



## CEQA Referral Initial Study And Notice of Intent to Adopt a Negative Declaration

**Date:** April 9, 2020

**To:** Distribution List (See Attachment A)

**From:** Kristen Anaya, Assistant Planner, Planning and Community Development

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

**Comment Period:** April 9, 2020 – May 12, 2020

**Respond By:** May 12, 2020

**Public Hearing Date:** Not yet scheduled. A separate notice will be sent to you when a hearing is scheduled.

You may have previously received an Early Consultation Notice regarding this project, and your comments, if provided, were incorporated into the Initial Study. Based on all comments received, Stanislaus County anticipates adopting a Negative Declaration for this project. This referral provides notice of a 30-day comment period during which Responsible and Trustee Agencies and other interested parties may provide comments to this Department regarding our proposal to adopt the Negative Declaration.

All applicable project documents are available for review at: Stanislaus County Department of Planning and Community Development, 1010 10<sup>th</sup> Street, Suite 3400, Modesto, CA 95354. Please provide any additional comments to the above address or call us at (209) 525-6330 if you have any questions. Thank you.

**Applicant:** Maria Silva, Langworth Dairy

**Project Location:** 5300, 5302, 5304, 5306, 5310, & 5314 Langworth Road, between Patterson and Claribel Roads, in the Riverbank area.

**APN:** 062-027-003

**Williamson Act Contract:** 76-2127

**General Plan:** Agriculture

**Current Zoning:** A-2-40 (General Agriculture)

Request to expand an existing dairy facility, operating on a 75.25± acre parcel, in the A-2-40 (General Agriculture) zoning district, by increasing the herd size from 680 to 1,100. The request proposes to expand the approved number of combined milk and dry cows from 570 (470 milk and 100 dry) to 975 (800 milk and 175 dry) and calves from 110 to 125. Heifers are currently housed at an off-site heifer facility and will remain housed off-site if this request is approved. Nutrients produced from the herd will be utilized to fertilize approximately 55 farmable acres on the same parcel. No construction is proposed. The existing dairy facility will continue to utilize a scrape cleaning system and contains all the necessary corrals, feed storage, waste containment, and utilities necessary to accommodate the proposed herd modification.

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Trips that occur on a per-weekly basis are anticipated to increase from six to 10 and monthly trips are proposed to decrease from 10 to three. The overall trip changes per month are anticipated to increase slightly from 160 to 169, with seasonal trips, like fertilizer and manure hauling services, being called as needed. Employee numbers are proposed to remain at four.

The parcel is enrolled in Williamson Act Contract No. 76-2127. The site is served by private domestic well and septic systems and receives irrigation water from Oakdale Irrigation District. The site takes access off of County-maintained Langworth Road. The Early Consultation referral circulated between April 12, 2019, through April 30, 2019, indicated that the project proposed to add a new storage pond; however, this information was incorrect as no new ponds are proposed.

**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 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 RURAL	X	STAN CO SUPERVISOR DIST 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 MEDICAL SERVICES	X	STANISLAUS LAFCO
	MUNICIPAL ADVISORY COUNCIL:	X	STATE OF CA SWRCB – DIV OF DRINKING WATER DIST. 10
X	PACIFIC GAS & ELECTRIC		SURROUNDING LAND OWNERS
	POSTMASTER:	X	TELEPHONE COMPANY: AT&T
X	RAILROAD: BURLINGTON NORTHERN SANTA FE		TRIBAL CONTACTS (CA Government Code §65352.3)
X	SAN JOAQUIN VALLEY APCD		US ARMY CORPS OF ENGINEERS
X	SCHOOL DIST 1: OAKDALE UNIFIED		US FISH & WILDLIFE
	SCHOOL DIST 2:		US MILITARY (SB 1462)
	WORKFORCE DEVELOPMENT	X	USDA NRCS
X	STAN CO AG COMMISSIONER		WATER DIST:
	TUOLUMNE RIVER TRUST		

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## 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
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


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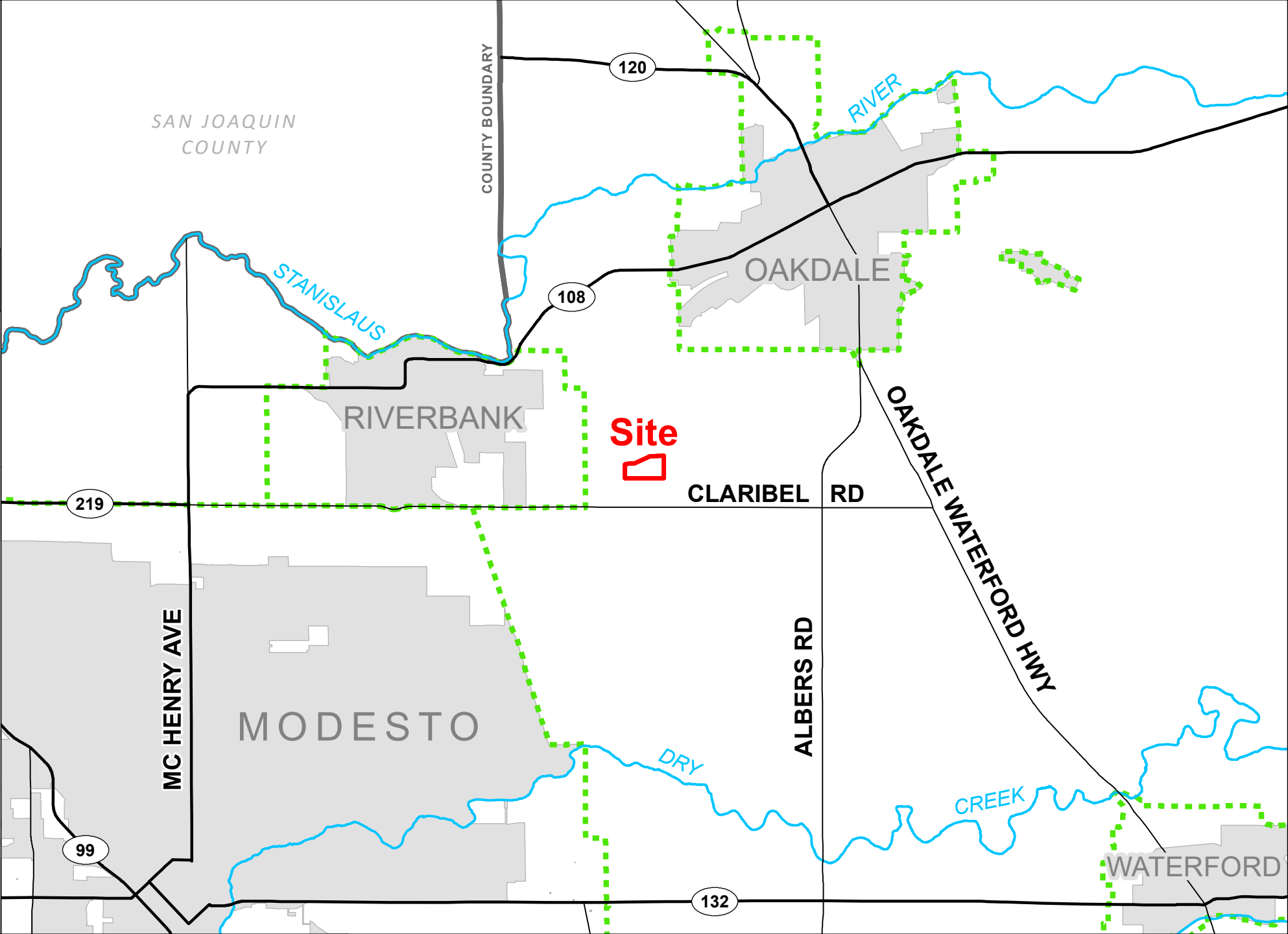
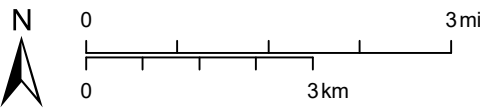


# LANGWORTH DAIRY UP PLN2019-0024

## AREA MAP

### LEGEND

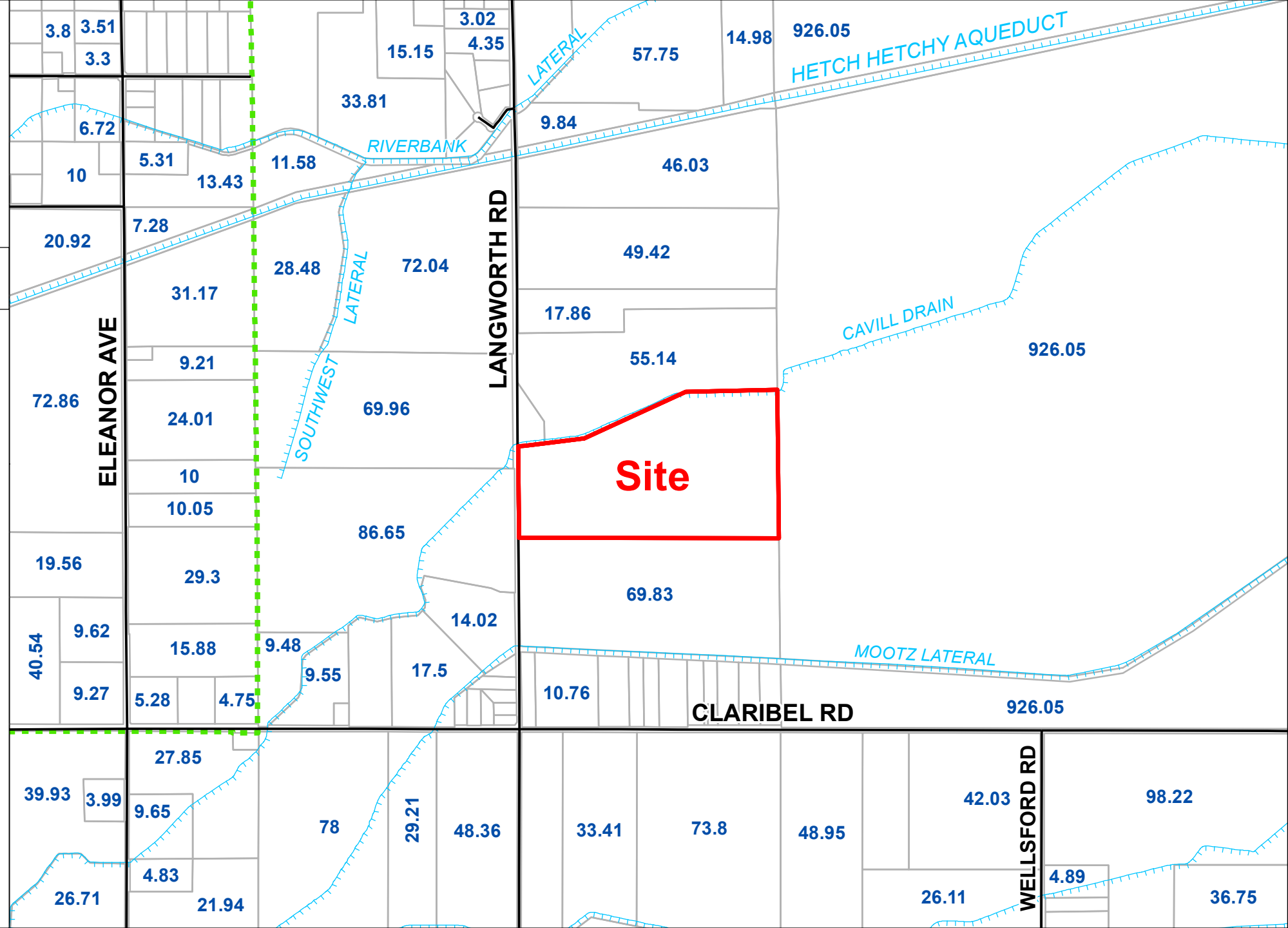
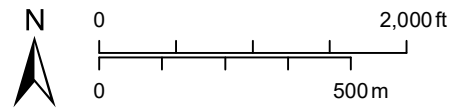
-  Project Site
-  Sphere of Influence
-  City
-  Road
-  River



# LANGWORTH DAIRY UP PLN2019-0024






## ACREAGE MAP

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

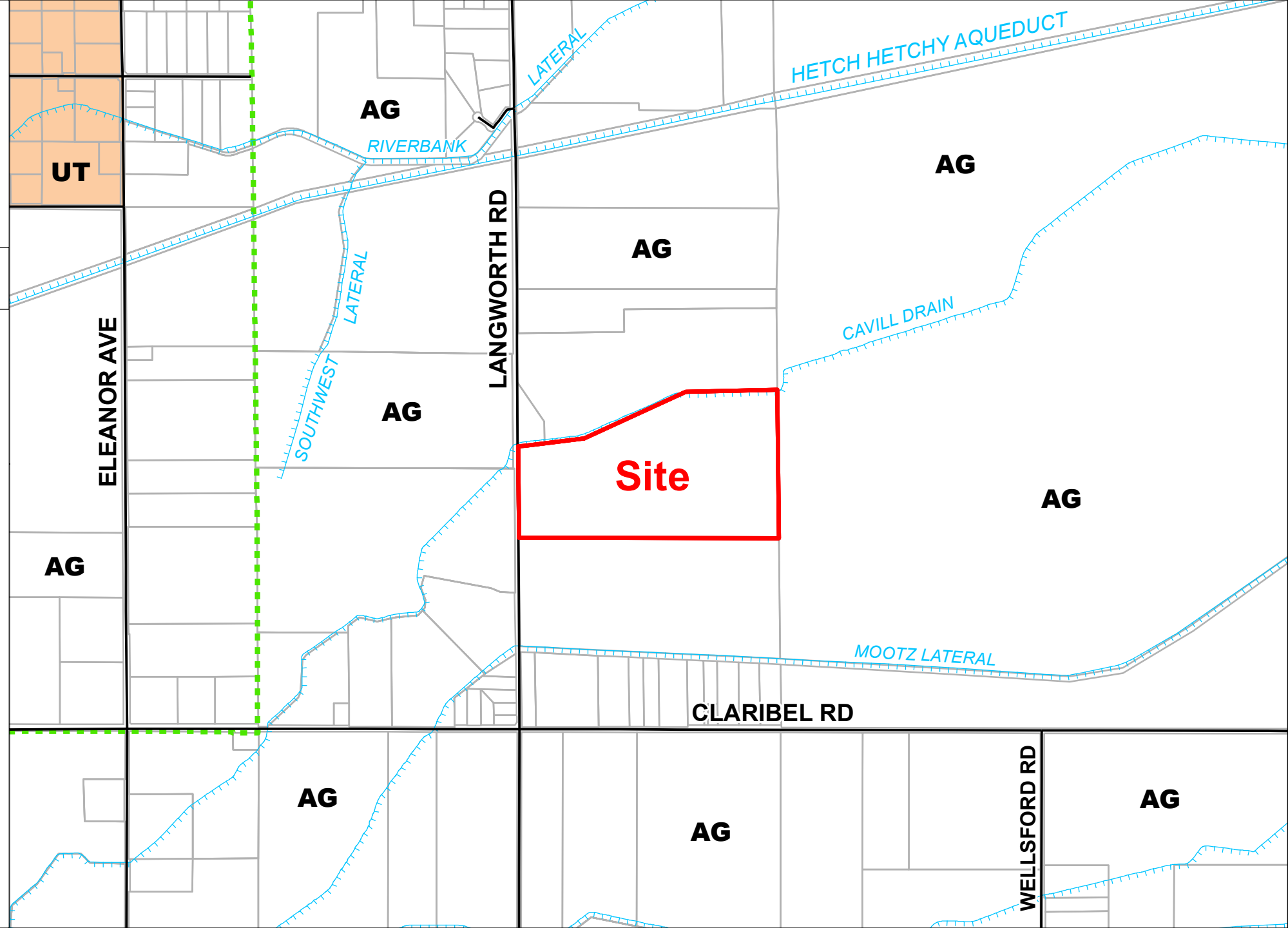
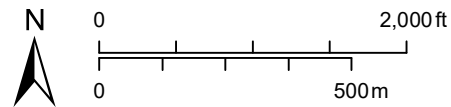


