

Please Note: Should any waste be generated by the proposed project other than that normally associated with a single family residence, it is likely that Waste Discharge Requirements will be required by the Regional Water Quality Control Board. Detailed descriptions of quantities, quality, treatment, and disposal may be required.

Yes ☒ No ☐ Are there existing irrigation, telephone, or power company easements on the property? (If yes, show location and size on plot plan.)

Yes ☐ No ☒ Do the existing utilities, including irrigation facilities, need to be moved? (If yes, show location and size on plot plan.)

Yes ☐ No ☒ Does the project require extension of utilities? (If yes, show location and size on plot plan.)

#### **AFFORDABLE HOUSING/SENIOR:**

Yes ☐ No ☒ Will the project include affordable or senior housing provisions? (If yes, please explain)

#### **RESIDENTIAL PROJECTS:** (Please complete if applicable – Attach additional sheets if necessary)

Total No. Lots: \_\_\_\_\_ Total Dwelling Units: \_\_\_\_\_ Total Acreage: \_\_\_\_\_

Net Density per Acre: \_\_\_\_\_ Gross Density per Acre: \_\_\_\_\_

| (complete if applicable) | Single Family | Two Family Duplex | Multi-Family Apartments | Multi-Family Condominium/Townhouse |
|--------------------------|---------------|-------------------|-------------------------|------------------------------------|
| Number of Units:         | _____         | _____             | _____                   | _____                              |
| Acreage:                 | _____         | _____             | _____                   | _____                              |

#### **COMMERCIAL, INDUSTRIAL, MANUFACTURING, RETAIL, USE PERMIT, OR OTHER PROJECTS:** (Please complete if applicable – Attach additional sheets if necessary)

Square footage of each existing or proposed building(s): \_\_\_\_\_

Type of use(s): \_\_\_\_\_

Days and hours of operation: \_\_\_\_\_

Seasonal operation (i.e., packing shed, huller, etc.) months and hours of operation: \_\_\_\_\_

Occupancy/capacity of building: \_\_\_\_\_

Number of employees: (Maximum Shift): \_\_\_\_\_ (Minimum Shift): \_\_\_\_\_

Estimated number of daily customers/visitors on site at peak time: \_\_\_\_\_

Other occupants: \_\_\_\_\_

Estimated number of truck deliveries/loadings per day: \_\_\_\_\_

Estimated hours of truck deliveries/loadings per day: \_\_\_\_\_

Estimated percentage of traffic to be generated by trucks: \_\_\_\_\_

Estimated number of railroad deliveries/loadings per day: \_\_\_\_\_

Square footage of:

Office area: \_\_\_\_\_

Warehouse area: \_\_\_\_\_

Sales area: \_\_\_\_\_

Storage area: \_\_\_\_\_

Loading area: \_\_\_\_\_

Manufacturing area: \_\_\_\_\_

Other: (explain type of area) \_\_\_\_\_

Yes ☐ No ☐

Will the proposed use involve toxic or hazardous materials or waste? (Please explain)

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

## ROAD AND ACCESS INFORMATION:

What County road(s) will provide the project's main access? (Please show all existing and proposed driveways on the plot plan)

***Langworth Rd.***

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Yes ☐ No ☒

Are there private or public road or access easements on the property now? (If yes, show location and size on plot plan)

Yes ☐ No ☒

Do you require a private road or easement to access the property? (If yes, show location and size on plot plan)

Yes ☐ No ☒

Do you require security gates and fencing on the access? (If yes, show location and size on plot plan)

**Please Note: Parcels that do not front on a County-maintained road or require special access may require approval of an Exception to the Subdivision Ordinance. Please contact staff to determine if an exception is needed and to discuss the necessary Findings.**

### STORM DRAINAGE:

How will your project handle storm water runoff? (Check one) ☐ Drainage Basin ☐ Direct Discharge ☐ Overland

☒ Other: (please explain) **Clean roofwater drains to roadside ditch. Contaminated is contained**

If direct discharge is proposed, what specific waterway are you proposing to discharge to? \_\_\_\_\_

**Please Note: If direct discharge is proposed, you will be required to obtain a NPDES permit from the Regional Water Quality Control Board, and must provide evidence that you have contacted them regarding this proposal with your application.**

### EROSION CONTROL:

If you plan on grading any portion of the site, please provide a description of erosion control measures you propose to implement.

**Please note: You may be required to obtain an NPDES Storm Water Permit from the Regional Water Quality Control Board and prepare a Storm Water Pollution Prevention Plan.**

### ADDITIONAL INFORMATION:

Please use this space to provide any other information you feel is appropriate for the County to consider during review of your application. (Attach extra sheets if necessary)

**This application is for a herd expansion of mature cows only. There will be a reduction of younger support stock to accomodate the increased number of milking and dry cows.**  
**The young stock will be housed at a separate bovine facility.**

## Vehicle Trips

### Daily

Cal Freight-Milk truck

A&A Cattle-Bull calves

Nicholas Calf Ranch-Custom Calf Raising

Caton Ag-Hauls Silage From Stockton Islands

### Weekly

Quality Milk Service-(lander Vet Medicine)

Veterinary Pharmaceuticals Inc.-Supplies/Medicine

B&B Towels-Dairy Towels

Gilton-Trash

Clark Pest Control

Animal Health International-Supplies

### Bi-Weekly

San Joaquin Dairy Services-Supplies

Valley Pacific-Fuel For Farm Equipment

JS West-Propane

### Monthly

Jacquie Captein Record Keeping

Movin Hay-Hay

Siffer Brothers Inc-Hay

(4x) Foster Farms=Feed

(6x) Al Gilbert Co-Feed

### Quartly

Mid Valley Ag-Fertilizer-Spray

### Seasonal

Caton Ag-Harvest Crop/Haul Off Dried Manure

Tine Covering-Cover silage

### As Needed

Montiz-Dead Stock

TDR-Repairs Done on Dairy Equipment

Surge-Repairs Done on Dairy Equipment

N&S Tractor-Repairs Done on Farm Equipment

Garton Tractor-Repairs Done on Farm Equipment

Kirby- Repairs Done on Feed Wagon

Bobcat Central- Repairs Done on Bobcat

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**DAIRY FACILITY INFORMATION**

**A. NAME OF DAIRY OR BUSINESS OPERATING THE DAIRY:** Langworth Dairy

Physical address of dairy:

|                   |         |            |          |
|-------------------|---------|------------|----------|
| 5306 Langworth RD | Oakdale | Stanislaus | 95361    |
| Number and Street | City    | County     | Zip Code |

Street and nearest cross street (if no address): \_\_\_\_\_

TRS Data and Coordinates:

|               |            |              |                   |                  |                   |
|---------------|------------|--------------|-------------------|------------------|-------------------|
| 2S            | 10E        | 32           | Mt. Diablo        | 37° 46' 21.00" N | 120° 12' 12.00" W |
| Township (T_) | Range (R_) | Section (S_) | Baseline meridian | Latitude (N)     | Longitude (W)     |

Date facility was originally placed in operation: 01/01/1935

Regional Water Quality Control Board Basin Plan designation: San Joaquin River Basin

County Assessor Parcel Number(s) for dairy facility:

0062-0027-0003-0000

**B. OPERATOR NAME:** Silva, Jose Manuel Telephone no.: (209) 869-3348 (209) 765-8008  
Landline Cellular

|                                   |         |       |          |
|-----------------------------------|---------|-------|----------|
| P.O. Box 2153                     | Oakdale | CA    | 95361    |
| Mailing Address Number and Street | City    | State | Zip Code |

Operator should receive Regional Board correspondence (check): ☒ Yes ☐ No

**OPERATOR NAME:** Silva, Maria Telephone no.: (209) 869-3348 (209) 765-8008  
Landline Cellular

|                                   |         |       |          |
|-----------------------------------|---------|-------|----------|
| P.O. Box 2153                     | Oakdale | CA    | 95361    |
| Mailing Address Number and Street | City    | State | Zip Code |

Operator should receive Regional Board correspondence (check): ☒ Yes ☐ No

**C. LEGAL OWNER NAME:** Silva, Jose Manuel Telephone no.: (209) 869-3348 (209) 765-8008  
Landline Cellular

|                                   |         |       |          |
|-----------------------------------|---------|-------|----------|
| P.O. Box 2153                     | Oakdale | CA    | 95361    |
| Mailing Address Number and Street | City    | State | Zip Code |

Owner should receive Regional Board correspondence (check): ☒ Yes ☐ No

**LEGAL OWNER NAME:** Silva, Maria Telephone no.: (209) 869-3348 (209) 765-8008  
Landline Cellular

|                                   |         |       |          |
|-----------------------------------|---------|-------|----------|
| P.O. Box 2153                     | Oakdale | CA    | 95361    |
| Mailing Address Number and Street | City    | State | Zip Code |

Owner should receive Regional Board correspondence (check): ☒ Yes ☐ No

**D. CONTACT NAME:** Captein, Jacquie Telephone no.: (209) 748-5020 (209) 327-0992  
Landline Cellular

Title: Consultant

|                                   |        |       |          |
|-----------------------------------|--------|-------|----------|
| P.O. Box 386                      | Herald | CA    | 95638    |
| Mailing Address Number and Street | City   | State | Zip Code |

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|   |                |                       |              |
|---|----------------|-----------------------|--------------|
| <b>CONTACT NAME:</b> <u>Ward, Matthew</u> | Telephone no.: | <u>(209) 263-1382</u> |              |
|   | Landline       | Cellular              |              |
| Title: <u>Civil Engineer</u>              |                |                       |              |
| <u>981 Rosburn WAY</u>                    | <u>Galt</u>    | <u>CA</u>             | <u>95632</u> |
| Mailing Address Number and Street         | City           | State                 | Zip Code     |



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**HERD AND MILKING EQUIPMENT**

**A. HERD AND MILKING**

The milk cow dairy is currently regulated under individual Waste Discharge Requirements.