# LANGWORTH DAIRY UP PLN2019-0024

## GENERAL PLAN MAP

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






- General Plan**
-  Agriculture
  -  Urban Transition






# LANGWORTH DAIRY UP PLN2019-0024

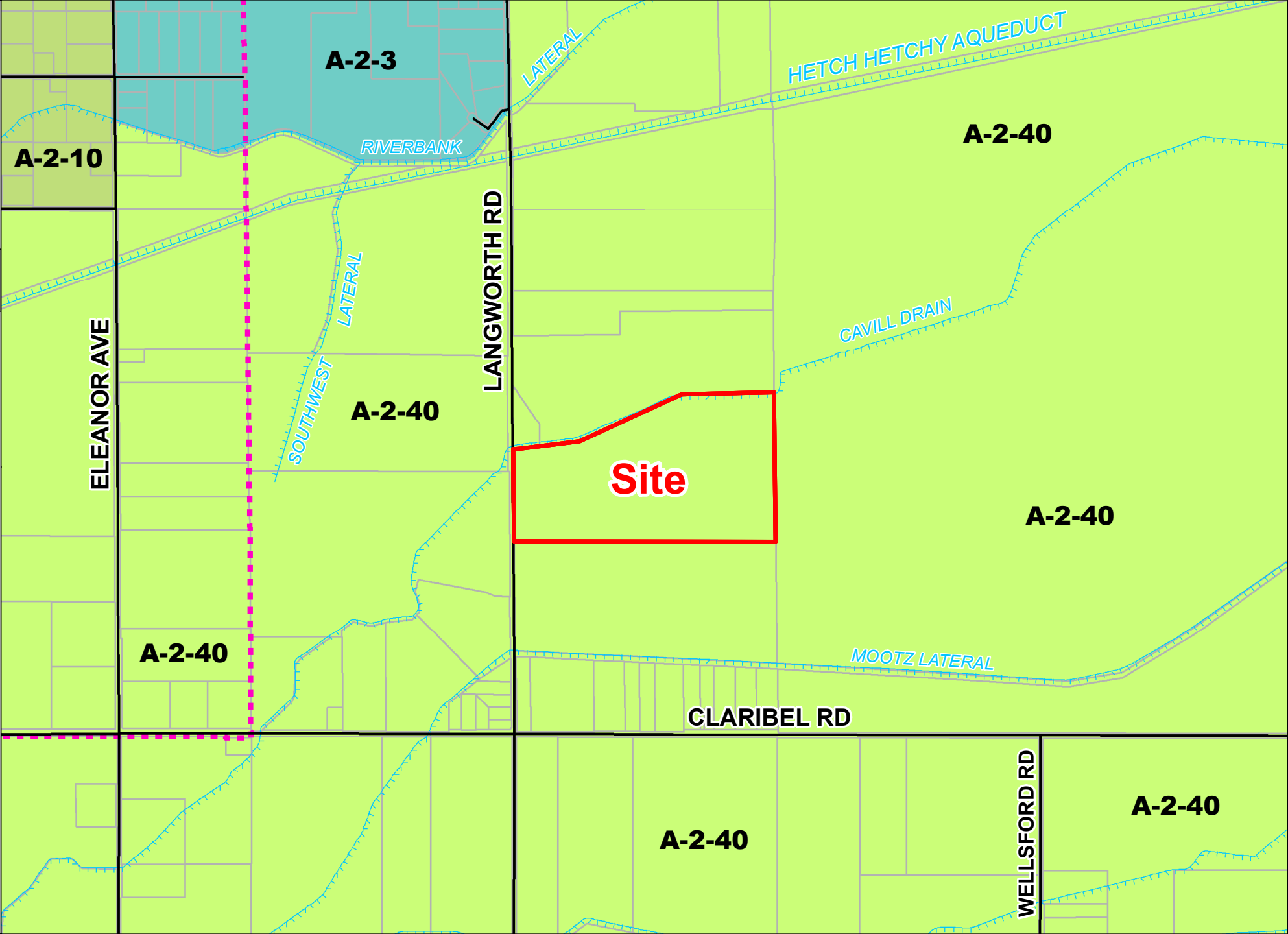
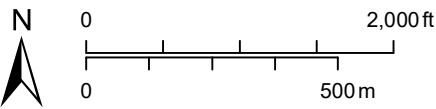
## ZONING MAP

### LEGEND

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

### Zoning Designation





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

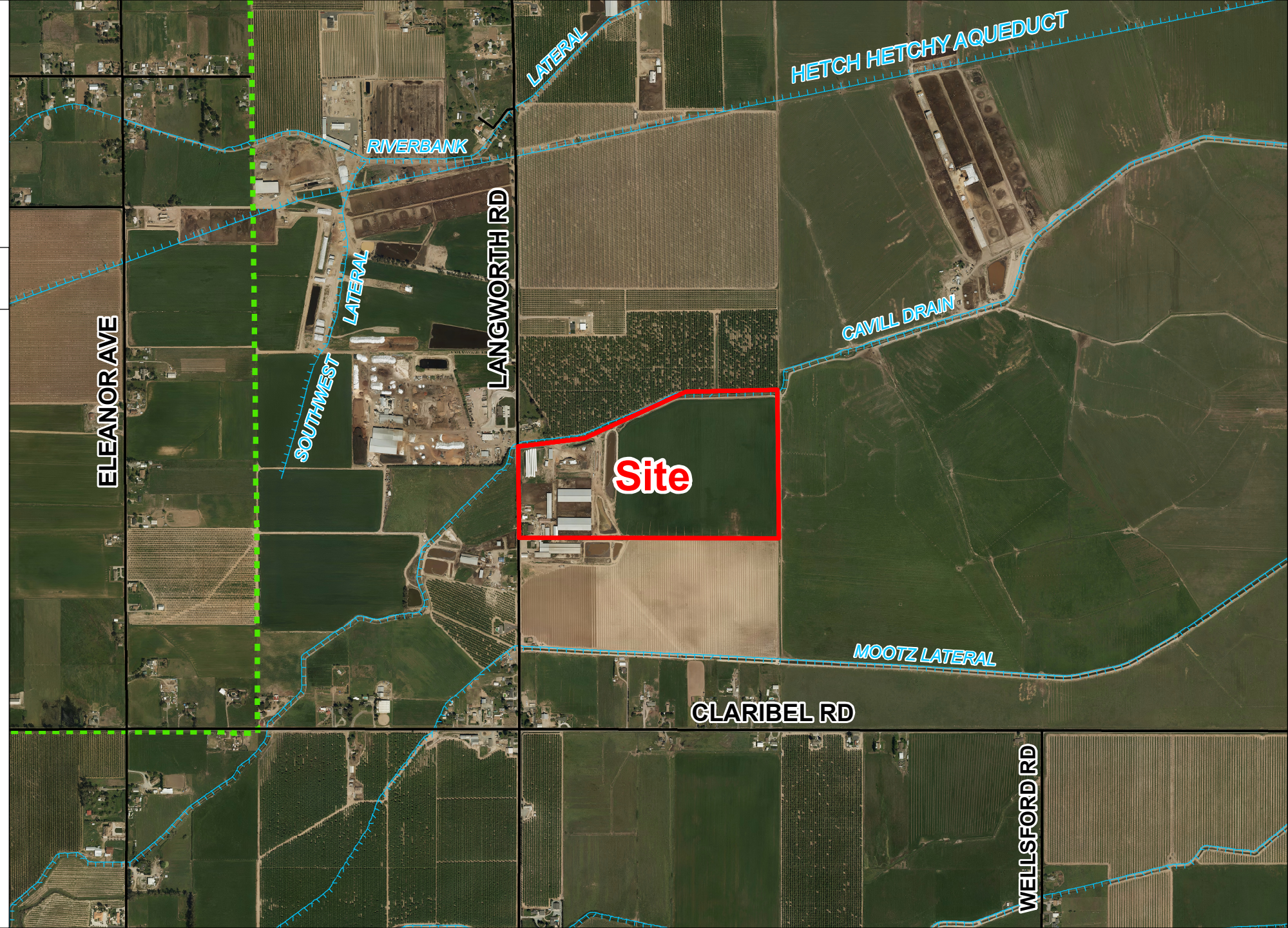
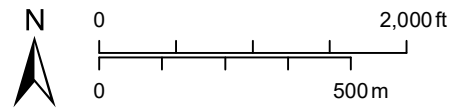




# LANGWORTH DAIRY UP PLN2019-0024

## 2017 AERIAL AREA MAP

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









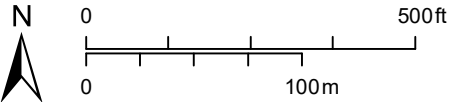
# LANGWORTH DAIRY

## UP PLN2019-0024

### 2017 AERIAL SITE MAP

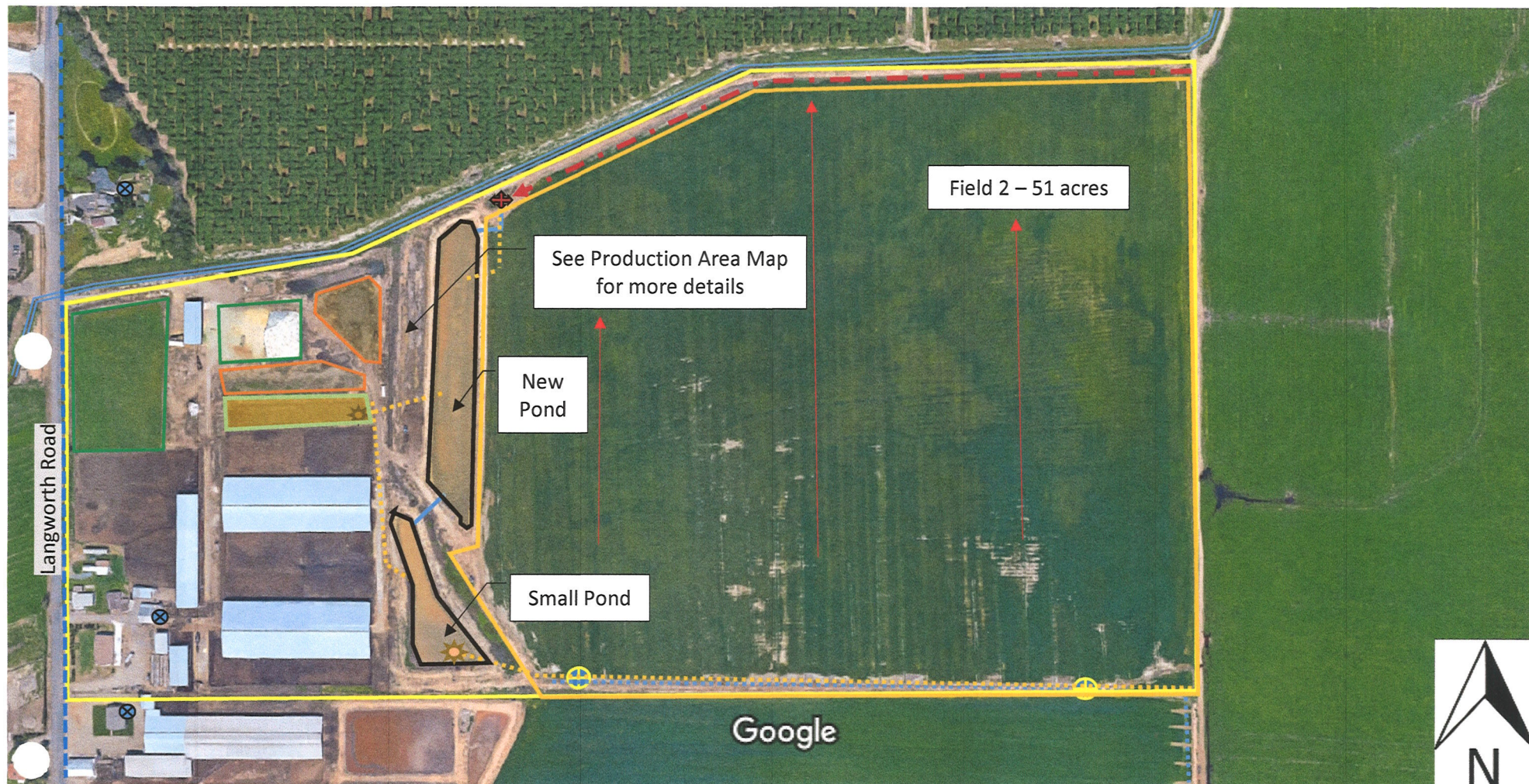
LEGEND

-  Project Site
-  Sphere of Influence
-  Road
-  Canal





# LAND APPLICATION MAP



## LEGEND

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			

SCALE 410 ft

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

## 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.



# 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  
Oakdale, CA 95361

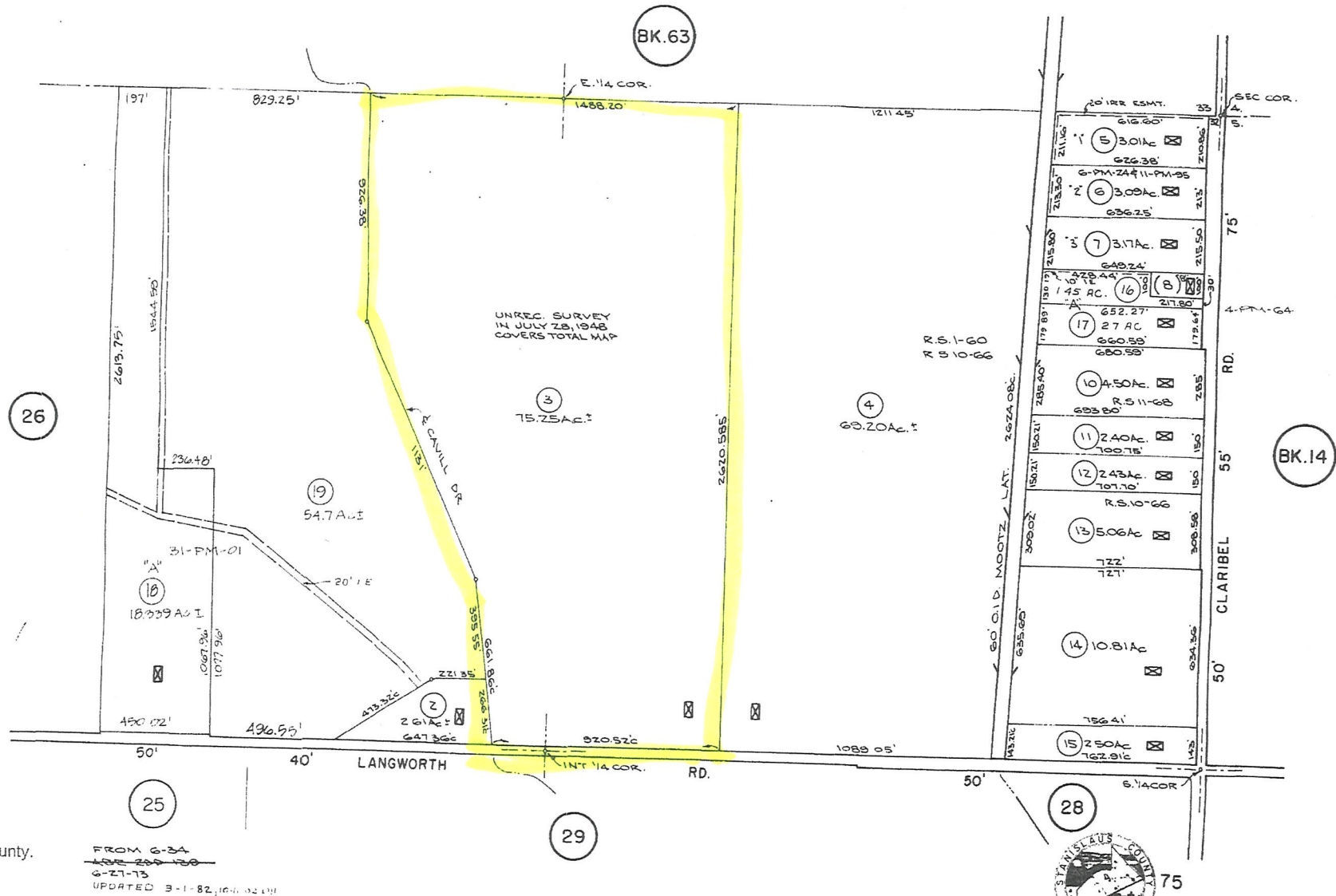
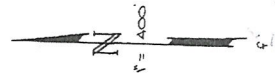
Produced by: Jacquie Captein Record Keeping, Inc.  
P.O. Box 386, Herald, CA 95638  
(209) 327-0992