Total number of milk and dry cows combined as a baseline value in response to the Report of Waste Discharge (ROWD) request of October, 2005:

975 milk and dry cows combined (regulatory review is required for any expansion)

| Type of Animal           | Present Count | Maximum Count | Daily Flush Hours | Avg Live Weight (lbs) |
|--------------------------|---------------|---------------|-------------------|-----------------------|
| Milk Cows                | 800           | 800           | 0                 | 1,400                 |
| Dry Cows                 | 175           | 175           | 0                 | 1,500                 |
| Bred Heifers (15-24 mo.) | 0             | 0             | 0                 | 0                     |
| Heifers (7-14 mo.)       | 0             | 0             | 0                 | 0                     |
| Calves (4-6 mo.)         | 0             | 0             | 0                 |                       |
| Calves (0-3 mo.)         | 125           | 125           | 0                 |                       |

Predominant milk cow breed:

Holstein

Average milk production:

69 pounds per cow per day

Average number of milk cows per string sent to the milkbarn:

200 milk cows per string

Number of milkings per day:

2.0 milkings per day

Number of times milk tank is emptied/filled each day:

1.0 per day

Number of hours spent milking each day:

16.0 hours per day

**B. MILKBARN EQUIPMENT AND FLOOR WASH**

Bulk tank wash and sanitizing:

3.0 run cycles/wash

Bulk tank wash vat volume:

55 gallons/cycle

Bulk tank wash wastewater:

165.0 gallons/day

Pipeline wash and sanitizing:

2.0 run cycles/wash

Pipeline wash vat volume:

75 gallons/cycle

Pipeline wash wastewater:

300.0 gallons/day

Reused / recycled water is the source of parlor floor wash water:

☒ Yes   ☐ No

Milkbarn / parlor floor wash volume:

3,500 gallons/day

Plate coolers type:

Well Water Cooled (Water Reused/Recycled)

Plate coolers volume:

8,000 gallons/day

Vacuum pumps / air compressors / chillers type:

Mechanically/Air Cooled

Vacuum pumps / air compressors / chillers volume:

0 gallons/day

Milkbarn and equipment wastewater volume generated daily:

3,965 gallons/day

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**C. OTHER WATER USES**

Reused/recycled water is the source of herd drinking water: ☒ Yes ☐ No

|  | Milk Cows | Dry Cows | Bred Heifers<br>(15-24 mo.) | Bred Heifers<br>(7-14 mo.) | Calves<br>(4-6 mo.) | Calves<br>(0-3 mo.) |
|--|-----------|----------|-----------------------------|----------------------------|---------------------|---------------------|
| Number of cows drinking from reusable water: | 200       | 0        | 0                           | 0                          | 0                   | 0                   |
|  | of 800    | of 175   | of 0                        | of 0                       | of 0                | of 125              |
| Gallons per head per day:                    | 25        | 0        | 0                           | 0                          | 0                   | 0                   |

Total reusable water consumed by herd: 5,000 gallons/day

Reused/recycled water is the source of sprinkler pen water: ☒ Yes ☐ No

Number of sprinklers in the holding pen: 0 sprinklers

Duration of each sprinkler cycle: 0.1 minutes

Number of sprinkler pen runs/milking: 0 cycles/milking

Flow rate for each sprinkler head: 0.1 gallons/minute

Total sprinkler pen wastewater volume: 0 gallons/day

Total fresh water used in manure flush lane system(s): 0 gallons/day

**D. MISCELLANEOUS EQUIPMENT**

*No miscellaneous equipment entered.*

**E. MILKBARN AND EQUIPMENT SUMMARY**

Number of days in storage period: 120 days

Water available for reuse/recycle: 8,000 gallons/day

Recycled water reused: 8,500 gallons/day

Recycled water leaving system: 5,000 gallons/day

Reusable water balance: 0 gallons/day

Volume of milkbarn and equipment wastewater generated for storage period: 475,800 gallons/storage period

**MANURE AND BEDDING SOLIDS**

**A. IMPORTED AND FACILITY GENERATED BEDDING**

| Bedding Type               | Imported or Generated<br>(tons) | Density<br>(lbs/cu. ft.) | Applied Separation Efficiency<br>(default) | Solids to Pond<br>(cu. ft./period) |
|----------------------------|---------------------------------|--------------------------|--|------------------------------------|
| Facility generated bedding | 300                             | 40.0                     | 50%  | 7,500                              |
|                            |                                 |                          | Total:                                     | 7,500                              |

**B. SOLIDS SEPARATION PROCESS**

Combined manure solids separation efficiency (weight basis): 50 %

Description of all solids separation equipment used in flushed lane manure management systems:

Solids Separation System with catch basin system

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**C. MANURE AND BEDDING SOLIDS SUMMARY**

|  | cubic feet          |                | gallons          |                |
|--|---------------------|----------------|------------------|----------------|
|  | day                 | storage period | day              | storage period |
| Manure generated by the herd (pre-separation):               | 2,050.97            | 246,116        | 15,342.31        | 1,841,077      |
| Manure generated by the herd sent to pond(s):                | 0.00                | 0              | 0.00             | 0              |
| Manure generated by the herd sent to dry lot(s):             | 2,050.97            | 246,116        | 15,342.31        | 1,841,077      |
| Manure solids (herd) removed by separation:                  | 0.00                | 0              | 0.00             | 0              |
| Liquid component in separated solids not sent to pond(s):    | 0.00                | 0              | 0.00             | 0              |
| Imported and facility generated bedding sent to pond(s):     | 62.50               | 7,500          | 467.53           | 56,104         |
| Total manure and bedding sent to pond(s):                    | 62.50               | 7,500          | 467.53           | 56,104         |
| Residual manure solids and bedding sent to pond(s) w/factor: | 31.25               | 3,750          | 233.77           | 28,052         |
|  | cubic feet per year |                | gallons per year |                |
| Residual manure solids and bedding sent to pond(s) w/factor: | 11,406              |                | 85,325           |                |

**RAINFALL AND RUNOFF**

**A. RAINFALL ESTIMATES**

Rainfall station nearest the facility: Oakdale

25 year/24 hour storm event (default NOAA Atlas 2, 1973): 2.50 inches/storage period

25 year/24 hour storm event (user-override): \_\_\_\_\_ inches/storage period

Storage period rainfall (default DWR climate data): 10.08 inches/storage period

Storage period rainfall (user-override): \_\_\_\_\_ inches/storage period

Flood zone: Zone X

**B. IMPERVIOUS AREAS**

| Name                   | Surface Area (sq. ft.) | Quantity | 25yr/24hr Storm Runoff Coefficient | Storage Period Runoff Coefficient | Runoff Destination   |
|------------------------|------------------------|----------|------------------------------------|-----------------------------------|----------------------|
| Separator Stacking Pad | 26,600                 | 1        | 0.95                               | 0.50                              | Drains into pond(s). |
| Silage Storage         | 13,870                 | 1        | 0.95                               | 0.50                              | Drains into pond(s). |
| Sprinkler Pen          | 1,625                  | 1        | 0.95                               | 0.50                              | Drains into pond(s). |

Surface area that does not run off into pond(s): 0 sq. ft.

Surface area that runs off into pond(s): 42,095 sq. ft.

Total surface area: 42,095 sq. ft.

Runoff from normal storage period rainfall: 132,255 gallons/storage period

Runoff from normal storage period rainfall with 1.5 factor: 198,382 gallons/storage period

25 year/24 hour storm event runoff: 62,322 gallons/storage period

Total surface area runoff: 194,577 gallons/storage period

Total surface area runoff with 1.5 factor: 260,705 gallons/storage period

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**C. ROOF AREAS**

| Name           | Surface Area (sq. ft.) | Quantity | Runoff Destination |
|----------------|------------------------|----------|--------------------|
| Barn           | 7,200                  | 1        | District drain     |
| Calf Barn      | 3,948                  | 1        | District Drain     |
| Commodity Barn | 5,000                  | 1        | District Drain     |
| Freestall      | 42,500                 | 2        | District drain     |
| Heifer Barn    | 6,000                  | 1        | District Drain     |
| Hospital Barn  | 880                    | 1        | Wastewater pond    |
| Milk Barn      | 2,310                  | 1        | Wastewater pond    |
| Shade Barn     | 39,000                 | 1        | District Drain     |
| Shop           | 1,215                  | 1        | District drain     |

Surface area that does not run off into pond(s): 147,363 sq. ft.

Surface area that runs off into pond(s): 3,190 sq. ft.

Total surface area: 150,553 sq. ft.

Runoff from normal storage period rainfall: 20,045 gallons/storage period

Runoff from normal storage period rainfall with 1.5 factor: 30,067 gallons/storage period

25 year/24 hour storm event runoff: 4,971 gallons/storage period

Total surface area runoff: 25,016 gallons/storage period

Total surface area runoff with 1.5 factor: 35,039 gallons/storage period

**D. EARTHEN AREAS**

| Name                 | Surface Area (sq. ft.) | Quantity | 25yr/24 Storm Coefficient | Storage Period Coefficient | Runoff Destination   |
|----------------------|------------------------|----------|---------------------------|----------------------------|----------------------|
| Freestall Corrals    | 19,175                 | 1        | 0.35                      | 0.20                       | Drains into pond(s). |
| Freestall Corrals    | 52,752                 | 1        | 0.35                      | 0.20                       | Drains into pond(s). |
| Freestall Corrals    | 35,048                 | 1        | 0.35                      | 0.20                       | Drains into pond(s). |
| Manure Storage       | 7,000                  | 1        | 0.35                      | 0.20                       | Drains into pond(s). |
| Solid Manure Storage | 4,400                  | 1        | 0.35                      | 0.20                       | Drains into pond(s). |

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|   |                                       |
|---|---------------------------------------|
| Surface area that does not run off into pond(s):            | <u>0</u> sq. ft.                      |
| Surface area that runs off into pond(s):                    | <u>118,375</u> sq. ft.                |
| Total surface area:   | <u>118,375</u> sq. ft.                |
| Runoff from normal storage period rainfall:                 | <u>148,765</u> gallons/storage period |
| Runoff from normal storage period rainfall with 1.5 factor: | <u>223,148</u> gallons/storage period |
| 25 year/24 hour storm event runoff:                         | <u>64,568</u> gallons/storage period  |
| Total surface area runoff:                                  | <u>213,333</u> gallons/storage period |
| Total surface area runoff with 1.5 factor:                  | <u>287,716</u> gallons/storage period |

**E. TAILWATER MANAGEMENT**

| Name     | Volume (gallons) |
|----------|------------------|
| Field #2 | 175,000          |

Total tailwater volume conveyed to retention pond(s): 175,000 gallons/storage period

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**LIQUID STORAGE**

**A. POND OR BASIN DESCRIPTION:** New Pond

Pond is rectangular in shape: ☐ Yes ☒ No

**Dimensions**

|                      |             |                         |                  |
|----------------------|-------------|-------------------------|------------------|
| Earthen Length (EL): | _____ ft.   | Earthen Depth (ED):     | _____ ft.        |
| Earthen Width (EW):  | _____ ft.   | Side Slope (S):         | _____ ft. (h:1v) |
| Free Board (FB):     | _____ 2 ft. | Dead Storage Loss (DS): | _____ ft.        |

**Calculations**

|                     |                       |   |                           |
|---------------------|-----------------------|---|---------------------------|
| Liquid Length (LL): | _____ ft.             | Storage Volume Adjusted<br>for Dead Storage Loss: | _____ 259,192 cu. ft.     |
| Liquid Width (LW):  | _____ ft.             |   |                           |
| Pond Surface Area:  | _____ 63,705 sq. ft.  | Pond Marker Elevation:                            | _____ 7.0 ft.             |
| Storage Volume:     | _____ 340,481 cu. ft. | Evaporation Volume:                               | _____ 621,847 gals/period |
|                     |                       | Adjusted Surface Area:                            | _____ sq. ft.             |

**POND OR BASIN DESCRIPTION:** Small Pond

Pond is rectangular in shape: ☐ Yes ☒ No

**Dimensions**

|                      |             |                         |                  |
|----------------------|-------------|-------------------------|------------------|
| Earthen Length (EL): | _____ ft.   | Earthen Depth (ED):     | _____ ft.        |
| Earthen Width (EW):  | _____ ft.   | Side Slope (S):         | _____ ft. (h:1v) |
| Free Board (FB):     | _____ 2 ft. | Dead Storage Loss (DS): | _____ ft.        |

**Calculations**

|                     |                       |   |                           |
|---------------------|-----------------------|---|---------------------------|
| Liquid Length (LL): | _____ ft.             | Storage Volume Adjusted<br>for Dead Storage Loss: | _____ 419,914 cu. ft.     |
| Liquid Width (LW):  | _____ ft.             |   |                           |
| Pond Surface Area:  | _____ 34,283 sq. ft.  | Pond Marker Elevation:                            | _____ 18.0 ft.            |
| Storage Volume:     | _____ 455,745 cu. ft. | Evaporation Volume:                               | _____ 334,650 gals/period |
|                     |                       | Adjusted Surface Area:                            | _____ sq. ft.             |

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**POND OR BASIN DESCRIPTION:** Solid Settling Basin

Pond is rectangular in shape: [ ] Yes [X] No

**Dimensions**

|                                |                                   |
|--------------------------------|-----------------------------------|
| Earthen Length (EL): _____ ft. | Earthen Depth (ED): _____ ft.     |
| Earthen Width (EW): _____ ft.  | Side Slope (S): _____ ft. (h:1v)  |
| Free Board (FB): _____ 1 ft.   | Dead Storage Loss (DS): _____ ft. |

**Calculations**

|   |   |
|---|---|
| Liquid Length (LL): _____ ft.           | Storage Volume Adjusted<br>for Dead Storage Loss: _____ 138,612 cu. ft. |
| Liquid Width (LW): _____ ft.            |   |
| Pond Surface Area: _____ 15,768 sq. ft. | Pond Marker Elevation: _____ 11.0 ft.                                   |
| Storage Volume: _____ 150,715 cu. ft.   | Evaporation Volume: _____ 153,921 gals/period                           |
|   | Adjusted Surface Area: _____ sq. ft.                                    |

Potential storage losses (due to dead storage): \_\_\_\_\_ 129,223.0 cubic feet - or - \_\_\_\_\_ 966,655.2 gallons

Liquid storage surface area: \_\_\_\_\_ 0 sq. ft.

Rainfall onto retention pond(s): \_\_\_\_\_ 714,801 gallons/storage period

Rainfall runoff into retention pond(s): \_\_\_\_\_ 301,065 gallons/storage period

Normal rainfall onto retention pond(s) with 1.5 factor: \_\_\_\_\_ 1,072,202 gallons/storage period

Normal rainfall runoff into retention pond(s) with 1.5 factor: \_\_\_\_\_ 451,597 gallons/storage period

Storage period evaporation (default): \_\_\_\_\_ 11.50 inches/storage period

Storage period evaporation (user-override): \_\_\_\_\_ inches/storage period

Storage period evaporation volume: \_\_\_\_\_ 1,110,418 gallons/storage period

Manure and bedding sent to pond(s): \_\_\_\_\_ 56,104 gallons/storage period

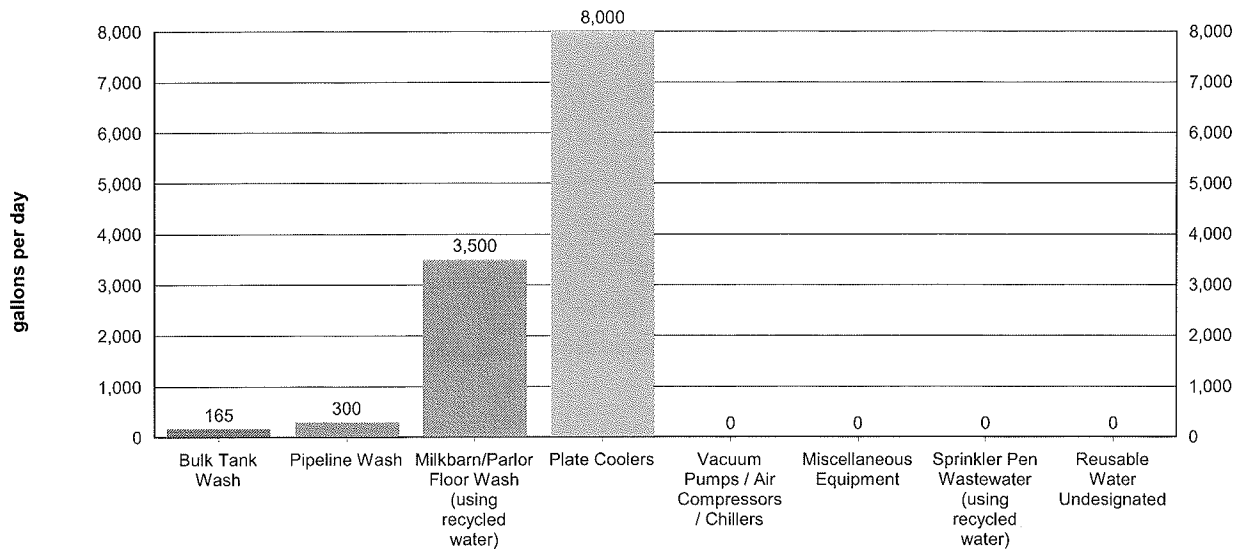
Milkbarn water sent to pond(s): \_\_\_\_\_ 475,800 gallons/storage period

Fresh flush water for storage period: \_\_\_\_\_ 0 gallons/storage period

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CHARTS

**A. MILKBARN WASTEWATER SENT TO POND(S)**



*Values shown in chart are approximate values per day.*

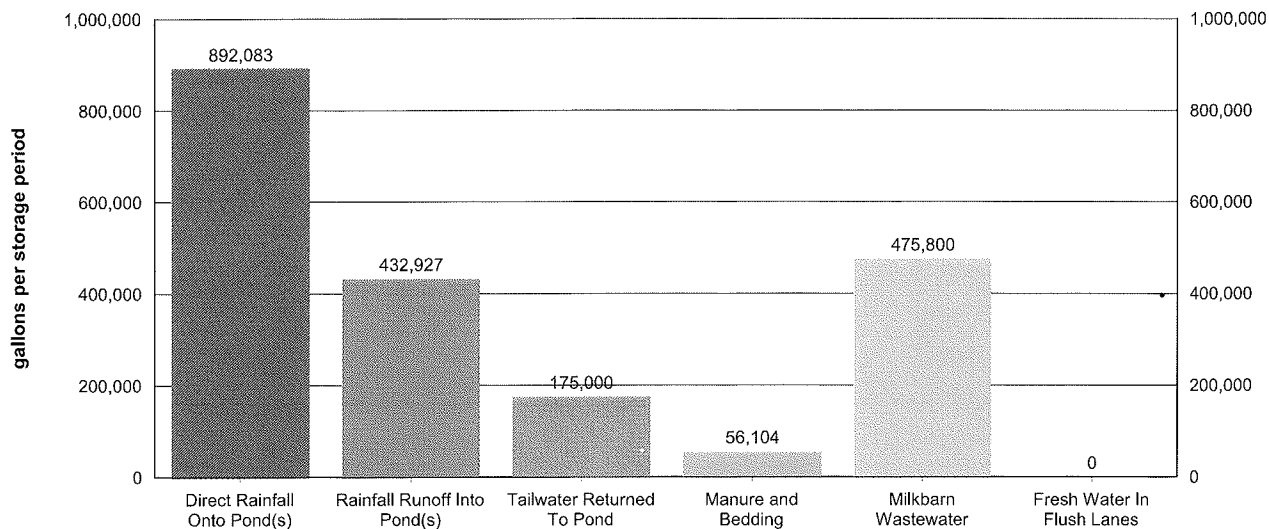
Total milkbarn wastewater generated daily: 3,965 gallons/day

Total milkbarn wastewater generated per period: 475,800 gallons/storage period



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**B. PROCESS WASTEWATER (NORMAL PRECIPITATION)**

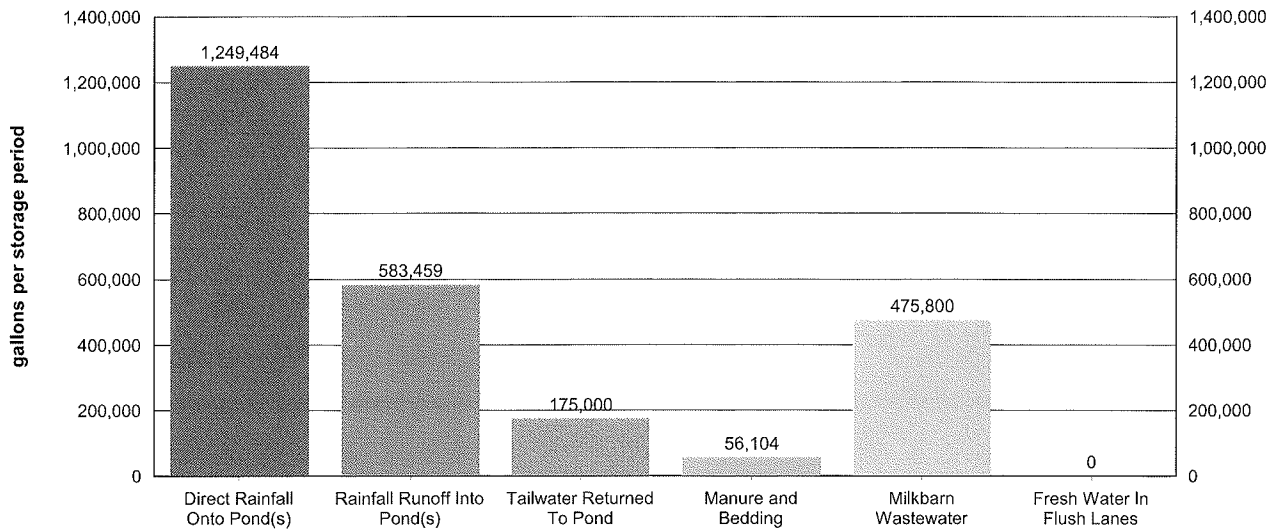


*Values shown in chart are approximate values for storage period.*

|   |   |
|---|---|
| Storage period:   | <u>120</u> days                         |
| Total process wastewater generated daily:   | <u>16,933</u> gallons/day               |
| Total process wastewater generated per period:  | <u>2,031,914</u> gallons/storage period |
| Total process wastewater removed due to evaporation:  | <u>1,110,418</u> gallons/storage period |
| Total storage capacity required:  | <u>921,496</u> gallons                  |
|   | <u>123,186</u> cu. ft.                  |
| Existing storage capacity (adjusted for dead storage loss):   | <u>6,116,955</u> gallons                |
|   | <u>817,718</u> cu. ft.                  |
| <b>Considering normal precipitation, existing capacity meets estimated storage needs:</b> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No . |   |