SCALE 345 ft





THIS MAP FOR  
ASSESSMENT PURPOSES ONLY



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FROM G-3A  
REV. 2-20-120  
G-27-73  
UPDATED 3-1-82, 10-6-92, 1-1-97



**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

## CEQA INITIAL STUDY

Adapted from CEQA Guidelines APPENDIX G Environmental Checklist Form, Final Text, December 30, 2009

1. **Project title:** Use Permit Application No. PLN2019-0024  
Langworth Dairy
2. **Lead agency name and address:** Stanislaus County  
1010 10<sup>th</sup> Street, Suite 3400  
Modesto, CA 95354
3. **Contact person and phone number:** Kristen Anaya, Assistant Planner  
(209) 525-6330
4. **Project location:** 5300, 5302, 5304, 5306, 5310, & 5314  
Langworth Road, between Patterson and  
Claribel Roads, in the Riverbank area.  
APN: 062-027-003
5. **Project sponsor's name and address:** Maria Silva, Langworth Dairy  
5306 Langworth Road  
Oakdale, CA 95361
6. **General Plan designation:** Agriculture
7. **Zoning:** A-2-40 (General Agriculture)
8. **Description of project:**

Request to expand an existing dairy facility, operating on a 75.25± acre parcel, in the A-2-40 (General Agriculture) zoning district, by increasing the herd size from 680 to 1,100. The request proposes to expand the approved number of combined milk and dry cows from 570 (470 milk and 100 dry) to 975 (800 milk and 175 dry) and calves from 110 to 125. Heifers are currently housed at an off-site heifer facility and will remain housed off-site if this request is approved. Nutrients produced from the herd will be utilized to fertilize approximately 55 farmable acres on the same parcel. No construction is proposed. The existing dairy facility will continue to utilize a scrape cleaning system and contains all the necessary corrals, feed storage, waste containment, and utilities necessary to accommodate the proposed herd modification. Trips that occur on a per-weekly basis are anticipated to increase from six to 10 and monthly trips are proposed to decrease from 10 to three. The overall trip changes per month are anticipated to increase slightly from 160 to 169, with seasonal trips, like fertilizer and manure hauling services, being called as needed. Employee numbers are proposed to remain at four. The parcel is enrolled in Williamson Act Contract No. 76-2127. The site is served by a private domestic well and septic system and receives irrigation water from Oakdale Irrigation District. The site takes access off of County-maintained Langworth Road. The Early Consultation referral circulated between April 12, 2019 through April 30, 2019, indicated that the project proposed to add a new storage pond; however, this information was incorrect as no new ponds are proposed.

9. **Surrounding land uses and setting:** Irrigated agriculture, scattered rural residences,  
and confined animal facilities in all directions;  
and an agriculture commodity grinding  
business to the west.

10. **Other public agencies whose approval is required (e.g., permits, financing approval, or participation agreement.):** CalTrans  
Stanislaus County Department of Public Works  
Department of Environmental Resources  
San Joaquin Valley Air Pollution Control District  
Regional Water Quality Control Board
11. **Attachments:** Waste Management Plan  
Nutrient Management Plan

**ENVIRONMENTAL FACTORS POTENTIALLY AFFECTED:**

The environmental factors checked below would be potentially affected by this project, involving at least one impact that is a "Potentially Significant Impact" as indicated by the checklist on the following pages.

- |   |   |   |
|---|---|---|
| <input type="checkbox"/> Aesthetics               | <input type="checkbox"/> Agriculture & Forestry Resources | <input type="checkbox"/> Air Quality                        |
| <input type="checkbox"/> Biological Resources     | <input type="checkbox"/> Cultural Resources               | <input type="checkbox"/> Geology / Soils                    |
| <input type="checkbox"/> Greenhouse Gas Emissions | <input type="checkbox"/> Hazards & Hazardous Materials    | <input type="checkbox"/> Hydrology / Water Quality          |
| <input type="checkbox"/> Land Use / Planning      | <input type="checkbox"/> Mineral Resources                | <input type="checkbox"/> Noise                              |
| <input type="checkbox"/> Population / Housing     | <input type="checkbox"/> Public Services                  | <input type="checkbox"/> Recreation                         |
| <input type="checkbox"/> Transportation           | <input type="checkbox"/> Utilities / Service Systems      | <input type="checkbox"/> Mandatory Findings of Significance |
| <input type="checkbox"/> Wildfire                 | <input type="checkbox"/> Energy                           |   |

**DETERMINATION: (To be completed by the Lead Agency)**

On the basis of this initial evaluation:

- ☒ I find that the proposed project **COULD NOT** have a significant effect on the environment, and a **NEGATIVE DECLARATION** will be prepared.
- ☐ I find that although the proposed project could have a significant effect on the environment, there will not be a significant effect in this case because revisions in the project have been made by or agreed to by the project proponent. A **MITIGATED NEGATIVE DECLARATION** will be prepared.
- ☐ I find that the proposed project **MAY** have a significant effect on the environment, and an **ENVIRONMENTAL IMPACT REPORT** is required.
- ☐ I find that the proposed project **MAY** have a "potentially significant impact" or "potentially significant unless mitigated" impact on the environment, but at least one effect 1) has been adequately analyzed in an earlier document pursuant to applicable legal standards, and 2) has been addressed by mitigation measures based on the earlier analysis as described on attached sheets. An **ENVIRONMENTAL IMPACT REPORT** is required, but it must analyze only the effects that remain to be addressed.
- ☐ I find that although the proposed project could have a significant effect on the environment, because all potentially significant effects (a) have been analyzed adequately in an earlier EIR or **NEGATIVE DECLARATION** pursuant to applicable standards, and (b) have been avoided or mitigated pursuant to that earlier EIR or **NEGATIVE DECLARATION**, including revisions or mitigation measures that are imposed upon the proposed project, nothing further is required.

**EVALUATION OF ENVIRONMENTAL IMPACTS:**

1) A brief explanation is required for all answers except “No Impact” answers that are adequately supported by the information sources a lead agency cites in the parentheses following each question. A “No Impact” answer is adequately supported if the referenced information sources show that the impact simply does not apply to projects like the one involved (e.g., the project falls outside a fault rupture zone). A “No Impact” answer should be explained where it is based on project-specific factors as well as general standards (e.g., the project will not expose sensitive receptors to pollutants, based on a project-specific screening analysis).

2) All answers must take account of the whole action involved, including off-site as well as on-site, cumulative as well as project-level, indirect as well as direct, and construction as well as operational impacts.

3) Once the lead agency has determined that a particular physical impact may occur, than the checklist answers must indicate whether the impact is potentially significant, less than significant with mitigation, or less than significant. “Potentially Significant Impact” is appropriate if there is substantial evidence that an effect may be significant. If there are one or more “Potentially Significant Impact” entries when the determination is made, an EIR is required.

4) “Negative Declaration: Less Than Significant With Mitigation Incorporated” applies where the incorporation of mitigation measures has reduced an effect from “Potentially Significant Impact” to a “Less Than Significant Impact.” The lead agency must describe the mitigation measures, and briefly explain how they reduce the effect to a less than significant level (mitigation measures from Section XVII, “Earlier Analyses,” may be cross-referenced).

5) Earlier analyses may be used where, pursuant to the tiering, program EIR, or other CEQA process, an effect has been adequately analyzed in an earlier EIR or negative declaration.

Section 15063(c)(3)(D). In this case, a brief discussion should identify the following:

a) Earlier Analysis Used. Identify and state where they are available for review.

b) Impacts Adequately Addressed. Identify which effects from the above checklist were within the scope of and adequately analyzed in an earlier document pursuant to applicable legal standards, and state whether such effects were addressed by mitigation measures based on the earlier analysis.

c) Mitigation Measures. For effects that are “Less than Significant with Mitigation Measures Incorporated,” describe the mitigation measures which were incorporated or refined from the earlier document and the extent to which they address site-specific conditions for the project.

6) Lead agencies are encouraged to incorporate into the checklist references to information sources for potential impacts (e.g., general plans, zoning ordinances). References to a previously prepared or outside document should, where appropriate, include a reference to the page or pages where the statement is substantiated.

7) Supporting Information Sources: A source list should be attached, and other sources used or individuals contacted should be cited in the discussion.

8) This is only a suggested form, and lead agencies are free to use different formats; however, lead agencies should normally address the questions from this checklist that are relevant to a project’s environmental effects in whatever format is selected.

9) The explanation of each issue should identify:

a) the significant criteria or threshold, if any, used to evaluate each question; and

b) the mitigation measure identified, if any, to reduce the impact to less than significant.

## ISSUES

<b>I. AESTHETICS – Except as provided in Public Resources Code Section 21099, could the project:</b>	<b>Potentially Significant Impact</b>	<b>Less Than Significant With Mitigation Included</b>	<b>Less Than Significant Impact</b>	<b>No Impact</b>
<b>a) Have a substantial adverse effect on a scenic vista?</b>			X	
<b>b) Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?</b>			X	
<b>c) In non-urbanized areas, substantially degrade the existing visual character or quality of public views of the site and its surroundings? (Public views are those that are experienced from publicly accessible vantage point). If the project is in an urbanized area, would the project conflict with applicable zoning and other regulations governing scenic quality?</b>			X	
<b>d) Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?</b>			X	

**Discussion:** The site itself is not considered to be a scenic resource or unique scenic vista. As no new structures or physical improvements are proposed, aesthetics associated with the project site are not anticipated to change as a result of this project. The site is currently developed with an existing dairy facility. Standard conditions of approval will be added to this project to address glare and nightglow from any proposed on-site lighting.

**Mitigation:** None.

**References:** Application information; Stanislaus County Zoning Ordinance; the Stanislaus County General Plan; and Support Documentation.<sup>1</sup>

<b>II. AGRICULTURE AND FOREST RESOURCES: In determining whether impacts to agricultural resources are significant environmental effects, lead agencies may refer to the California Agricultural Land Evaluation and Site Assessment Model (1997) prepared by the California Department of Conservation as an optional model to use in assessing impacts on agriculture and farmland. In determining whether impacts to forest resources, including timberland, are significant environmental effects, lead agencies may refer to information compiled by the California Department of Forestry and Fire Protection regarding the state's inventory of forest land, including the Forest and Range Assessment Project and the Forest Legacy Assessment project; and forest carbon measurement methodology provided in Forest Protocols adopted by the California Air Resources Board. -- Would the project:</b>	<b>Potentially Significant Impact</b>	<b>Less Than Significant With Mitigation Included</b>	<b>Less Than Significant Impact</b>	<b>No Impact</b>
<b>a) Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?</b>			X	
<b>b) Conflict with existing zoning for agricultural use, or a Williamson Act contract?</b>			X	

<b>c) Conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code section 12220(g)), timberland (as defined by Public Resources Code section 4526), or timberland zoned Timberland Production (as defined by Government Code section 51104(g))?</b>			<b>X</b>	
<b>d) Result in the loss of forest land or conversion of forest land to non-forest use?</b>				<b>X</b>
<b>e) Involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland, to non-agricultural use or conversion of forest land to non-forest use?</b>			<b>X</b>	

**Discussion:** This is a request to increase the dairy herd size from 680 to 1,100. The request proposes to expand the approved number of combined milk and dry cows from 570 (470 milk and 100 dry) to 975 (800 milk and 175 dry) and calves from 110 to 125. Heifers are currently housed at an off-site heifer facility and will remain housed off-site if this request is approved. No construction is proposed as part of this request. Surrounding land uses consist of irrigated agriculture, scattered rural residences, and confined animal facilities in all directions. An agriculture commodity grinding business is in operation west of the property.

The portion of the project site where the dairy facility is located is designated by the California Department of Conservation Farmland Mapping and Monitoring Program as Confined Animal Agriculture. The remainder of the parcel is planted in irrigated row crops and designated as Farmland of Statewide Importance. According to the California Department of Agriculture's Natural Resources Conservation Service's Soil Survey, the parcel's soil is classified as being comprised 60%± Grade 4 San Joaquin sandy loams, three to eight percent slopes (SaB – California Revised Storie Index Rating: 24); 15%± Grade 3 Montpelier coarse sandy loam, zero to three percent slopes (MtA – Storie Index Rating: 88); and 25%± Grade 4 San Joaquin sandy loam, zero to three percent slopes (SaA – Storie Index Rating: 16). The California Revised Storie Index is a rating system based on soil properties that dictate the potential for soils to be used for irrigated agricultural production in California. This rating system grades soils with an index rating of 88 as excellent soil to be used for irrigated agriculture, 24 as poor, and 16 as very poor. However, the site does qualify as prime agricultural land based on the site having irrigated pasture land which supports livestock used for the production of food and fiber.

The Agricultural Element includes a requirement for an agricultural buffer to protect the long-term health of local agriculture by minimizing conflicts resulting from normal agricultural practices as a consequence of new or expanding uses approved in or adjacent to the A-2 (General Agriculture) zoning district. These guidelines apply to all new or expanding uses approved by discretionary permit in the A-2 zoning district or on a parcel adjoining the A-2 zoning district. However, dairies are considered to be a permitted agricultural use in the A-2 zoning district in Stanislaus County. Use permits are only processed for the expansion of dairy facilities when the Regional Water Quality Control Board (RWQCB) determines that Waste Discharge Requirements (WDRs) are required, which requires CEQA compliance. As dairies are a permitted use, an agricultural buffer is not required for this project. Additionally, the project site is currently enrolled under California Land Conservancy ("Williamson Act") Contract No. 76-2127. Uses requiring use permits that are approved on lands under California Land Conservation Contracts (Williamson Act Contracts) shall be consistent with all of the following principles of compatibility:

1. The use will not significantly compromise the long-term productive agricultural capability of the subject contracted parcel or parcels or on other contracted lands in the A-2 zoning district;
2. The use will not significantly displace or impair current or reasonably foreseeable agricultural operations on the subject contracted parcel or parcels or on other contracted lands in the A-2 zoning district; and
3. The use will not result in the significant removal of adjacent contracted land from agricultural or open-space use.

As a permitted agricultural use, the project is considered to be consistent with the Williamson Act Principals of Compatibility.

The existing dairy facility utilizes a scrape cleaning system and is already improved with all the necessary corrals, feed storage, waste management, and utilities necessary to accommodate the proposed herd expansion. The site is served by an on-site domestic well and private septic systems. The attached Waste Management Plan (WMP) and Nutrient

Management Plan (NMP) provide details on managing the expanded dairy cow stock. The nutrients produced by the herd will be utilized to fertilize approximately 55 farmable acres of irrigated cropland. All manure solids will continue to be exported for composting by Caton Ag, Inc. or other composting businesses as necessary. In an effort to reduce solids, the dairy operator has applied for and been approved and funded through the Natural Resources Conservation Service to install a mechanical separator and stacking pad. RWQCB has provided correspondence indicating that their staff are currently reviewing the applicant's WMP and NMP for sufficiency. Although they have requested some follow up information for the purposes of clarification, they indicated that there was no issue in moving forward with the environmental review of the project.

The project will have no impact to forest land or timberland. The project does not appear to conflict with any agricultural activities in the area and/or lands enrolled in the Williamson Act. The project was referred to the Department of Conservation, but no response has been received to date.

Based on the specific features and design of this project, it does not appear this project will impact the long-term productive agricultural capability of surrounding contracted lands in the A-2 zoning district. There is no indication this project will result in the removal of adjacent contracted land from agricultural use.

**Mitigation:** None.

**References:** E-mail correspondence Regional Water Quality Control Board, dated October 7, 2019; USDA Natural Resource Conservation Service Web Soil Survey; USDA Soil Conservation Service Soil Survey of Eastern Stanislaus Area CA; California Farmland Mapping and Monitoring Program Data; Application Materials; Stanislaus County General Plan and Support Documentation.<sup>1</sup>

III. AIR QUALITY: Where available, the significance criteria established by the applicable air quality management district or air pollution control district may be relied upon to make the following determinations. -- Would the project:	Potentially Significant Impact	Less Than Significant With Mitigation Included	Less Than Significant Impact	No Impact
a) Conflict with or obstruct implementation of the applicable air quality plan?			X	
b) Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard?			X	
c) Expose sensitive receptors to substantial pollutant concentrations?			X	
d) Result in other emissions (such as those odors adversely affecting a substantial number of people?			X	

**Discussion:** The proposed project is located within the San Joaquin Valley Air Basin (SJVAB) and, therefore, falls under the jurisdiction of the San Joaquin Valley Air Pollution Control District (SJVAPCD). In conjunction with the Stanislaus Council of Governments (StanCOG), the SJVAPCD is responsible for formulating and implementing air pollution control strategies. The SJVAPCD's most recent air quality plans are the 2007 PM<sub>10</sub> (respirable particulate matter) Maintenance Plan, the 2008 PM<sub>2.5</sub> (fine particulate matter) Plan, and the 2007 Ozone Plan. These plans establish a comprehensive air pollution control program leading to the attainment of state and federal air quality standards in the SJVAB, which has been classified as "extreme non-attainment" for ozone, "attainment" for respirable particulate matter (PM<sub>10</sub>), and "non-attainment" for PM<sub>2.5</sub>, as defined by the Federal Clean Air Act.

The SJVAPCD provided a project response indicating that the Project would have a less than significant impact on air quality and that the project specific annual emissions of criteria pollutants are not expected to exceed any of the District's annual criteria pollutant emissions significance thresholds, including: 100 tons per year of carbon monoxide (CO), 10 tons per year of oxides of nitrogen (NO<sub>x</sub>), 10 tons per year of reactive organic gases (ROG), 27 tons per year of oxides of sulfur (SO<sub>x</sub>), 15 tons per year of particulate matter of 10 microns or less in size (PM<sub>10</sub>), or 15 tons per year of particulate matter of 2.5 microns or less in size (PM<sub>2.5</sub>).



Employee trip numbers are proposed to remain the same at four. Trips that occur on a per-weekly basis are anticipated to increase from six to 10 and monthly trips are proposed to decrease from 10 to three. The overall trip changes per month are anticipated to increase slightly from 160 to 169, with seasonal trips, like fertilizer and manure hauling services, being called as needed. Because no construction is proposed, the project would not exceed the SJVAPCD significance thresholds for construction emissions. Furthermore, all future construction activities would occur in compliance with all SJVAPCD regulations. The proposed project would not increase the frequency or severity of existing air quality standards or the interim emission reductions specified in the air plans.

According to SJVAPCD, the project should also be evaluated to determine the likelihood that the project would result in nuisance odors. Nuisance odors are subjective; thus, the District has not established a threshold of significance for nuisance odors. Nuisance odors may be assessed qualitatively taking into consideration project design elements and proximity to off-site receptors that potentially would be exposed to objectionable odors. The subject project is an existing dairy located in the A-2-40 (General Agricultural) zoning district. Chapter 9.32 Agricultural Land Policies of the Stanislaus County Code requires purchasers and users of rural property be notified of the Right-to-Farm Ordinance. The Right-to Farm Ordinance establishes that conditions (noise, odor, dust, etc.) resulting from agricultural operations, conducted in a manner consistent with proper and accepted customs and standards, are not a nuisance; and establishes a grievance committee to mediate disputes involving agricultural operations.

The proposed expansion will require a Permit to Operate (PTO) and may be subject to the following District Rules: Regulation VIII, Rule 4102, Rule 4601, Rule 4641, Rule 4002, Rule 4102, Rule 4550, and Rule 4570. The applicant has already submitted their ATC application to the Air District. Staff will include a condition of approval on the project requiring that the applicant be in compliance with the District's rules and regulations.

For these reasons, the proposed project would be consistent with all applicable air quality plans. Also, the proposed project would not conflict with applicable regional plans or policies adopted by agencies with jurisdiction over the project and would be considered to have a less than significant impact on air quality.

**Mitigation:** None.

**References:** Referral response from San Joaquin Valley Air Pollution Control District, dated June 13, 2019; Stanislaus County General Plan and Support Documentation.<sup>1</sup>

<b>IV. BIOLOGICAL RESOURCES -- Would the project:</b>	<b>Potentially Significant Impact</b>	<b>Less Than Significant With Mitigation Included</b>	<b>Less Than Significant Impact</b>	<b>No Impact</b>
<b>a) Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?</b>			X	
<b>b) Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?</b>			X	
<b>c) Have a substantial adverse effect on state or federally protected wetlands (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?</b>			X	
<b>d) Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?</b>			X	

e) Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?			X	
f) Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan?			X	

**Discussion:** It does not appear this project will result in impacts to endangered species or habitats, locally designated species, or wildlife dispersal or mitigation corridors. There are no known sensitive or protected species or natural community located on the site. The project is located within the Riverbank Quad of the California Natural Diversity Database, which identifies several special-status species of plant and animal as potentially located within the quad: Swainson's hawk, vernal pool fairy shrimp, vernal pool tadpole shrimp, steelhead and chinook salmon, valley elderberry longhorn beetle. No rivers, creeks, or ponds exist on the project site or within the immediate vicinity. The Cavill Drain, which is an open canal, abuts the northern property line of the project site.

An early consultation was referred to the California Department of Fish and Wildlife (formerly the Department of Fish and Game) and no response was received.

The project is not anticipated to conflict with a Habitat Conservation Plan, a Natural Community Conservation Plan, or other locally approved conservation plans. Impacts to endangered species or habitats, locally designated species, or wildlife dispersal or mitigation corridors are considered to be less than significant.

**Mitigation:** None.

**References:** California Department of Fish and Wildlife's Natural Diversity Database Quad Species List; Stanislaus County General Plan and Support Documentation.<sup>1</sup>

V. CULTURAL RESOURCES -- Would the project:	Potentially Significant Impact	Less Than Significant With Mitigation Included	Less Than Significant Impact	No Impact
a) Cause a substantial adverse change in the significance of a historical resource pursuant to in § 15064.5?			X	
b) Cause a substantial adverse change in the significance of an archaeological resource pursuant to § 15064.5?			X	
c) Disturb any human remains, including those interred outside of formal cemeteries?			X	

**Discussion:** It does not appear that this project will result in significant impacts to any archaeological or cultural resources. The project site is already developed and no construction is proposed. However, standard conditions of approval regarding the discovery of cultural resources, should any future construction occur will be added to the project.

This project has low sensitivity for cultural, historical, paleontological, or tribal resources due to it being already developed for many years. It does not appear that this project will result in significant impacts to any archaeological or cultural resources. The project was referred to the California Native American Heritage Commission, who responded with a standard letter discussing tribal consultation requirements pursuant to AB 52 and SB 18 and CEQA document preparation requirements. As this project does not include adoption or amendment to a general plan or specific plan, or the designation or proposed designation of open space, nor subject to NEPA, AB 52 and SB 18 do not apply.

**Mitigation:** None.

**References:** Referral response received from the California Native American Heritage Commission, dated May 10, 2019; Stanislaus County General Plan and Support Documentation.<sup>1</sup>

VI. ENERGY. -- Would the project:	Potentially Significant Impact	Less Than Significant With Mitigation Included	Less Than Significant Impact	No Impact
a) Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation?			X	
b) Conflict with or obstruct a state or local plan for renewable energy or energy efficiency?			X	

**Discussion:** The CEQA Guidelines Appendix F states that energy consuming equipment and processes, which will be used during construction or operation, shall be taken into consideration when evaluating energy impacts, such as: energy requirements of the project by fuel type and end use; energy conservation equipment and design features; energy supplies that would serve the project; and total estimated daily vehicle trips to be generated by the project and the additional energy consumed per trip by mode. Additionally, the project's compliance with applicable state or local energy legislation, policies, and standards must be considered.

The project proposed to increase the herd size from 680 to 1,100. The request proposes to expand the approved number of combined milk and dry cows from 570 (470 milk and 100 dry) to 975 (800 milk and 175 dry) and calves from 110 to 125. Heifers are currently housed at an off-site heifer facility and will remain housed off-site if this request is approved. No construction is proposed as part of this request. The existing dairy facility utilizes a scrape cleaning system and is already improved with all the necessary corrals, feed storage, waste management, and utilities necessary to accommodate the proposed herd expansion. Employee numbers are proposed to remain the same at four. Trips that occur on a per-weekly basis are anticipated to increase from six to 10 and monthly trips are proposed to decrease from 10 to three. The overall trip changes per month are anticipated to increase slightly from 160 to 169, with seasonal trips, like fertilizer and manure hauling services, being called as needed.

It does not appear that this project will result in significant impacts to the wasteful, inefficient, or unnecessary consumption of energy resources. A condition of approval will be added to this project to address compliance with Title 24, Green Building Code, for any future construction that might occur requiring energy efficiency. Additionally, a condition of approval will be added requiring any on-site lighting meet industry standards for energy efficiency.

The project was referred to Pacific Gas & Electric (PG&E) which provides the project site with electric service, and no response was received to date.

**Mitigation:** None.

**References:** California Building Code, Title 24; Stanislaus County General Plan and Support Documentation.<sup>1</sup>

VII. GEOLOGY AND SOILS -- Would the project:	Potentially Significant Impact	Less Than Significant With Mitigation Included	Less Than Significant Impact	No Impact
a) Directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving:				
i) Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42.				X
ii) Strong seismic ground shaking?			X	
iii) Seismic-related ground failure, including liquefaction?			X	
iv) Landslides?				X

<b>b) Result in substantial soil erosion or the loss of topsoil?</b>			<b>X</b>	
<b>c) Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction or collapse?</b>			<b>X</b>	
<b>d) Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial direct or indirect risks to life or property?</b>			<b>X</b>	
<b>e) Have soils incapable of adequately supporting the use of septic tanks or alternative waste water disposal systems where sewers are not available for the disposal of waste water?</b>			<b>X</b>	
<b>f) Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?</b>			<b>X</b>	

**Discussion:** The USDA Natural Resources Conservation Service's Eastern Stanislaus County Soil Survey indicates that the property is made up of Montpelier coarse sandy loam (MtA) and San Joaquin sandy loams (SaA and SaB). As contained in Chapter 5 of the General Plan Support Documentation, the areas of the County subject to significant geologic hazard are located in the Diablo Range, west of Interstate 5; however, as per the California Building Code, all of Stanislaus County is located within a geologic hazard zone (Seismic Design Category D, E, or F) and a soils test may be required at building permit application. Results from the soils test will determine if unstable or expansive soils are present. If such soils are present, special engineering of the structure will be required to compensate for the soil deficiency. Any structures resulting from this project will be designed and built according to building standards appropriate to withstand shaking for the area in which they are constructed. An early consultation referral response received from the Department of Public Works indicated that a grading, drainage, and erosion/sediment control plan for the project will be required if the existing project site footprint were to ever expand, subject to Public Works review and Standards and Specifications. Likewise, any addition or expansion of a septic tank or alternative waste water disposal system would require the approval of the Department of Environmental Resources (DER) through the building permit process, which also takes soil type into consideration within the specific design requirements.

The project site is not located near an active fault or within a high earthquake zone. Landslides are not likely due to the flat terrain of the area.

DER, Public Works, and the Building Permits Division review and approve any building or grading permit to ensure their standards are met. Conditions of approval regarding these standards will be applied to the project and will be triggered if construction occurs in the future and a building permit is required.

**Mitigation:** None.

**References:** Referral response from Public Works, dated May 28, 2019; Stanislaus County General Plan and Support Documentation.<sup>1</sup>

<b>VIII. GREENHOUSE GAS EMISSIONS -- Would the project:</b>	<b>Potentially Significant Impact</b>	<b>Less Than Significant With Mitigation Included</b>	<b>Less Than Significant Impact</b>	<b>No Impact</b>
<b>a) Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?</b>			<b>X</b>	
<b>b) Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?</b>			<b>X</b>	

**Discussion:** The principal Greenhouse Gasses (GHGs) are carbon dioxide (CO<sub>2</sub>), methane (CH<sub>4</sub>), nitrous oxide (N<sub>2</sub>O), sulfur hexafluoride (SF<sub>6</sub>), perfluorocarbons (PFCs), hydrofluorocarbons (HFCs), and water vapor (H<sub>2</sub>O). CO<sub>2</sub> is the reference gas for climate change because it is the predominant greenhouse gas emitted. To account for the varying

warming potential of different GHGs, GHG emissions are often quantified and reported as CO2 equivalents (CO2e). In 2006, California passed the California Global Warming Solutions Act of 2006 (Assembly Bill [AB] No. 32), which requires the California Air Resources Board (ARB) design and implement emission limits, regulations, and other measures, such that feasible and cost-effective statewide GHG emissions are reduced to 1990 levels by 2020.

As a requirement of AB 32, the ARB was assigned the task of developing a Climate Change Scoping Plan that outlines the state's strategy to achieve the 2020 GHG emissions limits. This Scoping Plan includes a comprehensive set of actions designed to reduce overall GHG emissions in California, improve the environment, reduce the state's dependence on oil, diversify the state's energy sources, save energy, create new jobs, and enhance public health. The Climate Change Scoping Plan was approved by the ARB on December 22, 2008. According to the September 23, 2010 AB 32 Climate Change Scoping Plan Progress Report, 40 percent of the reductions identified in the Scoping Plan have been secured through ARB actions, and California is on track to its 2020 goal.