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**C. PROCESS WASTEWATER (NORMAL PRECIPITATION WITH 1.5 FACTOR)**



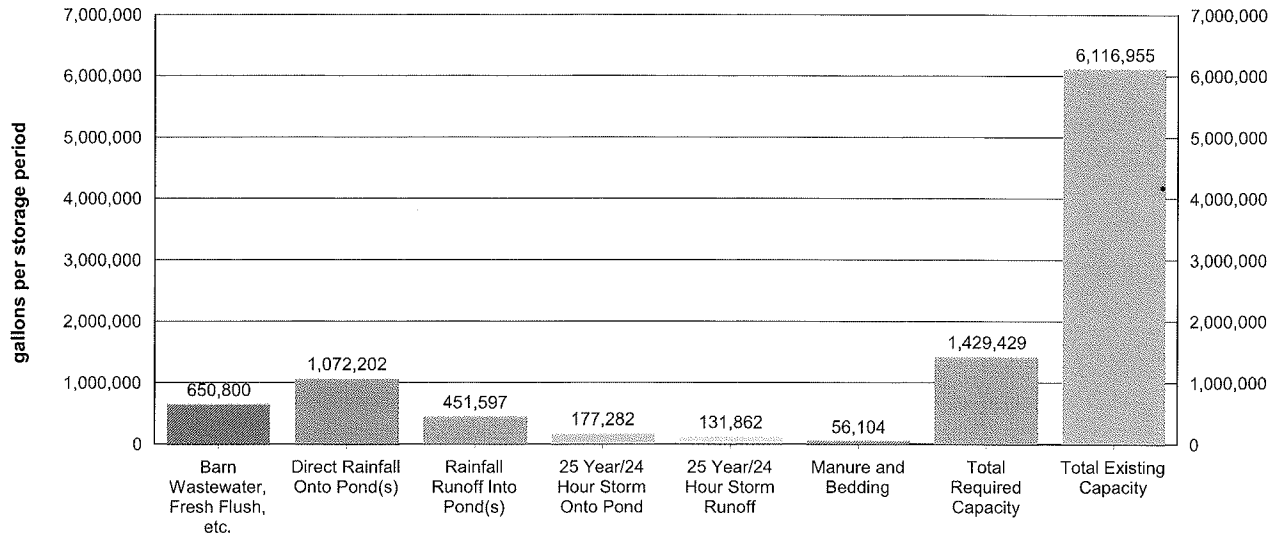
*Values shown in chart are approximate values for storage period.*

|   |   |
|---|---|
| Storage period:   | <u>120 days</u>                         |
| Total process wastewater generated daily:                   | <u>21,165 gallons/day</u>               |
| Total process wastewater generated per period:              | <u>2,539,847 gallons/storage period</u> |
| Total process wastewater removed due to evaporation:        | <u>1,110,418 gallons/storage period</u> |
| Total storage capacity required:                            | <u>1,429,429 gallons</u>                |
|   | <u>191,087 cu. ft.</u>                  |
| Existing storage capacity (adjusted for dead storage loss): | <u>6,116,955 gallons</u>                |
|   | <u>817,718 cu. ft.</u>                  |

**Considering factored precipitation, existing capacity meets estimated storage needs:**    ☒ Yes    ☐ No

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**D. STORAGE VOLUME ASSESSMENT (NORMAL PRECIPITATION WITH 1.5 FACTOR)**



*Values shown in chart are approximate values for storage period.*

|  |   |
|--|---|
| Storage period:  | <u>120 days</u>   |
| Barn wastewater, fresh flush water, and tailwater:                   | <u>650,800 gallons/storage period</u>                               |
| Manure and bedding sent to pond:                                     | <u>56,104 gallons/storage period</u>                                |
| Precipitation onto pond:   | <u>1,072,202 gallons/storage period</u>                             |
| Precipitation runoff:  | <u>451,597 gallons/storage period</u>                               |
| 25 year/24 hour storm onto pond:                                     | <u>177,282 gallons/storage period</u>                               |
| 25 year/24 hour storm runoff:  | <u>131,862 gallons/storage period</u>                               |
| Residual solids after liquids have been removed (liquid equivalent): | <u>28,052 gallons/storage period</u>                                |
| Total process wastewater removed due to evaporation:                 | <u>1,110,418 gallons/storage period</u>                             |
| Total required capacity:   | <u>1,429,429 gallons/storage period</u>                             |
| Total existing capacity:   | <u>6,116,955 gallons/storage period</u>                             |
| <b>Existing capacity meets estimated storage needs:</b>              | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |

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**OPERATION AND MAINTENANCE PLAN**

The goal of the Operation and Maintenance Plan is to eliminate discharges of waste or storm water to surface waters from the production area and the protection of underlying soils and ground water.

**A. POND MAINTENANCE**

**i. FREEBOARD MONITORING**

1. Freeboard will be monitored monthly from June 1 through September 1 (dry season) and weekly from October 1 through May 31 (wet season). The results will be recorded on a Dairy Production Area Visual Inspection Form.
2. Freeboard will be monitored during and after each significant storm event and the results recorded on a Production Area Significant Storm Event Inspection Form.
3. Ponds will be photographed on the first day of each month. Pond photos will be labeled and maintained with the dairy's monitoring records.

**ii. PREPARATION FOR MAINTAINING WINTER STORAGE CAPACITY**

1. The retention pond(s) will begin to be lowered to the minimum operating level on or before a designated date each year.
2. The minimum operating level will include the necessary storage volume as identified in Section II.A in Attachment B of the General Order.

**iii. OTHER POND MONITORING**

1. At the time of each monitoring for freeboard, the pond(s) will be inspected for evidence of excessive odors, mosquito breeding, algae, or equipment damage; and issues with berm integrity, including cracking, slumping, erosion, excess vegetation, animal burrows, and seepage. Any issues identified and corrective actions performed will be recorded on a Dairy Production Area Visual Inspection Form - Other Pond Monitoring.
2. At the time of each monitoring during and after each significant storm event, the ponds will be inspected for evidence of any discharge and issues with berm integrity, including cracking, slumping, erosion, excess vegetation, animal burrows, and seepage. Any issues identified and corrective actions performed will be recorded on a Production Area Significant Storm Event Inspection Form.

**iv. SOLIDS REMOVAL PROCEDURES**

1. The average thickness of the solids accumulated on the bottom of the pond(s) will be measured on the designated interval using the owner, operator, and/or designer specified procedure.
2. Once solids/sludge on the bottom of the pond(s) reach the owner, operator, and/or designer specified critical thickness, solids/sludge will be removed so that adequate capacity is maintained.
3. When necessary, solids/sludge will be removed using the owner, operator, and/or designer specified methods for protecting any pond liner.

**OPERATIONS AND MAINTENANCE PLAN FOR POND:** New Pond

Dry season freeboard monitoring will occur on the 1st of each month.

Wet season freeboard monitoring will occur every Wednesday of each week.

Process wastewater pond contents will be lowered to the minimum operating level (elevation) of 2.0 feet above the pond invert beginning in April of each year.

Sludge accumulation will be measured annually.

The following method will be used to measure solids/sludge accumulation:

Solids/ Sludge thickness will be measured by dairy operator when pond depth is at minimum level using visual inspection.

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When solids/sludge accumulate to a thickness of 2.0 feet, the following method will be used to maintain adequate storage capacity while protecting any pond liner:

Solids/ Sludge will be removed according to instructions given by dairy operator to designated personnel.

**OPERATIONS AND MAINTENANCE PLAN FOR POND:** Small Pond

Dry season freeboard monitoring will occur on the 1st of each month.

Wet season freeboard monitoring will occur every Wednesday of each week.

Process wastewater pond contents will be lowered to the minimum operating level (elevation) of 2.0 feet above the pond invert beginning in April of each year.

Sludge accumulation will be measured annually.

The following method will be used to measure solids/sludge accumulation:

Solids/ Sludge thickness will be measured by dairy operator when pond depth is at minimum level using visual inspection.

When solids/sludge accumulate to a thickness of 2.0 feet, the following method will be used to maintain adequate storage capacity while protecting any pond liner:

Solids/ Sludge will be removed according to instructions given by dairy operator to designated personnel.

**OPERATIONS AND MAINTENANCE PLAN FOR POND:** Solid Settling Basin

Dry season freeboard monitoring will occur on the 1st of each month.

Wet season freeboard monitoring will occur every Wednesday of each week.

Process wastewater pond contents will be lowered to the minimum operating level (elevation) of 1.0 feet above the pond invert beginning in April of each year.

Sludge accumulation will be measured annually.

The following method will be used to measure solids/sludge accumulation:

Solids/ Sludge thickness will be measured by dairy operator when pond depth is at minimum level using visual inspections

When solids/sludge accumulate to a thickness of 2.0 feet, the following method will be used to maintain adequate storage capacity while protecting any pond liner:

Solids/ Sludge will be removed according to instructions given by dairy operator to designated personnel.

**B. RAINFALL COLLECTION SYSTEM MAINTENANCE**

- i. Annually, rainfall collection systems will be assessed to ensure:
  1. Conveyances are free of debris and operating within designer/manufacturer specifications.
  2. Components are properly fastened according to designer/manufacturer specifications.
  3. All downspouts and related infrastructure are connected to conveyances that divert water away from manured areas.
  4. Water from the rainfall collection system(s) is diverted to an appropriate destination.

| <b><i>Buildings with rooftop rainfall collection systems</i></b> | <b>Quantity</b> | <b>Surface Area (sq. ft.)</b> |
|--|-----------------|-------------------------------|
| Barn   | 1               | 7,200                         |
| Calf Barn  | 1               | 3,948                         |
| Commodity Barn   | 1               | 5,000                         |

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|   |                 |                               |
|---|-----------------|-------------------------------|
| Freestall   | 2               | 85,000                        |
| Heifer Barn   | 1               | 6,000                         |
| Hospital Barn   | 1               | 880                           |
| Shade Barn  | 1               | 39,000                        |
| <b><i>Buildings without rooftop rainfall collection systems</i></b> | <b>Quantity</b> | <b>Surface Area (sq. ft.)</b> |
| Milk Barn   | 1               | 2,310                         |
| Shop  | 1               | 1,215                         |

Assessment for buildings with rooftop rainfall collection systems will occur on or before: 1st of October

Assessment for other rainfall collections systems will occur on or before: 1st of November

Description of how rainfall collection systems will be assessed:

Rainfall collection systems will be assessed by the Dairy Operator to determine measures needed to ensure proper functioning.

#### C. CORRAL MAINTENANCE

- i. Monthly from June 1st through September 30th (dry season) and weekly from October 1st through May 31st (wet season), the perimeter of the corrals and pens will be assessed to ensure that runoff controls such as berms are functioning correctly, and that all water that contacts waste is collected and diverted into the wastewater retention pond(s). Any issues identified and corrective actions performed will be recorded on a Dairy Production Area Visual Inspection Form - Corrals.
- ii. The corrals will be assessed by the designated date to determine:
  1. Whether manure needs to be removed from the corrals based on the owner, operator, and/or designer specified conditions.
  2. Whether there are depressions within the corrals that should be filled/groomed to prevent ponding.
- iii. Removal of manure and/or regrading, when necessary, will be completed on or before the designated month/day of each year.

Day of the month dry season assessment will occur: 1st of each month

Day of the week wet season assessment will occur: Monday

Solid manure removal and regrading assessment will occur on or before: 1st of October

Conditions requiring manure removal and/or regrading:

The Dairy Operator will determine the corral conditions for manure removal and regrading.

Solid manure removal and/or regrading will occur on or before: 1st of November

#### D. FEED STORAGE AREA MAINTENANCE

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- i. During the dry season and prior to the wet season, the perimeter of storage areas will be assessed to ensure all runoff and runoff controls such as berms are functioning correctly and runoff and leachate from the areas are collected and diverted into the wastewater pond(s). Any issues identified and corrective actions performed will be recorded on a Dairy Production Area Visual Inspection Form - Manure and Feed Storage Areas.
- ii. During the wet season, feed storage area(s) will be assessed to determine if there are depressions within any feed storage area that should be filled or repaired to prevent ponding.
- iii. Any necessary regrading/resurfacing and berm/conveyance maintenance will be completed on an annual basis.