The proposed project does not include construction and therefore would not result in short-term emissions of GHGs that occur during construction activities. These emissions, primarily CO2, CH4, and N2O, are the result of fuel combustion by construction equipment and motor vehicles. The other primary GHGs (HFCs, PFCs, and SF6) are typically associated with specific industrial sources and are not expected to be emitted by the proposed project. As described above in Section III - Air Quality, no construction is proposed so the use of heavy-duty construction equipment would be very limited; therefore, the emissions of CO2 from construction would be less than significant.

This project proposes to increase cow numbers by 405 cows. Employee numbers are proposed to remain the same at four. Trips that occur on a per-weekly basis are anticipated to increase from six to 10 and monthly trips are proposed to decrease from 10 to three. The overall trip changes per month are anticipated to increase slightly from 160 to 169, with seasonal trips, like fertilizer and manure hauling services, being called as needed. The Air District provided a project referral response indicating that the proposed project is below the District's thresholds of significance for emissions and that the proposed project may be subject to the following District Rules: Regulation VIII (Fugitive PM Prohibitions), Rule 4102 (Nuisance), Rule 4601 (Architectural Coatings), Rule 4641 (Cutback, Slow Cure, and Emulsified Asphalt, Paving and Maintenance Operations), Rule 4002 (National Emission Standards for Hazardous Air Pollutants), Rule 4550 (Conservation Management Practices), and Rule 4570 (Confined Animal Facilities). Staff will include a condition of approval on the project requiring that the applicant complies with the District's rules and regulations.

**Mitigation:** None.

**References:** Referral response from the San Joaquin Valley Air Pollution Control District, dated June 13, 2019; Stanislaus County General Plan and Support Documentation.<sup>1</sup>

IX. HAZARDS AND HAZARDOUS MATERIALS -- Would the project:	Potentially Significant Impact	Less Than Significant With Mitigation Included	Less Than Significant Impact	No Impact
a) Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?			X	
b) Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?			X	
c) Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?			X	
d) Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?			X	

e) For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard or excessive noise for people residing or working in the project area?				X
f) Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?			X	
g) Expose people or structures, either directly or indirectly, to a significant risk of loss, injury or death involving wildland fires?			X	

**Discussion:** The County's Department of Environmental Resources is responsible for overseeing hazardous materials and has not indicated any particular concerns in this area. Pesticide exposure is a risk in areas located in the vicinity of agriculture. Sources of exposure include contaminated groundwater, which is consumed, and drift from spray applications. Applications of sprays are strictly controlled by the Agricultural Commissioner and can only be accomplished after first obtaining permits. Animal waste resulting from daily operations will be managed through Waste and Nutrient Management Plans, which is being reviewed by the Regional Water Quality Control Board, and will need to be approved prior to herd expansion. The proposed use is otherwise not recognized as a generator and/or consumer of hazardous materials, therefore no significant impacts associated with hazards or hazardous materials are anticipated to occur as a result of the proposed project.

The project site is not listed on the EnviroStor database managed by the CA Department of Toxic Substances Control or within the vicinity of any airstrip. The groundwater is not known to be contaminated in this area. The site is not located in a State Responsibility Area (SRA) for fire protection and is served by the Oakdale Rural Fire Protection District. An Early Consultation was sent to the Oakdale Rural Fire Protection District, and no comments have been received to date.

The project site is not within the vicinity of any airstrip or wildlands.

**Mitigation:** None.

**References:** Stanislaus County General Plan and Support Documentation.<sup>1</sup>

<b>X. HYDROLOGY AND WATER QUALITY -- Would the project:</b>	<b>Potentially Significant Impact</b>	<b>Less Than Significant With Mitigation Included</b>	<b>Less Than Significant Impact</b>	<b>No Impact</b>
a) Violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or ground water quality?			X	
b) Substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin?			X	
c) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would:			X	
(i) result in substantial erosion or siltation on – or off-site;			X	
(ii) substantially increase the rate of amount of surface runoff in a manner which would result in flooding on- or off-site;			X	

(iii) create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff; or			X	
(iv) impede or redirect flood flows?			X	
d) In flood hazard, tsunami, or seiche zones, risk release of pollutants due to project inundation?			X	
e) Conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan?			X	

**Discussion:** No construction is proposed as part of this request. Areas subject to flooding have been identified in accordance with the Federal Emergency Management Act (FEMA). Run-off is not considered an issue because of several factors which limit the potential impact. These factors include a relative flat terrain of the subject site and relatively low rainfall intensities. Areas subject to flooding have been identified in accordance with the Federal Emergency Management Act (FEMA). The project site is located in FEMA Flood Zone X, which includes areas determined to be outside the 0.2% annual chance floodplains. As such, flooding is not considered to be an issue with respect to this project. If construction were to occur in the future, flood zone requirements will be addressed by the Building Permits Division during the building permit application process. The Stanislaus County Department of Public Works has reviewed the project and is requiring a grading, drainage, and erosion/sediment control plan for any on-site work that will alter the building footprint for the site. Consequently, run-off associated with the construction of any new structure will be reviewed as part of the overall building permit review process.

The project site utilizes existing septic systems and on-site well. A new septic system is proposed for this expansion; installation of any future septic systems must be reviewed and approved by the DER and must adhere to current Local Agency Management Program (LAMP) standards. LAMP standards include minimum setbacks from wells to prevent negative impacts to groundwater quality.

The Department of Environmental Resources (DER) regulates the issuance of new well permits. After submittal for this herd expansion request, the applicant applied for and was approved for a second mobile home for a full-time employee (Temporary Mobile Home Permit No. 2004-34 – Oct) bringing the site housing total to five dwellings for a total of five connections to the existing well. During the project's Early Consultation referral period, via the Environmental Review Committee, DER identified the site's water supply to be a state small water system as its water source after conducting a water system classification determination evaluation on April 23, 2019. The project's description proposes to continue to use the existing water well to serve as the source for the project site's water system. The California Safe Drinking Water Act (CA Health and Safety Code Section 116275(n)) defines a State Small Water System as a system for the provision of piped water to the public for human consumption that serves at least five, but not more than 14, service connections; and does not regularly serve drinking water to more than an average of 25 individuals daily for more than 60 days out of the year. A State Small Water System includes the following:

- 1) Any collection, treatment, storage, and distribution facilities under control of the operator of the system that are used primarily in connection with the system.
- 2) Any collection or pretreatment storage facilities not under the control of the operator that are used primarily in connection with the system.
- 3) Any water system that treats water on behalf of one or more water systems for the purpose of rendering it safe for human consumption.

A condition of approval is being added to the project to further ensure state and local standards are being met for bringing the site into compliance with state small water system standards. The Department of Environmental Resources (DER) regulates the issuance of new well permits. The following items must be submitted to DER: an application for Domestic Water Supply Permit, State Small Water System Technical Report, Bacteriological Sample Site Plan, Emergency Notification Plan and a Full Title 22 chemical analysis panel for a State Small Water System and bacteriological sampling from the well head. The water quality of the existing well has yet to be determined. If the existing on-site well do not meet State Small Water System standards the applicant may need to drill a new well. If the new well does not meet State Small Water System standards the applicant may need to either drill an additional well or install a water treatment system for the existing or new well.

Stanislaus County adopted a Groundwater Ordinance in November 2014 (Chapter 9.37 of the County Code, hereinafter, the "Ordinance") that codifies requirements, prohibitions, and exemptions intended to help promote sustainable groundwater extraction in unincorporated areas of the County. The Ordinance prohibits the unsustainable extraction of groundwater and makes issuing permits for new wells, which are not exempt from this prohibition, discretionary. For unincorporated areas covered in an adopted GSP pursuant to SGMA, the County can require holders of permits for wells it reasonably concludes are withdrawing groundwater unsustainably to provide substantial evidence that continued operation of such wells does not constitute unsustainable extraction and has the authority to regulate future groundwater extraction. The construction and operation of wells could potentially cause degradation of water quality due to cross connection of aquifers of varying quality or induced migration of groundwater with impaired water quality. The Ordinance is intended to address these eventualities. To implement the 2014 Stanislaus County Groundwater Ordinance, the County has developed its Discretionary Well Permitting and Management Program to prevent the unsustainable extraction from new wells subject to the Stanislaus County Groundwater Ordinance. If a new well is installed on-site, the applicant must obtain a drilling permit as required by State and County regulations, prior to the construction of new wells. The West Turlock Groundwater Sustainability Agency covers the western portion of the Turlock Groundwater Sub-basin, and in conjunction with the East Turlock Groundwater Sustainability Agency, is tasked with ensuring compliance with the Sustainable Groundwater Management Act (SGMA) through a Groundwater Sustainability Plan to be adopted in 2022. The existing well—or new well if installed, is not anticipated to have a significant effect on groundwater supplies.

The water quality of the existing well has yet to be determined. If the existing on-site well does not meet State Small Water System standards the applicant may need to drill a new well. If the new well does not meet State Small Water System standards the applicant may need to either drill an additional well or install a water treatment system for the existing or new wells. Goal Two, Policy Seven, of the Stanislaus County General Plan's Conservation/Open Space Element requires that new development that does not derive domestic water from pre-existing domestic and water supply systems be required to have a documented water supply that does not adversely impact Stanislaus County water resources. This Policy is implemented by requiring proposals for development that will be served by new water supply systems be referred to appropriate water districts, irrigation districts, community services districts, the State Water Resources Board and any other appropriate agencies for review and comment. Additionally, all development requests shall be reviewed to ensure that sufficient evidence has been provided to document the existence of a water supply sufficient to meet the short and long-term water needs of the project without adversely impacting the quality and quantity of existing local water resources.

In order to be considered a "de minimis" extractor and therefore exempt from the County's Groundwater Ordinance which requires CEQA compliance, the water demand increase for the project site must not increase by two acre feet or more per year. The applicant estimates that all dwellings, including the newly added temporary mobile home on-site will use a total of 173,375 gallons of domestic water per year, or 0.53 acre feet per year. According to the Waste Management Plan, the dairy facility currently utilizes 1,427,400 gallons per year, or 4.38 acre feet, but is not anticipated to change as a result of this request; therefore, as the dairy's water demand is considered existing as they would only be restoring that water supply, it is not accounted for when considering water demand increase. Based on this information, the drilling of a new well would be considered a de minimis extractor, and would therefore not be subject to the County's Groundwater Ordinance which requires CEQA-compliance. If the applicant is required to install a water treatment system, it will be required to be approved by the Regional Water Quality Control Board and the Department of Environmental Resources. Regardless of which avenue the applicant takes to meet State Small Water System standards, water supply permits require on-going testing.

The WMP and NMP were reviewed by RWQCB staff to determine if the amount of wastewater generated, utilized to wash down the facility, and applied to crops was in accordance with the standards outlined in the General Order and whether new individual WDRs are needed. The purpose of review of these plans and compliance with the General Order is to ensure that approved plans are designed and implemented to ensure that the impact of animal waste on surface and groundwater quality is minimized and poses a less than significant impact on water quality. According to the WMP, the total process wastewater generated daily will be 16,933 gallons per day. The existing and required lagoon storage capacities were calculated to be 6.1 and 0.9 million gallons, respectively. RWQCB staff is responsible for determining that the aforementioned plans are compliant with the General Order and that the existing lagoons are adequately sized to handle any additional waste resulting from the reorganization; RWQCB provided correspondence stating that no significant issues have been identified with respect to the proposed project based on application materials, the attached draft Waste and Nutrient Management Plans, and the fact that no new ponds are proposed. An E-mail provided by RWQCB staff, dated October 7, 2019, indicated that although they did need some additional information on proposed operation and clarification to the Waste Management Plan, they had no objections to proceeding with the Initial Study and project approval and would work with the applicant to obtain the additional information. Conditions of approval will be applied to the project which require adherence to the Regional Water accepted Waste and Nutrient Management Plans and all RWQCB standards,



including completing individual Waste Discharge requirements. Consequently, the potential for impacts to ground and surface water, water quality, and polluted run-off were determined to be less than significant.

**Mitigation:** None.

**References:** Referral response from the Environmental Review Committee, dated April 30, 2019 and as amended May 8, 2019; E-mail correspondence from Regional Water Quality Control Board, dated October 7, 2019; E-mail correspondence from the applicant, dated March 26, 2020; E-mail correspondence from the Department of Environmental Resources, dated March 4, 2020; Referral response from the Department of Public Works, dated May 28, 2019; Stanislaus County General Plan and Support Documentation.<sup>1</sup>

XI. LAND USE AND PLANNING -- Would the project:				
	Potentially Significant Impact	Less Than Significant With Mitigation Included	Less Than Significant Impact	No Impact
a) Physically divide an established community?				X
b) Cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect?			X	

**Discussion:** The project site is designated Agriculture in the County General Plan and is zoned A-2-40 (General Agriculture). The applicant is requesting to expand an existing dairy facility by increasing the herd size from 680 to 1,100. The request proposes to expand the approved number of combined milk and dry cows from 570 (470 milk and 100 dry) to 975 (800 milk and 175 dry) and calves from 110 to 125. Heifers are currently housed at an off-site heifer facility and will remain housed off-site if this request is approved. Nutrients produced from the herd will be utilized to fertilize approximately 55 farmable acres on the same parcel. The existing dairy operation contains all the necessary corrals, feed storage, waste containment, and utilities necessary to accommodate the proposed herd modification. A dairy herd expansion is permitted in the agricultural zone; however, the RWQCB has determined that the proposed project is subject to CEQA and, therefore, requires that the applicants obtain a Use Permit in accordance with §21.20.030(F) of the Stanislaus County Zoning Ordinance. CEQA is required in instances where a dairy will be required to obtain Individual WDRs as part of an expansion. In addition, agricultural uses requiring a Use Permit which do not fall under Tier One, Two, or Three uses may be allowed when the Planning Commission finds that:

The establishment, maintenance, and operation of the proposed use or buildings applied for are consistent with the General Plan and will not, under the circumstances of the particular case, be detrimental to the health, safety, and general welfare of persons residing or working in the neighborhood of the use, and that it will not be detrimental or injurious to property and improvements in the neighborhood or to the general welfare of the County.

The project site is enrolled in an active Williamson Act Contract. Based on the specific features and design of this project, it does not appear this project will impact the long-term productive agricultural capability of surrounding contracted lands in the A-2 zoning district. There is no indication this project will result in the removal of adjacent contracted land from agricultural use. The project was referred to the Department of Conservation, and no response has been received to date.

The project does not propose any structural improvements. This request will not physically divide an established community, nor conflict with any habitat conservation plans.

**Mitigation:** None.

**References:** Stanislaus County General Plan and Support Documentation.<sup>1</sup>

<b>XII. MINERAL RESOURCES -- Would the project:</b>	<b>Potentially Significant Impact</b>	<b>Less Than Significant With Mitigation Included</b>	<b>Less Than Significant Impact</b>	<b>No Impact</b>
<b>a) Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?</b>			<b>X</b>	
<b>b) Result in the loss of availability of a locally-important mineral resource recovery site delineated on a local general plan, specific plan or other land use plan?</b>			<b>X</b>	

**Discussion:** The location of all commercially viable mineral resources in Stanislaus County has been mapped by the State Division of Mines and Geology in Special Report 173. The project site is located in the Ceres Quad of the United States Geological Survey 7.5-minute topographic quadrangle map. There are no known significant resources on the site, nor is the project site located in a geological area known to produce resources.

**Mitigation:** None.

**References:** Stanislaus County General Plan and Support Documentation.<sup>1</sup>

<b>XIII. NOISE -- Would the project result in:</b>	<b>Potentially Significant Impact</b>	<b>Less Than Significant With Mitigation Included</b>	<b>Less Than Significant Impact</b>	<b>No Impact</b>
<b>a) Generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?</b>			<b>X</b>	
<b>b) Generation of excessive groundborne vibration or groundborne noise levels?</b>			<b>X</b>	
<b>c) For a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?</b>			<b>X</b>	

**Discussion:** The Stanislaus County General Plan identifies noise levels up to 75 dB Ldn (or CNEL) as the normally acceptable level of noise for agricultural uses. No construction is proposed as part of the project request. Noise impacts associated with on-site activities and traffic are not anticipated to exceed the normally acceptable level of noise. Permanent increases may result as the number of animal units is increased on-site; however, Stanislaus County has adopted a Right-to-Farm Ordinance (§9.32.050) which states that inconveniences associated with agricultural operations, such as noise, odors, flies, dust, or fumes shall not be considered to be a nuisance if agricultural operations are consistent with accepted customs and standards. The site itself is impacted by noise generated by vehicular traffic on Langworth Road and Central Valley Ag Grinding operating on the adjacent parcel to the west. Moreover, operating hours are limited to 3:20 a.m. to 9:00 a.m. and 3:20 p.m. to 9:00 p.m. daily.

The site is not located within an airport land use plan.

**Mitigation:** None.

**References:** Stanislaus County Code; Stanislaus County General Plan and Support Documentation.<sup>1</sup>

<b>XIV. POPULATION AND HOUSING -- Would the project:</b>	<b>Potentially Significant Impact</b>	<b>Less Than Significant With Mitigation Included</b>	<b>Less Than Significant Impact</b>	<b>No Impact</b>
<b>a) Induce substantial unplanned population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)?</b>			<b>X</b>	
<b>b) Displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere?</b>				<b>X</b>

**Discussion:** The site is not included in the vacant sites inventory for the 2016 Stanislaus County Housing Element, which covers the 5<sup>th</sup> Cycle Regional Housing Needs Allocation (RHNA) for the County and will therefore not impact the County's ability to meet their RHNA. No population growth will be induced nor will any existing housing be displaced as a result of this project. The project site is adjacent to large scale agricultural operations, and the nature of the use is considered consistent with the A-2 (General Agriculture) zoning district.

**Mitigation:** None.

**References:** Stanislaus County General Plan and Support Documentation.<sup>1</sup>

<b>XV. PUBLIC SERVICES --</b>	<b>Potentially Significant Impact</b>	<b>Less Than Significant With Mitigation Included</b>	<b>Less Than Significant Impact</b>	<b>No Impact</b>
<b>a) Would the project result in the substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for any of the public services:</b>				
<b>Fire protection?</b>			<b>X</b>	
<b>Police protection?</b>			<b>X</b>	
<b>Schools?</b>			<b>X</b>	
<b>Parks?</b>			<b>X</b>	
<b>Other public facilities?</b>			<b>X</b>	

**Discussion:** The County has adopted Public Facilities fees, as well as Fire Facility fees on behalf of the appropriate fire district, to address impacts to public services. No buildings are proposed as part of this project. However, should any construction occur on the property in the future, all adopted Public Facility fees will be required to be paid at the time of building permit issuance.

This project was circulated to all applicable school, fire, police, irrigation, and public works departments and districts during the early consultation referral period and no concerns were identified with regard to public services.

**Mitigation:** None.

**References:** Stanislaus County General Plan and Support Documentation.<sup>1</sup>

<b>XVI. RECREATION --</b>	<b>Potentially Significant Impact</b>	<b>Less Than Significant With Mitigation Included</b>	<b>Less Than Significant Impact</b>	<b>No Impact</b>
a) Would the project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?				X
b) Does the project include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment?				X

**Discussion:** This project will not increase demands for recreational facilities, as such impacts typically are associated with residential development.

**Mitigation:** None.

**References:** Stanislaus County General Plan and Support Documentation.<sup>1</sup>

<b>XVII. TRANSPORTATION-- Would the project:</b>	<b>Potentially Significant Impact</b>	<b>Less Than Significant With Mitigation Included</b>	<b>Less Than Significant Impact</b>	<b>No Impact</b>
a) Conflict with a program plan, ordinance or policy addressing the circulation system, including transit, roadway, bicycle and pedestrian facilities?			X	
b) Would the project conflict or be inconsistent with CEQA Guidelines section 15064.3, subdivision (b)?			X	
c) Substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?			X	
d) Result in inadequate emergency access?			X	

**Discussion:** 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.

This project was referred to the City of Riverbank and the California Department of Transportation (Caltrans), both of which had no comments regarding the proposed project.

The project was referred to the Stanislaus County Department of Public Works, which has requested conditions of approval to address driveway approaches installed according to Public Works' Standards and Specifications, restrictions on loading, parking, unloading within the County right-of-way, the need for an irrevocable offer of dedication, and a grading, drainage, and sediment management plan.

Significant impacts to traffic and transportation were not identified by reviewing agencies. According to the application, the expansion will not result in an increase of employees. Furthermore, the applicant anticipates that average daily trips will remain the same at four. Trips that occur on a per-weekly basis are anticipated to increase from six to 10 and monthly trips are proposed to decrease from 10 to three. The overall trip changes per month are anticipated to increase slightly from 160 to 169, with seasonal trips, like fertilizer and manure hauling services, being called as needed. The existing facility has direct access onto County-maintained Langworth Road via two unpaved driveways. The size of the parcel is large enough to offer adequate on-site parking opportunities.

**Mitigation:** None.

**References:** Referral response from Public Works dated May 28, 2019; application materials; Stanislaus County General Plan and Support Documentation.<sup>1</sup>

<b>XIX. UTILITIES AND SERVICE SYSTEMS -- Would the project:</b>	<b>Potentially Significant Impact</b>	<b>Less Than Significant With Mitigation Included</b>	<b>Less Than Significant Impact</b>	<b>No Impact</b>
<b>a) Require or result in the relocation or construction of new or expanded water, wastewater treatment or storm water drainage, electric power, natural gas, or telecommunications facilities, the construction or relocation of which could cause significant environmental effects?</b>			X	
<b>b) Have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry and multiple dry years?</b>			X	
<b>c) Result in a determination by the wastewater treatment provider which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?</b>			X	
<b>d) Generate solid waste in excess of State or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals?</b>			X	
<b>e) Comply with federal, state, and local management and reduction statutes and regulations related to solid waste?</b>			X	

**Discussion:** The Department of Public Works will review and approve grading and drainage plans prior to construction. Conditions of approval will be added to the project to reflect this requirement. The project was also referred to PG&E, Oakdale Irrigation District, and AT&T and no response was received to date.

Limitations on providing services have not been identified. The project proposes to utilize a private domestic well and private septic systems for water and wastewater service. After submittal for this herd expansion request, the applicant applied for and was approved for a second mobile home for a full-time employee (Temporary Mobile Home Permit No. 2004-34 – Oct) bringing the site housing total to five dwellings for a total of five connections to the existing well. During the project's Early Consultation referral period, DER, via the Environmental Review Committee, identified the site's water supply as therefore qualifying as a State Small Water System as its water source, and the project's well proposes to continue to serve as the source for the project site. DER regulates the issuance of new well permits. A condition of approval will be added to the project to further ensure state and local standards are being met for bringing the site into compliance with State Small Water System standards, requiring submittal of an application and the associated technical report to DER for a water supply permit, prior to receiving occupancy of any building permit. A more detailed discussion of the requirements for a State Small Water System is provided in the Hydrology and Water Quality Section of this Initial Study.

No new septic systems are proposed for this expansion; installation of any future septic systems must be reviewed and approved by the DER and must adhere to current Local Agency Management Program (LAMP) standards. LAMP standards include minimum setbacks from wells to prevent negative impacts to groundwater quality.

**Mitigation:** None.

**References:** Referral response from Public Works, dated May 28, 2019; Referral response from the Environmental Review Committee, dated April 30, 2019 and as amended May 8, 2019; County General Plan and Support Documentation.<sup>1</sup>

<b>XX. WILDFIRE – If located in or near state responsibility areas or lands classified as very high fire hazard severity zones, would the project:</b>	<b>Potentially Significant Impact</b>	<b>Less Than Significant With Mitigation Included</b>	<b>Less Than Significant Impact</b>	<b>No Impact</b>
a) Substantially impair an adopted emergency response plan or emergency evacuation plan?			X	
b) Due to slope, prevailing winds, and other factors, exacerbate wildfire risks, and thereby expose project occupants to, pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire?			X	
c) Require the installation of maintenance of associated infrastructure (such as roads, fuel breaks, emergency water sources, power lines or other utilities) that may exacerbate fire risk or that may result in temporary or ongoing impacts to the environment?			X	
d) Expose people or structures to significant risks, including downslope or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes?			X	

**Discussion:** The project site is in a non-urbanized area with no wildlands located in the vicinity of the project site. The project is served by Oakdale Rural Fire Protection District, who provided no comments on the project to date. In addition, the project site is not located within a designated high or very high fire hazard severity zone, near State responsibility areas, or lands classified as very high fire hazard severity zones. No significant impacts to the project site's or surrounding environment's wildfire risk as a result of this project are anticipated.

**Mitigation:** None.

**References:** Stanislaus County General Plan and Support Documentation.<sup>1</sup>

<b>XXI. MANDATORY FINDINGS OF SIGNIFICANCE --</b>	<b>Potentially Significant Impact</b>	<b>Less Than Significant With Mitigation Included</b>	<b>Less Than Significant Impact</b>	<b>No Impact</b>
a) Does the project have the potential to substantially degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, substantially reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory?			X	
b) Does the project have impacts that are individually limited, but cumulatively considerable? ("Cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects.)			X	
c) Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?			X	

**Discussion:** Review of this project has not indicated any features which might significantly impact the environmental quality of the site and/or the surrounding area. The project is an existing use with no expansion in footprint or construction proposed. Unrelated existing dairies are scattered in all directions from the project site. Central Valley Ag Grinding (CVAG), operating under Use Permit No. 2010-06 just across Langworth Road from the project site. As CVAG is operating under a discretionary permit, additional CEQA review will be required at the time that it expands. The project was referred to responsible and trustee agencies and no comments have been received with respect to the project's potential to substantially degrade, reduce, or endanger wildlife species, nor does it appear the project will have environmental effects which will cause substantial adverse effects on human life. With conditions of approval in place, the project will have a less than significant impact to wildlife and human beings. Any future expansion, reorganization, or modification to the dairy facility will require review by the Regional Water Quality Control Board and additional CEQA-compliance as applicable. Therefore, it is not anticipated that this project will have considerable cumulative impacts.

**Mitigation:** None.

**References:** Application materials; Initial Study; Stanislaus County General Plan and Support Documentation.<sup>1</sup>

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<sup>1</sup>Stanislaus County General Plan and Support Documentation adopted in August 23, 2016, as amended. **Housing Element** adopted on April 5, 2016.

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July 1, 2010 deadline

**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 (15-24 mo.)	Bred Heifers (7-14 mo.)	Calves (4-6 mo.)	Calves (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 (tons)	Density (lbs/cu. ft.)	Applied Separation Efficiency (default)	Solids to Pond (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 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 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 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

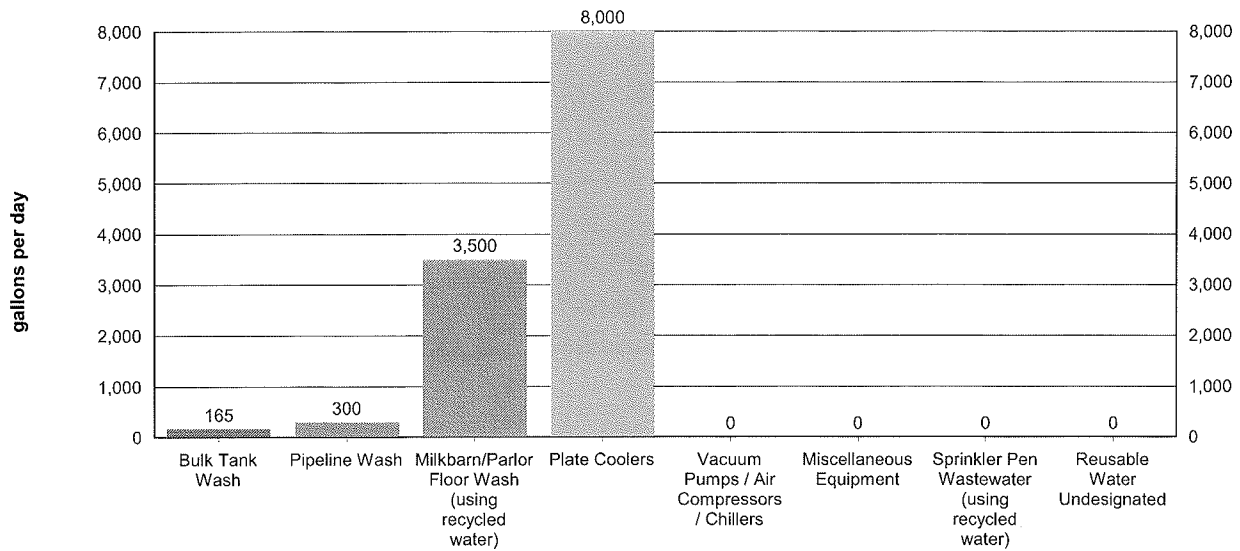
Fresh flush water for storage period: \_\_\_\_\_ 0 gallons/storage period



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CHARTS

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



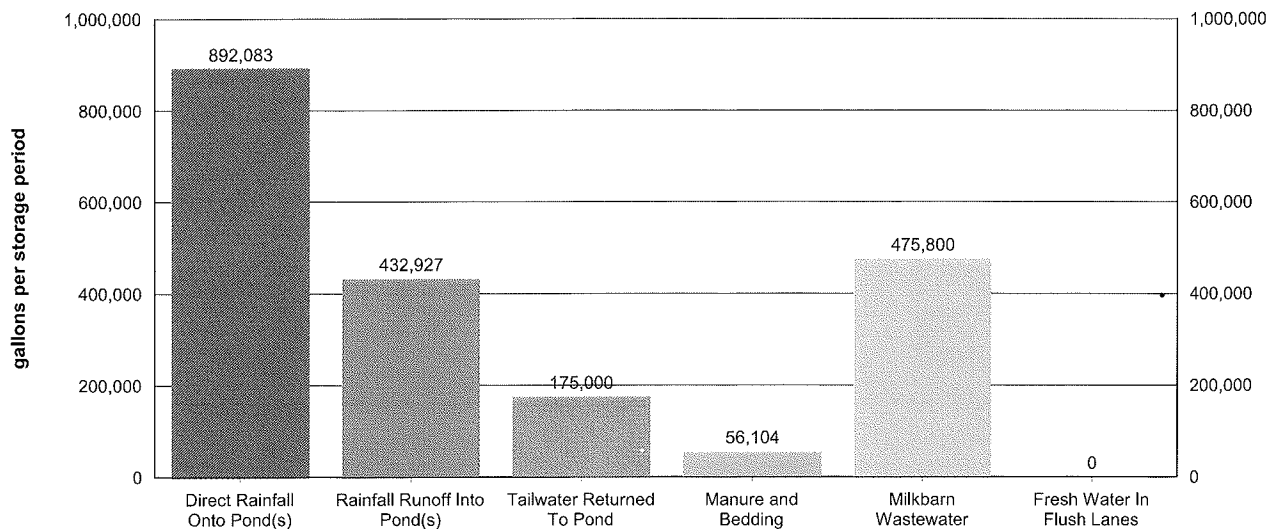
*Values shown in chart are approximate values per day.*