Day of the month dry season assessment will occur: 1st of each month

Day of the week wet season assessment will occur: Monday

Regrading/resurfacing and berm maintenance assessment will occur on or before: 1st of October

Regrading/resurfacing and berm maintenance completion will occur on or before: 1st of November

**E. SOLID MANURE STORAGE AREA MAINTENANCE**

- i. During the dry season and prior to the wet season, the perimeter of manure storage areas will be assessed to ensure all runoff and runoff controls such as berms are functioning correctly and runoff and leachate from the areas are collected and diverted into the wastewater pond(s). Any issues identified and corrective actions performed will be recorded on a Dairy Production Area Visual Inspection Form - Manure and Feed Storage Areas.
- ii. During the wet season, manure storage area(s) will be assessed to determine if there are depressions within any manure storage area that should be filled to prevent ponding.
- iii. Any necessary regrading/resurfacing and berm/conveyance maintenance will be completed on an annual basis.

Day of the month dry season assessment will occur: 1st of each month

Day of the month wet season assessment will occur: Monday

Regrading/resurfacing and berm maintenance assessment will occur on or before: 1st of October

Regrading/resurfacing and berm maintenance completion will occur on or before: 1st of November

**F. ANIMAL HOUSING AND FLUSH WATER CONVEYANCE SYSTEM MAINTENANCE**

- i. A map will be attached that identifies critical points for monitoring the animal housing and flush water conveyance system to verify that water is being managed as identified in this Waste Management Plan. These points will be maintained at owner, operator, and/or designer specified intervals.

Animal housing area assessment will occur on or before: 1st of October

Animal housing drainage system maintenance will occur on or before: 1st of October

Animal housing area drainage system assessment and maintenance methods:

Animal housing drainage systems will be cleaned and repaired by a person designated to do so by the Dairy Operator.

**G. MORTALITY MANAGEMENT**

- i. Dead animals will be stored, removed, and disposed of properly.

Rendering company or landfill name: Sisk Tallow

Rendering company or landfill telephone number: (209) 667-1451

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**H. ANIMALS AND SURFACE WATER MANAGEMENT**

- i. A system will be in place, monitored, and maintained to prevent animals from entering any surface waters when a stream or other surface water crosses or adjoins the corral(s).

Does a stream or any other surface water cross or adjoin the corrals?      [ ] Yes    [X] No

**I. MONITORING SALT IN ANIMAL RATIONS**

- i. The combined quantity of minerals as salt in animal drinking water and feed rations will be reviewed by a qualified nutritionist on a routine basis to verify that minerals are limited to the amount required to maintain animal health and optimum production . As feed rations change, mineral content may change.

Assessment interval: Annually

**J. CHEMICAL MANAGEMENT**

- i. Chemicals and other contaminants handled at the facility will not be disposed of in any manure or process wastewater, storm water storage or treatment system unless specifically designed to treat such chemicals and other contaminants.

| Chemical Name    | Quantity | Units   | Frequency | Usage Area | Destination (Used Chemical / Container)            | Disposal Company |       | Collection Frequency |
|------------------|----------|---------|-----------|------------|--|------------------|-------|----------------------|
|                  |          |         |           |            |  | Name             | Phone |                      |
| Pipeline Express | 720      | gallons | year      | Milk Barn  | Container is recycled and refilled by the company. |                  |       |                      |



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**REQUIRED ATTACHMENTS**

The following list, based upon user selections and data entries, describes the minimum required attachments that must be submitted with the Waste Management Plan for the reporting schedule of 'July 1, 2010'.

**A. SITE MAP(S)**

Provide a site map (or maps) of appropriate scale to show property boundaries and the location of the features of the production area including the following in sufficient detail: structures used for animal housing, milk parlor, and other buildings; corrals and ponds; solids separation facilities (settling basins or mechanical separators); other areas where animal wastes are deposited or stored; feed storage areas; drainage flow directions and nearby surface waters; all water supply wells (domestic, irrigation, and barn wells) and groundwater monitoring wells.

Production area map reference number: Production Area Map

Provide a site map (or maps) of appropriate scale to show property boundaries and the location of the features of all land application areas (land under the Discharger's control, whether it is owned, rented, or leased, to which manure or process wastewater from the production area is or may be applied for nutrient recycling) including the following in sufficient detail: a field identification system (Assessor's Parcel Number; field by name or number; total acreage of each field; crops grown; indication if each field is owned, leased, or used pursuant to a formal agreement); indication of what type of waste is applied (solid manure only, wastewater only, or both solid manure and wastewater); drainage flow direction in each field, nearby surface waters, and storm water discharge points; tailwater and storm water drainage controls; subsurface (tile) drainage systems (including discharge points and lateral extent); irrigation supply wells and groundwater monitoring wells; sampling locations for discharges of storm water and tailwater to surface water from the field.

Application area map reference number: Land Application Map

Provide a site map (or maps) of appropriate scale to show property boundaries and the location of all cropland (land that is part of the dairy but not used for dairy waste application) including the following in sufficient detail: Assessor's Parcel Number, total acreage, crops grown, and information on who owns or leases the field. The Waste Management Plan shall indicate if such cropland is covered under the Conditional Waiver of Waste Discharge Requirements for Discharges from Irrigated Lands (Order No. R5-2006-0053 for Coalition Group or Order No. R5-2006-0054 for Individual Discharger, or updates thereto).

Non-application area map reference number: Land Application Map

Provide a site map (or maps) of appropriate scale to show property boundaries and the location of all off-property domestic wells within 600 feet of the production area or land application area(s) associated with the dairy and the location of all municipal supply wells within 1,500 feet of the production area or land application area(s) associated with the dairy.

Well area map reference number: Land Application Map

Provide a site map (or maps) of appropriate scale to show property boundaries and a vicinity map, north arrow and the date the map was prepared. The map shall be drawn on a published base map (e.g., a topographic map or aerial photo) using an appropriate scale that shows sufficient details of all facilities.

Vicinity map reference number: Vicinity Map

**B. PROCESS WASTEWATER MAP(S)**

Provide a site map (or maps) of appropriate scale to show property boundaries and the location of the features of the production area including the following in sufficient detail: process wastewater conveyance structures, discharge points, and discharge /mixing points with irrigation water supplies; pumping facilities and flow meter locations; upstream diversion structures, drainage ditches and canals, culverts, drainage controls (berms/levees, etc.), and drainage easements; and any additional components of the waste handling and storage system.

Production infrastructure system area map reference number: Production Area Map

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Provide a site map (or maps) of appropriate scale to show property boundaries and the location of the features of all land application areas (land under the Discharger's control, whether it is owned, rented, or leased, to which manure or process wastewater from the production area is or may be applied for nutrient recycling) including the following in sufficient detail: process wastewater conveyance structures, discharge points and discharge mixing points with irrigation water supplies; pumping facilities; flow meter locations; drainage ditches and canals, culverts, drainage controls (berms, levees, etc.), and drainage easements.

Land application infrastructure system area map reference number: Land Application Map

**C. EXCESS PRECIPITATION CONTINGENCY REPORT**

*There were no attachment references entered or required for this attachment section.*

**D. OPERATION AND MAINTENANCE PLAN**

Attach a map that identifies critical points for monitoring the system to verify that water is being managed as identified in this Waste Management Plan (see Attachment B, Pg B-7 V.F, V.G, and V.H for additional requirements).

Animal housing assessment map reference number: Production Area Map

**E. FLOOD PROTECTION / INUNDATION REPORT**

Provide a published flood zone map that shows the facility is outside the relevant flood zones.

Flood zone map and/or document reference number: 06099C0335E

**F. BACKFLOW PROTECTION**

Attach documentation from a trained professional (i.e. a person certified by the American Backflow Prevention Association, an inspector from a state or local governmental agency who has experience and/or training in backflow prevention, or a consultant with such experience and/or training), as specified in Required Reports and Notices H.1 of Waste Discharge Requirements General Order No. R5-2007-0035, that there are no cross-connections that would allow the backflow of wastewater into a water supply well, irrigation well, or surface water as identified on the Site Map.

Backflow documentation reference number: Backflow Document

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CERTIFICATION

**A. DAIRY FACILITY INFORMATION**

Name of dairy or business operating the dairy: Langworth Dairy

Physical address of dairy:

5306 Langworth RD

Oakdale

Stanislaus

95361

Number and Street

City

County

Zip Code

Street and nearest cross street (if no address): \_\_\_\_\_

**B. DOCUMENTATION OF QUALIFICATIONS AND PLAN DEVELOPMENT**

*I have reviewed the portion of the waste management plan that is related to storage capacity facility and design specifications in accordance with Item II, Attachment B of the Waste Discharge Requirements General Order for Existing Milk Cow Dairies - Order No. R5-2007-0035 and certify that this plan was prepared by, or under the responsible charge of, and certified by a civil engineer who is registered pursuant to California law or other person as may be permitted under the provisions of the California Business and Professions Code to assume responsible charge of such work.*

Storage capacity is:

Insufficient

- ☐ Retrofitting Plan/Schedule/Design Criteria attached in accordance with Attachment B, II.B. 1-5 and Attachment B, II. C.

Sufficient

- ☐ Certification 1 - Certified in accordance with Attachment B, II. A. 1-8. (no contingency plan)
- ☐ Certification 2 - Certified in accordance with Attachment B, II. A. 1-8, II. C. (with contingency plan attached)



CIVIL ENGINEER'S WET STAMP

Matthew Ward  
SIGNATURE OF CIVIL ENGINEER

11-30-18  
DATE

Matthew Ward

PRINT OR TYPE NAME

981 Rosburn WAY; Galt, CA 95632

MAILING ADDRESS

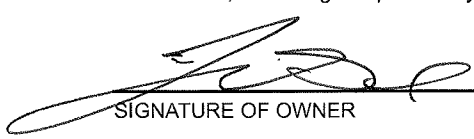
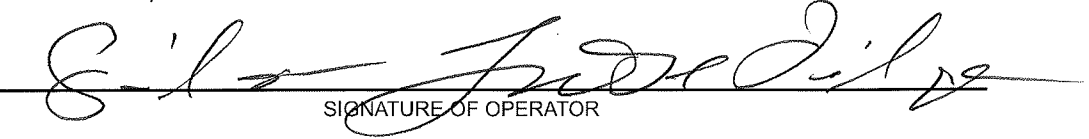
(209) 263-1382

PHONE NUMBER

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**C. OWNER AND/OR OPERATOR CERTIFICATION**

*I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*

|  |  |
|--|--|
|  |  |
| SIGNATURE OF OWNER   | SIGNATURE OF OPERATOR  |

Maria Silva

Jose Manuel Silva

PRINT OR TYPE NAME

PRINT OR TYPE NAME

12/12/18

12/12/18

DATE

DATE

**Nutrient Management Plan Report**  
General Order No. R5-2007-0035, Attachment C  
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**DAIRY FACILITY INFORMATION**

**A. NAME OF DAIRY OR BUSINESS OPERATING THE DAIRY:** Langworth Dairy

Physical address of dairy:

|                   |         |            |          |
|-------------------|---------|------------|----------|
| 5306 Langworth RD | Oakdale | Stanislaus | 95361    |
| Number and Street | City    | County     | Zip Code |