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)**

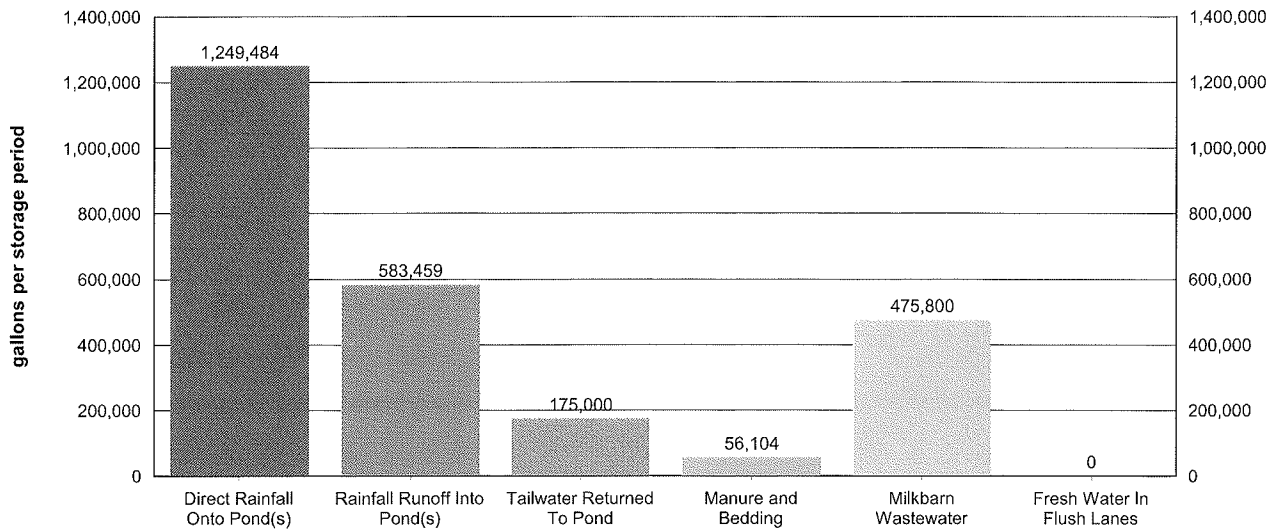


*Values shown in chart are approximate values for storage period.*

Storage period:	<u>120 days</u>
Total process wastewater generated daily:	<u>16,933 gallons/day</u>
Total process wastewater generated per period:	<u>2,031,914 gallons/storage period</u>
Total process wastewater removed due to evaporation:	<u>1,110,418 gallons/storage period</u>
Total storage capacity required:	<u>921,496 gallons</u>
	<u>123,186 cu. ft.</u>
Existing storage capacity (adjusted for dead storage loss):	<u>6,116,955 gallons</u>
	<u>817,718 cu. ft.</u>
 <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)**



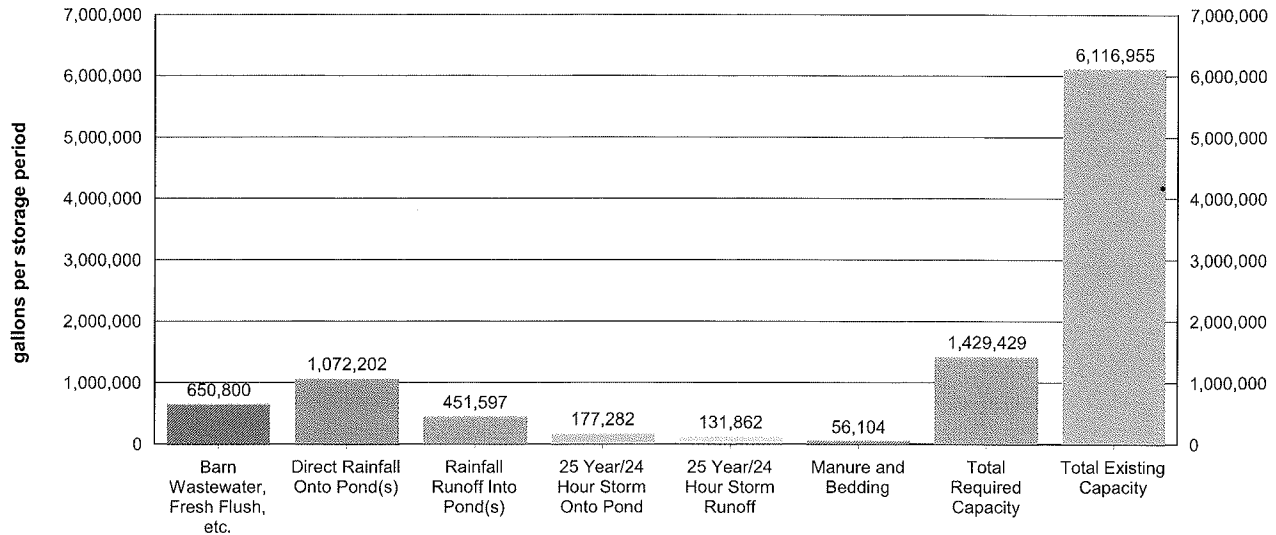
*Values shown in chart are approximate values for storage period.*

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

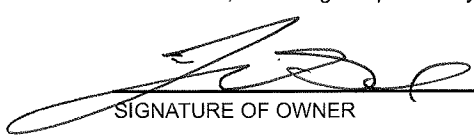

(209) 263-1382

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

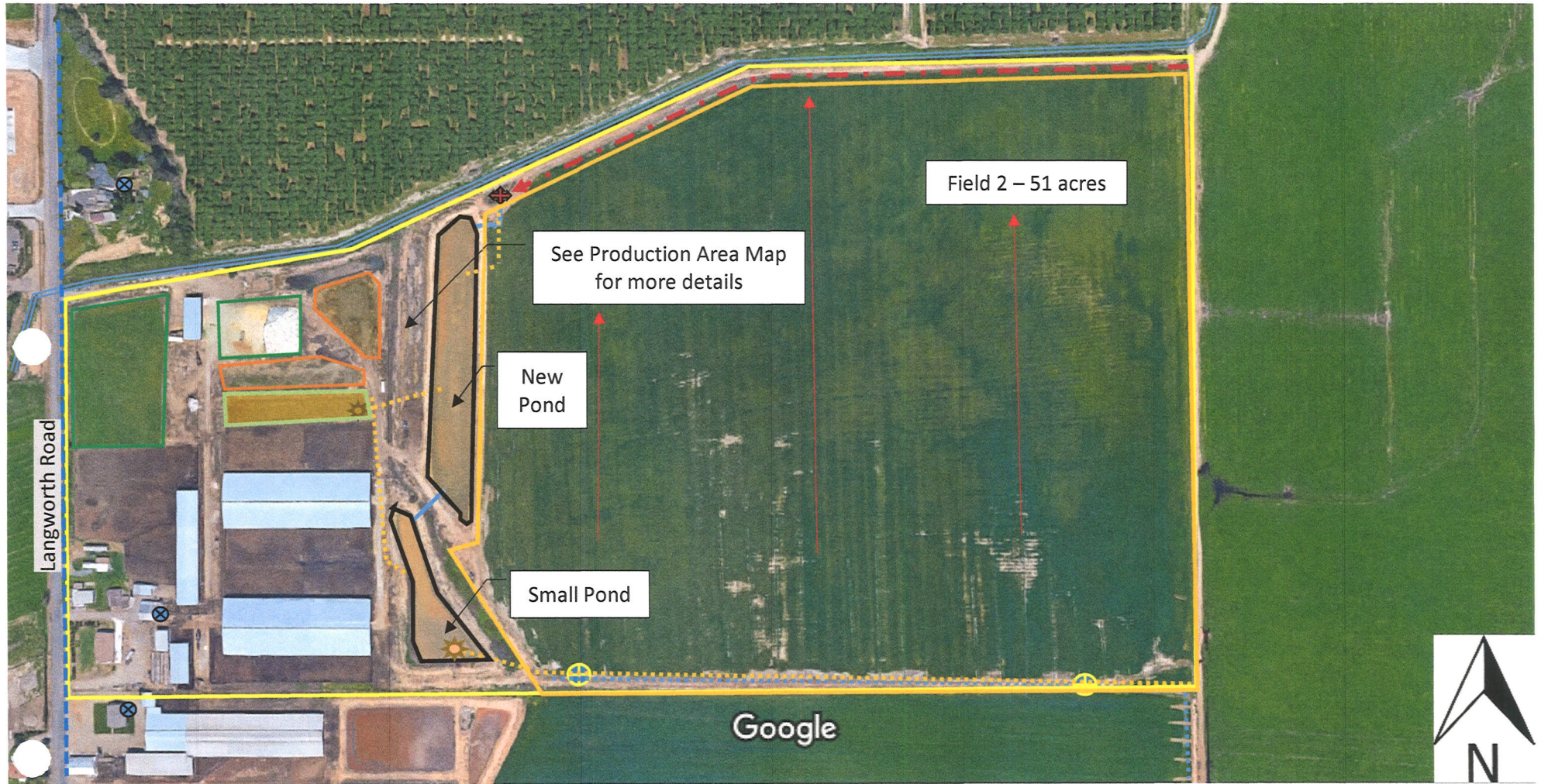
12/12/18

DATE

DATE



# LAND APPLICATION MAP



## LEGEND

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	

SCALE 410 ft

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

**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.



# 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.

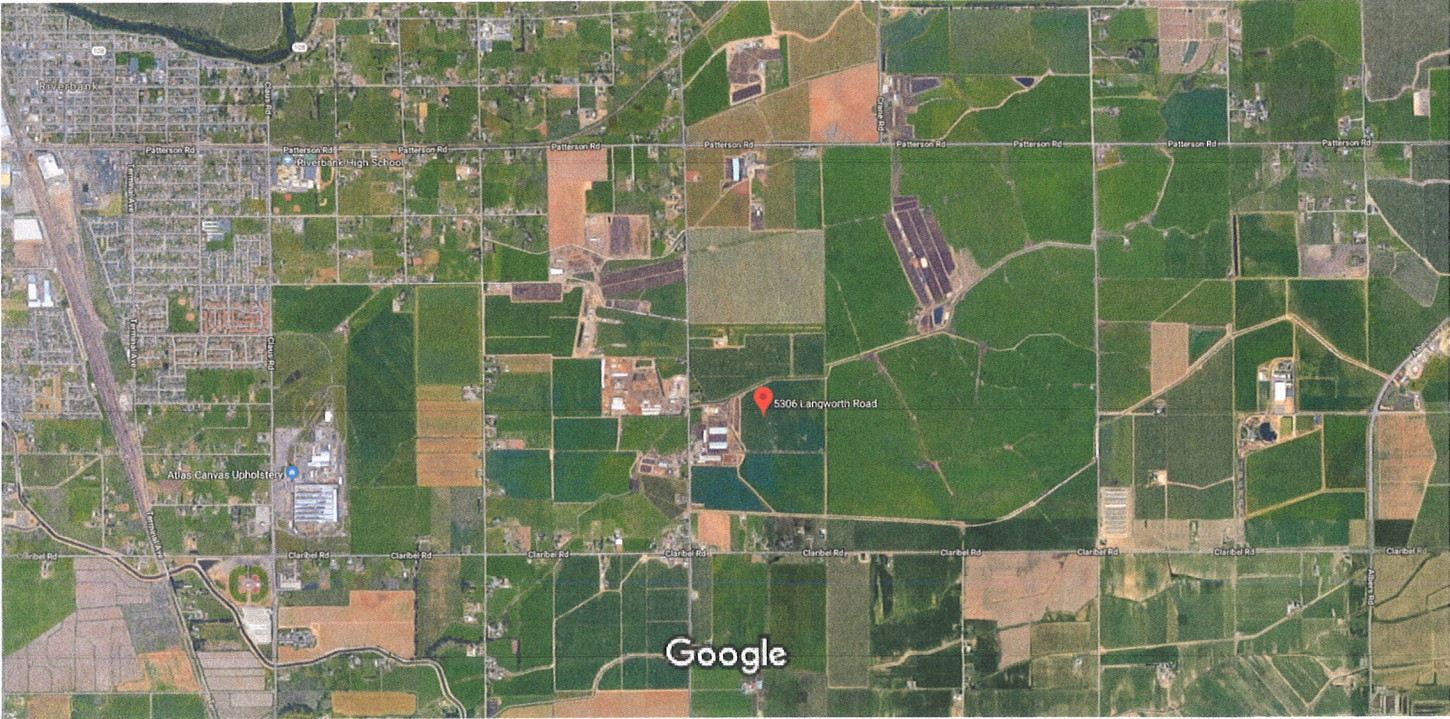
Dairy: Langworth Dairy  
5306 Langworth Road  
Oakdale, CA 95361

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

SCALE 345 ft





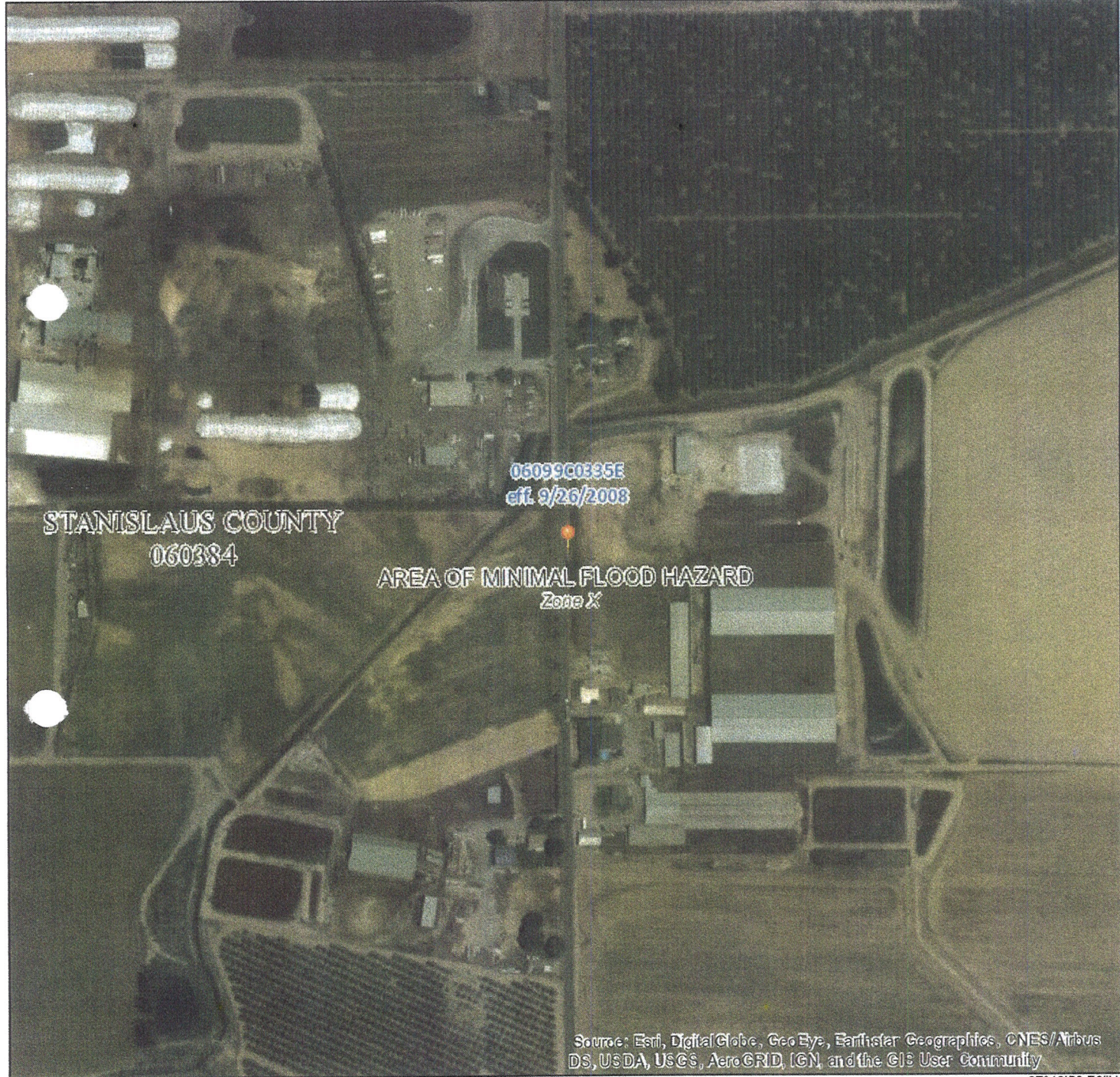




# National Flood Hazard Layer FIRMette



37°43'19.25"N



### Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth
		Regulatory Floodway Zone AE, AO, AH, VE, AF
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Area of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone 3
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
GENERAL STRUCTURES		Area of Undetermined Flood Hazard Zone
		Channel, Culvert, or Storm Sewer
OTHER FEATURES		Levee, Dike, or Floodwall
		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5 Cross Sections with 1% Annual Chance Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped

N

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The base map shown complies with FEMA's base map accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 4/16/2018 at 9:15:44 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: base map imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.



Langworth Dairy  
 Jose & Maria Silva  
 5306 Langworth Rd.  
 Oakdale, CA 95361

32

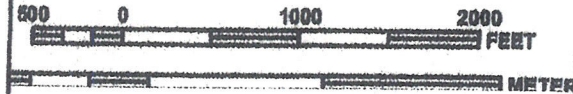
ZONE X

Cavill

5

LANGWORTH RD

MAP SCALE 1" = 1000'



NFIP

PANEL 0335E

**FIRM**

FLOOD INSURANCE RATE MAP  
 STANISLAUS COUNTY,  
 CALIFORNIA  
 AND INCORPORATED AREAS

PANEL 335 OF 1075

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

**CONTAINS:**

COMMUNITY	NUMBER	PANEL	SUFFIX
MODESTO, CITY OF	000307	0335	E
OAKDALE, CITY OF	000309	0335	E
RIVERBANK, CITY OF	000301	0335	E
STANISLAUS COUNTY	000304	0335	E

Notice to User: The Map Number shown below should be used when placing map orders; the Community Number shown above should be used on insurance applications for the subject community.

MAP NUMBER  
 06099C0335E

EFFECTIVE DATE  
 SEPTEMBER 26, 2008



Federal Emergency Management Agency

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at [www.mec.fema.gov](http://www.mec.fema.gov)

## Setbacks, Buffers and Other Alternatives to Protect Surface Waters

CDQAP - WDR General  
Order Reference Binder  
TAB 6.8, Version 2-29-08

### DAIRY FACILITY INFORMATION

Name of Dairy Facility: Langworth Dairy  
Physical Address of Dairy Facility:  
\_5306 Langworth Rd. Oakdale Stanislaus 95361  
Number and Street City County Zip Code  
Name of Operator: Jose and Maria Silva Phone Number: (209) 735-1858  
Date: 5/24/2010

Land Application Area within 100 ft. of a Surface Water or a Conduit to Surface Water. <i>(List each land application area; use same names used on maps of the dairy facility &amp; cropland.) [GO Nutrient Management Plan (Attachment C Part IV.B, page C-5)]</i>	Potential Surface Water or Conduit to Surface Water <i>(Use same names for surface water bodies or wells as used on facility maps) [GO Nutrient Management Plan (Attachment C Part IV.A, page C-4)]</i>	Describe setback, vegetated buffer, physical barrier or other alternative practice implemented to protect surface water.
Field 2	Calvill Drain	This is not used or accessed by the dairy for tailwater return. The ditch has a vegetative berm and is raised higher than the fields' elevations with an earthen access road. Tailwater return is separate and at the Northwest corner of Field 2.

**Nutrient Management Plan Report**  
General Order No. R5-2007-0035, Attachment C  
July 1, 2009 deadline

**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  
July 1, 2009 deadline

**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 (15-24 mo.)	Heifers (7-14 mo. to breeding)	Calves (4-6 mo.)	Calves (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 (mg/L)	Phosphorus (mg/L)	Potassium (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 (as P2O5)	Potassium (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

**Nutrient Management Plan Report**  
General Order No. R5-2007-0035, Attachment C  
July 1, 2009 deadline

**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

**Nutrient Management Plan Report**  
General Order No. R5-2007-0035, Attachment C  
July 1, 2009 deadline

**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	

**Nutrient Management Plan Report**  
General Order No. R5-2007-0035, Attachment C  
July 1, 2009 deadline

**NUTRIENT BUDGET**

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

Activity / Event	# of Events	N (lbs/acre) % avail.	P (lbs/acre) % avail.	K (lbs/acre) % 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) % avail.	P (lbs/acre) % avail.	K (lbs/acre) % 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					



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

Activity / Event	# of Events	N (lbs/acre) % avail.	P (lbs/acre) % avail.	K (lbs/acre) % avail.	Total N (lbs/acre)
Pre-irrigation prior to planting (no fertilizer)	1	0.0	0.0	0.0	2.6
<i>Nutrient source:</i> Water only					
<i>Application method:</i> 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
<i>Nutrient source:</i> Water only					
<i>Application method:</i> 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
<i>Nutrient source:</i> Retention pond (lagoon)					
<i>Application method:</i> 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		

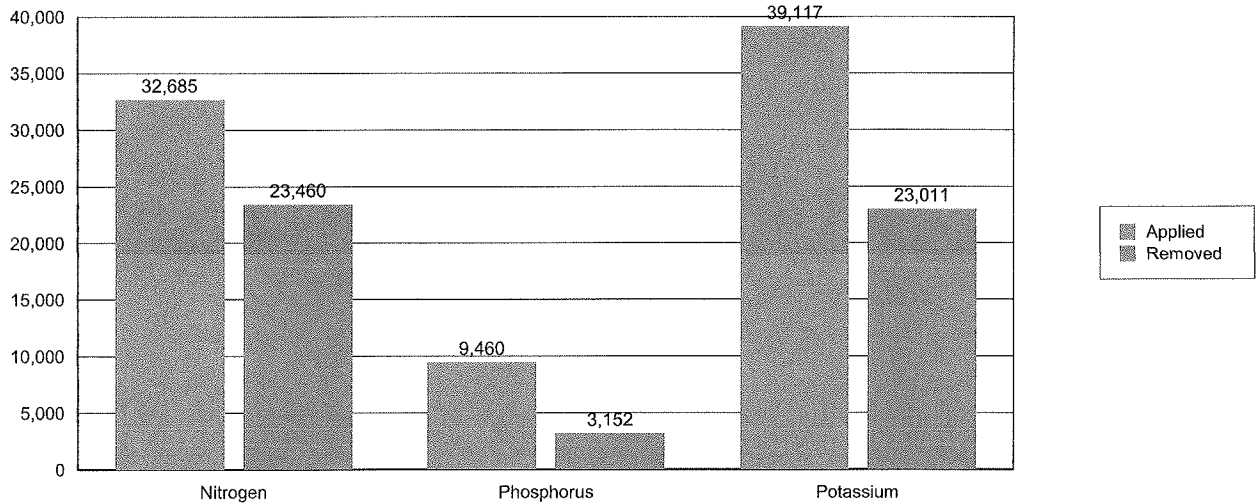
	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)
Irrigation sources	19.5	0.0	0.0
Existing soil nutrient content	0.0	96.0	0.0
Plowdown credit	0.0	0.0	0.0
Commercial fertilizer	0.0	0.0	0.0
Dry manure	0.0	0.0	0.0
Liquid manure	320.0	11.5	420.9
Other	0.0	0.0	0.0
Atmospheric deposition	9.3		
Nutrients 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

**Nutrient Management Plan Report**  
General Order No. R5-2007-0035, Attachment C  
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**NUTRIENT APPLICATIONS, POTENTIAL REMOVAL, AND BALANCE**

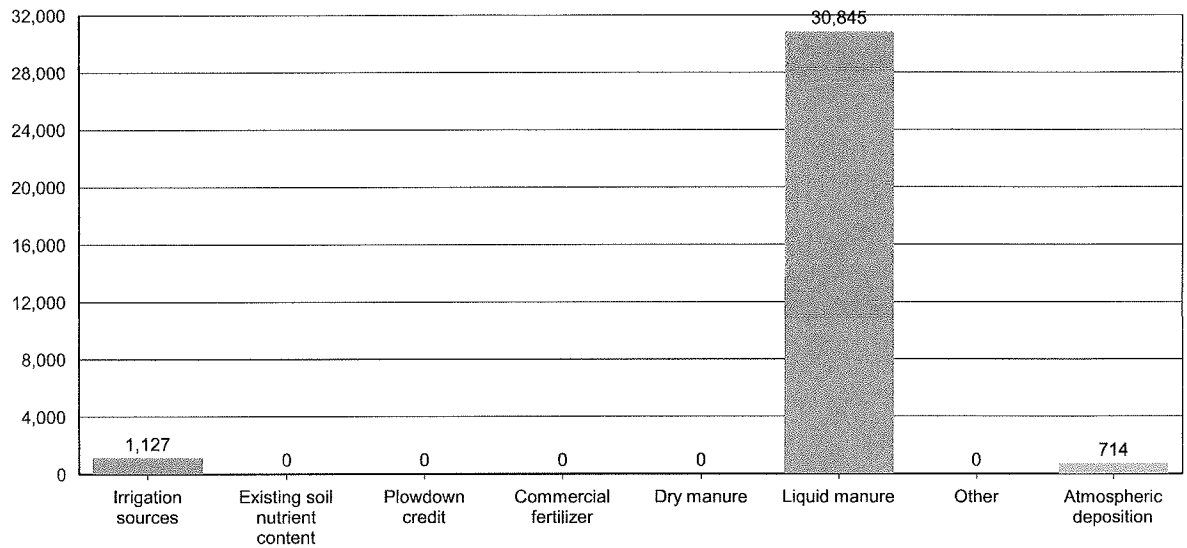
**A. POUNDS OF NUTRIENT APPLIED VS. CROP REMOVAL POTENTIAL**



	Total N (lbs)	Total P (lbs)	Total K (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

**Nutrient Management Plan Report**  
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July 1, 2009 deadline

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



	Total N (lbs)	Total P (lbs)	Total K (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

**Nutrient Management Plan Report**  
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July 1, 2009 deadline

**NUTRIENT BALANCE**

**A. WHOLE FARM BALANCE**

	Total N (lbs)	Total P (lbs)	Total K (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.

**Nutrient Management Plan Report**  
General Order No. R5-2007-0035, Attachment C  
July 1, 2009 deadline

**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>	

**Nutrient Management Plan Report**  
General Order No. R5-2007-0035, Attachment C  
July 1, 2009 deadline

**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).



**Nutrient Management Plan Report**  
General Order No. R5-2007-0035, Attachment C  
July 1, 2009 deadline

**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

**Nutrient Management Plan Report**  
General Order No. R5-2007-0035, Attachment C  
July 1, 2009 deadline

**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**  
General Order No. R5-2007-0035, Attachment C  
July 1, 2009 deadline

**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**  
General Order No. R5-2007-0035, Attachment C  
July 1, 2009 deadline

**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

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

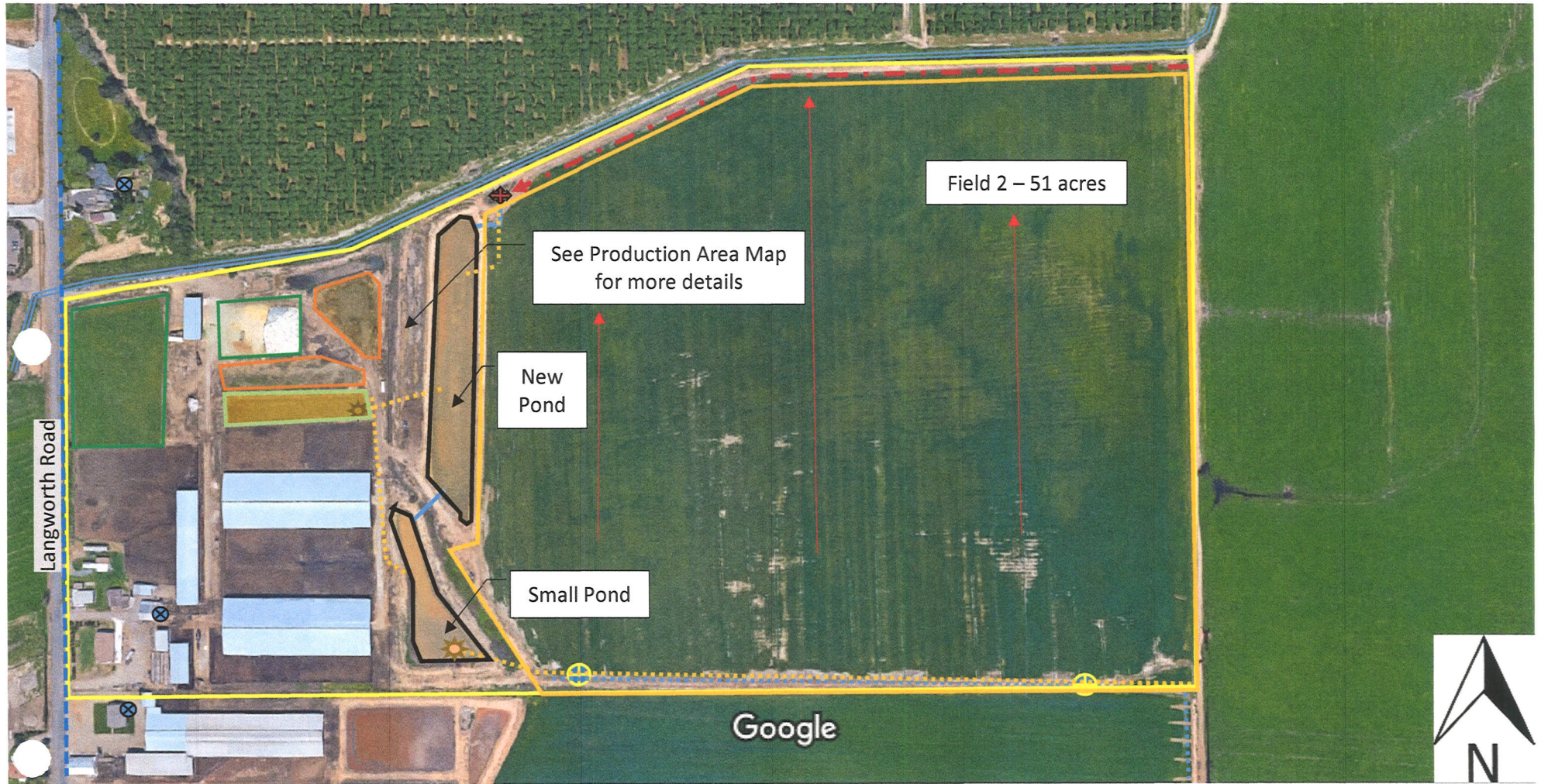
PRINT OR TYPE NAME

DATE

DATE



# LAND APPLICATION MAP



## LEGEND

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	

SCALE 410 ft

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

**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.



# 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  
Oakdale, CA 95361

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SCALE 345 ft