Street and nearest cross street (if no address): \_\_\_\_\_

Date facility was originally placed in operation: 01/01/1935

Regional Water Quality Control Board Basin Plan designation: San Joaquin River Basin

County Assessor Parcel Number(s) for dairy facility:

0062-0027-0003-0000

**B. OPERATOR NAME:** Silva, Jose Manuel Telephone no.: (209) 869-3348 (209) 765-8008  
Landline Cellular

|                                   |         |       |          |
|-----------------------------------|---------|-------|----------|
| P.O. Box 2153                     | Oakdale | CA    | 95361    |
| Mailing Address Number and Street | City    | State | Zip Code |

Operator should receive Regional Board correspondence (check): ☒ Yes ☐ No

**OPERATOR NAME:** Silva, Maria Telephone no.: (209) 869-3348 (209) 765-8008  
Landline Cellular

|                                   |         |       |          |
|-----------------------------------|---------|-------|----------|
| P.O. Box 2153                     | Oakdale | CA    | 95361    |
| Mailing Address Number and Street | City    | State | Zip Code |

Operator should receive Regional Board correspondence (check): ☒ Yes ☐ No

**C. LEGAL OWNER NAME:** Silva, Jose Manuel Telephone no.: (209) 869-3348 (209) 765-8008  
Landline Cellular

|                                   |         |       |          |
|-----------------------------------|---------|-------|----------|
| P.O. Box 2153                     | Oakdale | CA    | 95361    |
| Mailing Address Number and Street | City    | State | Zip Code |

Owner should receive Regional Board correspondence (check): ☒ Yes ☐ No

**LEGAL OWNER NAME:** Silva, Maria Telephone no.: (209) 869-3348 (209) 765-8008  
Landline Cellular

|                                   |         |       |          |
|-----------------------------------|---------|-------|----------|
| P.O. Box 2153                     | Oakdale | CA    | 95361    |
| Mailing Address Number and Street | City    | State | Zip Code |

Owner should receive Regional Board correspondence (check): ☒ Yes ☐ No

**D. CONTACT NAME:** Captein, Jacquie Telephone no.: (209) 748-5020 (209) 327-0992  
Landline Cellular

Title: Technical Service Provider

|                                   |        |       |          |
|-----------------------------------|--------|-------|----------|
| P.O. Box 386                      | Herald | CA    | 95638    |
| Mailing Address Number and Street | City   | State | Zip Code |

**Nutrient Management Plan Report**  
General Order No. R5-2007-0035, Attachment C  
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**AVAILABLE NUTRIENTS**

**A. HERD INFORMATION**

The milk cow dairy is currently regulated under individual Waste Discharge Requirements.

Total number of milk and dry cows combined as a baseline value in response to the Report of Waste Discharge (ROWD) request of October, 2005:

975 milk and dry cows combined (regulatory review is required for any expansion)

|                       | Milk Cows | Dry Cows | Bred Heifers<br>(15-24 mo.) | Heifers (7-14<br>mo. to breeding) | Calves<br>(4-6 mo.) | Calves<br>(0-3 mo.) |
|-----------------------|-----------|----------|-----------------------------|-----------------------------------|---------------------|---------------------|
| Present count         | 800       | 175      | 0                           | 0                                 | 0                   | 125                 |
| Maximum count         | 800       | 175      | 0                           | 0                                 | 0                   | 125                 |
| Avg live weight (lbs) | 1,400     | 1,500    | 0                           | 0                                 |                     |                     |
| Daily hours on flush  | 4         | 0        | 0                           | 0                                 | 0                   | 0                   |

Predominant milk cow breed: Holstein

Average milk production: 69 pounds per cow per day

**B. IRRIGATION SOURCES**

| Irrigation Source Name      | Type                         | Nitrogen<br>(mg/L) | Phosphorus<br>(mg/L) | Potassium<br>(mg/L) | Discharge Rate |
|-----------------------------|------------------------------|--------------------|----------------------|---------------------|----------------|
| Oakdale Irrigation District | Surface water (canal, river) | 2.48               | 0.00                 | 0.00                | 900 gpm        |

**C. NUTRIENT IMPORTS**

*No nutrient imports entered.*

**D. NUTRIENT EXPORTS**

| Nutrient Type/Name | Quantity     | Moisture | Nitrogen | Phosphorus<br>(as P2O5) | Potassium<br>(as K2O) |
|--------------------|--------------|----------|----------|-------------------------|-----------------------|
| Manure For Export  | 3,000.00 ton | 41.9%    | 2.810%   | 0.586%                  | 2.770%                |
| Manure Solids      | 3,380.00 ton | 48.2%    | 2.420%   | 0.905%                  | 1.840%                |

Total nitrogen exported: 182,697.26 lbs

Total phosphorus exported: 22,775.64 lbs

Total potassium exported: 133,624.28 lbs

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**E. STORAGE PERIOD**

Storage period is the maximum period of time anticipated between land application of process wastewater (from storage ponds/lagoons) to croplands. A qualified agronomist and civil engineer should collaborate and collectively consider predominant soil types, soil infiltration rates, maximum depth, available water, field capacity, permanent wilting point, allowable depletion, crop water use, evapotranspiration, precipitation, irrigation system capacity, water delivery constraints, crop nutrient requirements, soil nutrient adsorption/desorption, rooting depth, nutrient accumulation/availability for current and future crop needs, facility wide process wastewater storage capacity and other factors as deemed necessary across all croplands where process wastewater is applied in selecting a storage period. In many cases conflicts will arise between crop water demands, crop nutrient demands and insufficient process wastewater storage capacity. Process wastewater may not be the best choice as a source of either water and/or nutrients to meet crop demands throughout the year. Groundwater and surface water vulnerability has been considered.

The storage period selected in this Nutrient Management Plan is consistent with the storage period selected in the Waste Management Plan.

Storage period: 120 days

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**APPLICATION AREA**

**A. ASSESSOR PARCEL NUMBER:** 0062-0027-0003-0000

Legal owner of parcel: Owned by Dairy

**B. FIELD NAME:** Field 2

Cropable acres: 51

Predominant soil type: Sandy loam

Do irrigation system head-to-head flow conditions exist on the field? ☒ Yes ☐ No

Can fresh water for irrigation purposes be delivered to the field year round? ☐ Yes ☒ No

Can process wastewater be delivered to the field at agronomic rates and times? ☒ Yes ☐ No

Tailwater management method: Returned to retention pond

**Crops grown and rotation:**

| Crop Type                  | Plant Date     | Harvest Date   | Acres Planted |
|----------------------------|----------------|----------------|---------------|
| Forage Mix                 | Early November | Early May      | 51            |
| Sorghum-Sudangrass, forage | Middle May     | Middle October | 51            |

**C. LAND APPLICATION AREA FIELDS AND PARCELS**

| Field name                   | Cropable acres | Total harvests | Parcel number      |
|------------------------------|----------------|----------------|--------------------|
| Field 2                      | 51             | 3              | 0062-0027-00030000 |
| Land application area totals | 51             | 3              |                    |



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**NUTRIENT BUDGET**

**A. NUTRIENT BUDGET FOR CROP:** Field 2 / Other

| Activity / Event                                   | # of Events | N (lbs/acre)<br>% avail. | P (lbs/acre)<br>% avail. | K (lbs/acre)<br>% avail. | Total N (lbs/acre)   |
|--|-------------|--------------------------|--------------------------|--------------------------|----------------------|
| Existing soil nutrient content                     | 1           | 0.0                      | 67.5                     | 0.0                      | 0.0                  |
| <i>Nutrient source:</i> Soil                       |             | 50%                      | 50%                      | 80%                      |                      |
| <i>Application method:</i> Lab results             |             |                          |                          |                          |                      |
| Non-irrigation liquid nutrient application         | 2           | 66.0                     | 2.1                      | 76.5                     | 132.0                |
| <i>Nutrient source:</i> Retention pond (lagoon)    |             | 60%                      | 80%                      | 80%                      |                      |
| <i>Application method:</i> Pipeline                |             |                          |                          |                          |                      |
| Pre-irrigation prior to planting (with fertilizer) | 1           | 152.8                    | 6.3                      | 193.1                    | 155.4                |
| <i>Nutrient source:</i> Retention pond (lagoon)    |             | 60%                      | 80%                      | 80%                      |                      |
| <i>Application method:</i> Pipeline                |             |                          |                          |                          |                      |
| <b>Irrigation Source</b>                           |             | <b>N (lbs/acre)</b>      | <b>P (lbs/acre)</b>      | <b>K (lbs/acre)</b>      | <b>Runtime (hrs)</b> |
| Oakdale Irrigation District                        | 2.6         | 0.0                      | 0.0                      | 118.0                    |                      |
|  | 2.6         | 0.0                      | 0.0                      |                          |                      |

|                                 | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) |
|---------------------------------|--------------------|--------------------|--------------------|
| Irrigation sources              | 2.6                | 0.0                | 0.0                |
| Existing soil nutrient content  | 0.0                | 67.5               | 0.0                |
| Plowdown credit                 | 0.0                | 0.0                | 0.0                |
| Commercial fertilizer           | 0.0                | 0.0                | 0.0                |
| Dry manure                      | 0.0                | 0.0                | 0.0                |
| Liquid manure                   | 284.8              | 10.5               | 346.1              |
| Other                           | 0.0                | 0.0                | 0.0                |
| Atmospheric deposition          | 4.7                |                    |                    |
| Nutrients applied               | 292.1              | 78.0               | 346.1              |
| Potential crop nutrient removal | 208.0              | 24.0               | 163.2              |
| Nutrient balance                | 84.1               | 54.0               | 182.9              |
| Applied to removal ratio        | 1.40               | 3.25               | 2.12               |

Fresh water applied: 0.38 feet Total harvests: 1

**NUTRIENT BUDGET FOR CROP:** Field 2 / Sorghum-Sudangrass, forage

| Activity / Event                                | # of Events | N (lbs/acre)<br>% avail. | P (lbs/acre)<br>% avail. | K (lbs/acre)<br>% avail. | Total N (lbs/acre) |
|---|-------------|--------------------------|--------------------------|--------------------------|--------------------|
| Existing soil nutrient content                  | 1           | 0.0                      | 96.0                     | 0.0                      | 0.0                |
| <i>Nutrient source:</i> Soil                    |             | 50%                      | 50%                      | 80%                      |                    |
| <i>Application method:</i> Lab results          |             |                          |                          |                          |                    |
| Non-irrigation liquid nutrient application      | 1           | 150.0                    | 5.1                      | 191.3                    | 150.0              |
| <i>Nutrient source:</i> Retention pond (lagoon) |             | 60%                      | 80%                      | 80%                      |                    |
| <i>Application method:</i> Pipeline             |             |                          |                          |                          |                    |

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**NUTRIENT BUDGET FOR CROP (CONTINUED):** Field 2 / Sorghum-Sudangrass, forage

| Activity / Event                                 | # of Events  | N (lbs/acre)<br>% avail. | P (lbs/acre)<br>% avail. | K (lbs/acre)<br>% avail. | Total N (lbs/acre) |
|--|--------------|--------------------------|--------------------------|--------------------------|--------------------|
| Pre-irrigation prior to planting (no fertilizer) | 1            | 0.0                      | 0.0                      | 0.0                      | 2.6                |
| Nutrient source: Water only                      |              | 0%                       | 0%                       | 0%                       |                    |
| Application method: Surface                      |              |                          |                          |                          |                    |
| Irrigation Source                                | N (lbs/acre) | P (lbs/acre)             | K (lbs/acre)             | Runtime (hrs)            |                    |
| Oakdale Irrigation District                      | 2.6          | 0.0                      | 0.0                      | 120.0                    |                    |
|  | 2.6          | 0.0                      | 0.0                      |                          |                    |
| In season irrigation (no fertilizer)             | 5            | 0.0                      | 0.0                      | 0.0                      | 12.1               |
| Nutrient source: Water only                      |              | 0%                       | 0%                       | 0%                       |                    |
| Application method: Surface                      |              |                          |                          |                          |                    |
| Irrigation Source                                | N (lbs/acre) | P (lbs/acre)             | K (lbs/acre)             | Runtime (hrs)            |                    |
| Oakdale Irrigation District                      | 2.4          | 0.0                      | 0.0                      | 110.0                    |                    |
|  | 2.4          | 0.0                      | 0.0                      |                          |                    |
| In season irrigation (with fertilizer)           | 2            | 85.0                     | 3.2                      | 114.8                    | 174.8              |
| Nutrient source: Retention pond (lagoon)         |              | 60%                      | 80%                      | 80%                      |                    |
| Application method: Pipeline                     |              |                          |                          |                          |                    |
| Irrigation Source                                | N (lbs/acre) | P (lbs/acre)             | K (lbs/acre)             | Runtime (hrs)            |                    |
| Oakdale Irrigation District                      | 2.4          | 0.0                      | 0.0                      | 110.0                    |                    |
|  | 2.4          | 0.0                      | 0.0                      |                          |                    |

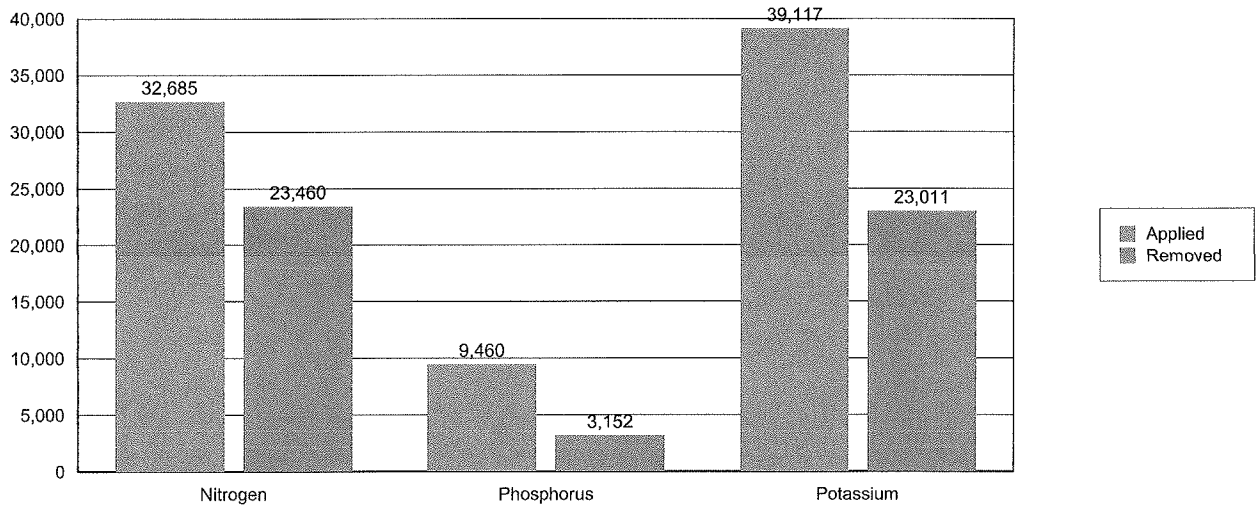
|                                 | Total N (lbs/acre) | Total P (lbs/acre) | Total K (lbs/acre) |
|---------------------------------|--------------------|--------------------|--------------------|
| Irrigation sources              | 19.5               | 0.0                | 0.0                |
| Existing soil nutrient content  | 0.0                | 96.0               | 0.0                |
| Plowdown credit                 | 0.0                | 0.0                | 0.0                |
| Commercial fertilizer           | 0.0                | 0.0                | 0.0                |
| Dry manure                      | 0.0                | 0.0                | 0.0                |
| Liquid manure                   | 320.0              | 11.5               | 420.9              |
| Other                           | 0.0                | 0.0                | 0.0                |
| Atmospheric deposition          | 9.3                |                    |                    |
| Nutrients applied               | 348.8              | 107.5              | 420.9              |
| Potential crop nutrient removal | 252.0              | 37.8               | 288.0              |
| Nutrient balance                | 96.8               | 69.7               | 132.9              |
| Applied to removal ratio        | 1.38               | 2.84               | 1.46               |

Fresh water applied: 2.89 feet Total harvests: 2

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**NUTRIENT APPLICATIONS, POTENTIAL REMOVAL, AND BALANCE**

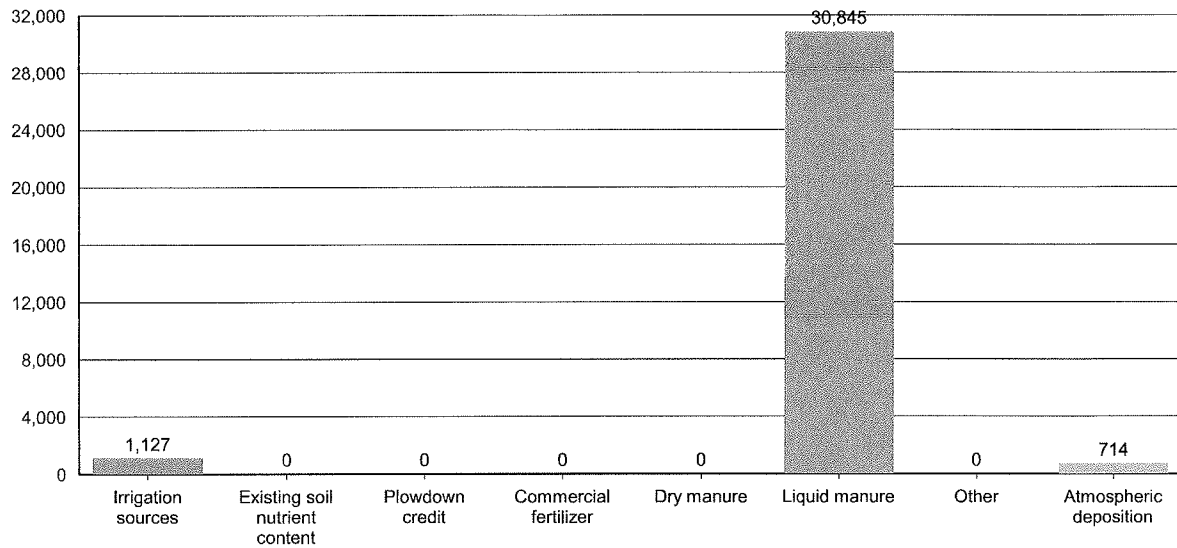
**A. POUNDS OF NUTRIENT APPLIED VS. CROP REMOVAL POTENTIAL**



|                                 | Total N<br>(lbs) | Total P<br>(lbs) | Total K<br>(lbs) |
|---------------------------------|------------------|------------------|------------------|
| Irrigation sources              | 1,126.5          | 0.0              | 0.0              |
| Existing soil nutrient content  | 0.0              | 8,338.5          | 0.0              |
| Plowdown credit                 | 0.0              | 0.0              | 0.0              |
| Commercial fertilizer           | 0.0              | 0.0              | 0.0              |
| Dry manure                      | 0.0              | 0.0              | 0.0              |
| Liquid manure                   | 30,844.8         | 1,122.0          | 39,117.0         |
| Other                           | 0.0              | 0.0              | 0.0              |
| Atmospheric deposition          | 714.0            |                  |                  |
| Nutrients applied to all crops  | 32,685.3         | 9,460.5          | 39,117.0         |
| Potential crop nutrient removal | 23,460.0         | 3,151.8          | 23,011.2         |
| Nutrient balance                | 9,225.3          | 6,308.7          | 16,105.8         |
| Applied to removal ratio        | 1.39             | 3.00             | 1.70             |

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**B. POUNDS OF NITROGEN APPLIED BY NUTRIENT SOURCE**



|                                 | Total N<br>(lbs) | Total P<br>(lbs) | Total K<br>(lbs) |
|---------------------------------|------------------|------------------|------------------|
| Irrigation sources              | 1,126.5          | 0.0              | 0.0              |
| Existing soil nutrient content  | 0.0              | 8,338.5          | 0.0              |
| Plowdown credit                 | 0.0              | 0.0              | 0.0              |
| Commercial fertilizer           | 0.0              | 0.0              | 0.0              |
| Dry manure                      | 0.0              | 0.0              | 0.0              |
| Liquid manure                   | 30,844.8         | 1,122.0          | 39,117.0         |
| Other                           | 0.0              | 0.0              | 0.0              |
| Atmospheric deposition          | 714.0            |                  |                  |
| Nutrients applied to all crops  | 32,685.3         | 9,460.5          | 39,117.0         |
| Potential crop nutrient removal | 23,460.0         | 3,151.8          | 23,011.2         |
| Nutrient balance                | 9,225.3          | 6,308.7          | 16,105.8         |
| Applied to removal ratio        | 1.39             | 3.00             | 1.70             |

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**NUTRIENT BALANCE**

**A. WHOLE FARM BALANCE**

|   | Total N<br>(lbs) | Total P<br>(lbs) | Total K<br>(lbs) |
|---|------------------|------------------|------------------|
| Nutrients in storage from herd*                               |                  |                  |                  |
| Daily gross   | 836.7            | 136.6            | 418.3            |
| Annual gross  | 305,401.5        | 49,864.0         | 152,681.8        |
| Net to pond storage after ammonia losses (30% loss applied)   | 31,158.9         | 7,532.8          | 25,447.0         |
| Net to drylot storage after ammonia losses (30% loss applied) | 182,622.1        | 42,331.2         | 143,294.8        |
| Net in storage (30% loss applied)                             | 213,781.1        | 49,864.0         | 168,741.8        |
| Irrigation sources  | 1,126.5          | 0.0              | 0.0              |
| Atmospheric deposition  | 714.0            |                  |                  |
| Imports   | 0.0              | 0.0              | 0.0              |
| Exports   | 182,697.3        | 22,775.6         | 133,624.3        |
| Potential crop nutrient removal                               | 23,460.0         | 3,151.8          | 23,011.2         |
| Nutrient balance  | 9,464.3          | 23,936.6         | 12,106.3         |
| Nutrient balance ratio  | 1.40             | 8.59             | 1.53             |

\* Potassium excretion from milk cows and dry cows only.

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**SAMPLING AND ANALYSIS PLAN**

**A. SAMPLING AND ANALYSIS PLAN**

*No sampling and analysis plan entered. An alternative sampling and analysis plan must be attached to the Nutrient Management Plan.*

**NUTRIENT MANAGEMENT PLAN REVIEW**

**A. NUTRIENT MANAGEMENT PLAN REVIEW**

|                                    |                         |   |
|------------------------------------|-------------------------|---|
| Person who created the NMP:        | <u>Captein, Jacquie</u> | <i>See above for contact information.</i> |
| Date the NMP was drafted:          | <u>10/31/2018</u>       |   |
| Person who approved the final NMP: | <u>Captein, Jacquie</u> | <i>See above for contact information.</i> |
| Date of NMP implementation:        | <u>10/31/2018</u>       |   |

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**ATTACHED MAP AND DOCUMENTATION REFERENCES**

The following list, based upon user selections and data entries, describes the minimum required attachments that must be submitted with the Nutrient Management Plan for the reporting schedule of 'July 1, 2009'.

**A. PRELIMINARY DAIRY FACILITY ASSESSMENT**

The NMP will include the initial Preliminary Dairy Facility Assessment (Attachment A) and the annual updates as required by Monitoring and Reporting Program No. R5-2007-0035. Copies of these assessments shall be maintained for 10 years.

**B. LAND AREA MAP(S)**

Identify each land application area (under the Discharger's control, whether it is owned, rented, or leased, to which manure or process wastewater from the production area is or may be applied for nutrient recycling) on a single published base map

1. A field identification system (Assessor's Parcel Number; land application area; crops grown); indication if each land application is owned, rented, or leased by the Discharger; indication of what type of waste is applied (solid manure only, wastewater only, or both solid manure and wastewater); drainage flow direction in each field, nearby surface waters, and storm water discharge points; tailwater and storm water drainage controls; subsurface (tile) drainage systems (including discharge points and lateral extent); irrigation supply wells and groundwater monitoring wells; sampling locations for discharges of storm water and tailwater to surface water from the field.
2. Process wastewater conveyance structures, discharge points and discharge mixing points with irrigation water supplies; pumping facilities; flow meter locations; drainage ditches and canals, culverts, draining controls (berms, levees, etc.), and drainage easements.

Application area map reference number: 2

Identify each field under control of the Discharger and within five miles of the dairy where neither process wastewater nor manure is applied. Each field shall be identified on a single published base map at an appropriate scale by the following:

1. Assessor's Parcel Number.
2. Total acreage.
3. Information on who owns or leases the field

Non-application area map reference number: 2

Setbacks, Buffers, and Other Alternatives to Protect Surface Water (see Technical Standard VII):

1. Identify all potential surface waters or conduits to surface water that are within 100 feet of any land application area.
2. For each land application area that is within 100 feet of a surface water or a conduit to surface water, identify the setback, vegetated buffer, or other alternative practice that will be implemented to protect surface water ( Technical Standard VII).

Setbacks and buffers map reference number: Table 4-1

**C. PROCESS WASTEWATER WRITTEN AGREEMENTS**

Provide copies of written agreements with third parties that receive process wastewater for their own use from the Discharger's dairy (Technical Standards V.A.1 and V.A.3).



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**SAMPLING AND ANALYSIS PLAN CERTIFICATION**

**A. DAIRY FACILITY INFORMATION**

Name of dairy or business operating the dairy: Langworth Dairy

Physical address of dairy:

5306 Langworth RD

Oakdale

Stanislaus

95361

Physical Address Number and Street

City

County

Zip Code

Street and nearest cross street (if no address): \_\_\_\_\_

**B. DOCUMENTATION OF QUALIFICATIONS AND PLAN DEVELOPMENT**

*I certify that I meet the requirements as a certified specialist in developing nutrient management plans as described in Attachment C of Waste Discharge Requirements General Order No. R5-2007-0035 and that I prepared the Sampling and Analysis plan.*

Technical Service Provider #11-7089

TITLE/QUALIFICATIONS OF CERTIFIED NUTRIENT MANAGEMENT SPECIALIST

Jacquie Captein

SIGNATURE OF TRAINED PROFESSIONAL

12/11/18  
DATE

Jacquie Captein

PRINT OR TYPE NAME

P.O. Box 386; Herald, CA 95638

MAILING ADDRESS

(209) 748-5020

PHONE NUMBER

**C. OWNER AND/OR OPERATOR CERTIFICATION**

*I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*

Maria Silva

SIGNATURE OF OWNER OF FACILITY

Maria Silva

PRINT OR TYPE NAME

12/12/18

DATE

Jose Manuel Silva

SIGNATURE OF OPERATOR OF FACILITY

Jose Manuel Silva

PRINT OR TYPE NAME

12/12/18

DATE

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**NUTRIENT BUDGET CERTIFICATION**

**A. DAIRY FACILITY INFORMATION**

Name of dairy or business operating the dairy: Langworth Dairy

Physical address of dairy:

5306 Langworth RD

Oakdale

Stanislaus

95361

Number and Street

City

County

Zip Code

Street and nearest cross street (if no address): \_\_\_\_\_

**B. DOCUMENTATION OF QUALIFICATIONS AND PLAN DEVELOPMENT**

*I certify that I meet the requirements as a certified specialist in developing nutrient management plans as described in Attachment C of Waste Discharge Requirements General Order No. R5-2007-0035 and that I prepared the Nutrient Budget plan.*

Technical Service Provider # 11-7089

TITLE/QUALIFICATIONS OF CERTIFIED NUTRIENT MANAGEMENT SPECIALIST

Jacquie Captein

SIGNATURE OF TRAINED PROFESSIONAL

12/11/18

DATE

Jacquie Captein

PRINT OR TYPE NAME

P.O. Box 386; Herald, CA 95638

MAILING ADDRESS

(209) 748-5020

PHONE NUMBER

**C. OWNER AND/OR OPERATOR CERTIFICATION**

*I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*

Maria Silva

SIGNATURE OF OWNER OF FACILITY

Maria Silva

PRINT OR TYPE NAME

12/12/18

DATE

Jose Manuel Silva

SIGNATURE OF OPERATOR OF FACILITY

Jose Manuel Silva

PRINT OR TYPE NAME

12/12/18

DATE

**Nutrient Management Plan Report**  
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**STATEMENTS OF COMPLETION**

Waste Discharge Requirements General Order No. R5-2007-0035 for Existing Milk Cow Dairies (General Order) requires owners and operators of existing milk cow dairies (Dischargers) to develop and implement a Nutrient Management Plan for their land application areas (land under control of the Discharger, whether it is owned, rented, or leased, to which manure or process wastewater from the production area is or may be applied for nutrient cycling). The Discharger is required to maintain the NMP at the dairy, make the NMP available to Central Valley Water Board staff during their inspections, and submit the NMP to the Executive Officer upon request.

The General Order requires the Discharger to submit two Statements of Completion during development of the NMP. The Discharger may use this form to comply with the General Order requirement to submit one or both of these Statements of Completion. Parts A and E must be completed for each Statement of Completion. Parts B, C and D are to be completed for the Statements of Completion due by 1 July 2008, 31 December 2008 and 1 July 2009, respectively. Both the owner and the operator of the dairy must sign this form in Part E below.

**A. DAIRY FACILITY INFORMATION**

Name of dairy or business operating the dairy: Langworth Dairy

|                          |                |                   |              |
|--------------------------|----------------|-------------------|--------------|
| <u>5306 Langworth RD</u> | <u>Oakdale</u> | <u>Stanislaus</u> | <u>95361</u> |
| Number and Street        | City           | County            | Zip Code     |

Street and nearest cross street (if no address): \_\_\_\_\_

|  |                                      |                       |
|--|--------------------------------------|-----------------------|
| Operator name: <u>Silva, Jose Manuel</u> | Telephone no.: <u>(209) 869-3348</u> | <u>(209) 765-8008</u> |
|  | Landline                             | Cellular              |

|                                   |                |           |              |
|-----------------------------------|----------------|-----------|--------------|
| <u>P.O. Box 2153</u>              | <u>Oakdale</u> | <u>CA</u> | <u>95361</u> |
| Mailing Address Number and Street | City           | State     | Zip Code     |

|                                       |                                      |                       |
|---------------------------------------|--------------------------------------|-----------------------|
| Legal owner name: <u>Silva, Maria</u> | Telephone no.: <u>(209) 869-3348</u> | <u>(209) 765-8008</u> |
|                                       | Landline                             | Cellular              |

|                                   |                |           |              |
|-----------------------------------|----------------|-----------|--------------|
| <u>P.O. Box 2153</u>              | <u>Oakdale</u> | <u>CA</u> | <u>95361</u> |
| Mailing Address Number and Street | City           | State     | Zip Code     |

**Nutrient Management Plan Report**  
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**B. STATEMENT OF COMPLETION DUE 1 JULY 2008**

I have completed the following items of the Nutrient Management Plan (check the boxes of completed sections), which are due 1 July 2008:

- ☐ **Item I.A.1 Land Application Information**  
Identification of land used for manure application and needed information on a facility map.
- ☐ **Item I.B Land Application Information**  
Information list for information provided on map above.
- ☐ **Item I.C Land Application Information**  
Copies of written third-party process wastewater agreements.
- ☐ **Item I.D Land Application Information**  
Identification of fields under control of the discharger within five miles of the dairy where neither process wastewater nor manure is applied.
- ☐ **Item II Sampling and Analysis Plan**
- ☐ **Item IV Setbacks, Buffers, and Other Alternatives to Protect Surface Water**  
Identification of all potential surface waters or conduits to surface waters within 100 feet of land application areas and appropriate protection.
- ☐ **Item VI Record-Keeping Requirements**  
Identification of monitoring records that will be maintained as required in the production and land application areas.

Has Item II (Sampling and Analysis Plan) of the Nutrient Management Plan been certified by a Certified Nutrient Management Specialist as required in the General Order?

☐ Yes      ☐ No

**C. STATEMENT OF COMPLETION DUE 31 DECEMBER 2008**

I have completed the following items of the Nutrient Management Plan (check the boxes of completed sections), which are due 31 December 2008:

- ☐ **Item V Field Risk Assessment**  
Evaluation of the effectiveness of management practices used to control the discharge of waste constituents from land application areas by assessing the water quality monitoring results of discharges of manure, process wastewater, tailwater, subsurface (tile) drainage, or storm water from the land application areas.

**D. STATEMENT OF COMPLETION DUE 1 JULY 2009**

I have completed the following items of the Nutrient Management Plan (check the boxes of completed sections), which are due 1 July 2009:

- ☐ **Item I.A.2 Land Application Area Information**  
Identification of process wastewater conveyance, mixing and drainage information for each land application area on a facility map.
- ☐ **Item III Nutrient Budget**  
Established planned rates of nutrient applications by crop based on nutrient monitoring results for each land application area.



Has Item III (Nutrient Budget) of the Nutrient Management Plan been certified by a Certified Nutrient Management Specialist as required in the General Order?

☐ Yes      ☐ No

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July 1, 2009 deadline

**E. CERTIFICATION STATEMENT**

*I certify under penalty of law that I have completed the items of the Nutrient Management Plan that are checked in Parts B, C and/or D above for the dairy identified in Part A above and that the appropriate certified nutrient management specialist has certified the items requiring such certification as noted in part B and/or D above and that I have personally examined and am familiar with the information submitted in Parts A, B, C and D of this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*

SIGNATURE OF OWNER OF FACILITY

SIGNATURE OF OPERATOR OF FACILITY

Maria Silva

Jose Manuel Silva

PRINT OR TYPE NAME

PRINT OR TYPE NAME

DATE

DATE