

DEPARTMENT OF PLANNING AND COMMUNITY DEVELOPMENT

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

Referral Early Consultation

Date: December 10, 2020

To: Distribution List (See Attachment A)

From: Emily Basnight, Assistant Planner Planning and Community Development

Subject: USE PERMIT APPLICATION NO. PLN2020-0081 – AHLEM FARMS JERSEYS

Respond By: December 28, 2020

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

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

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

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

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

Applicant: Manuel Azevedo dba Ahlem Farms Jerseys

Project Location: 825 Ruble Road, between Crows Landing Road and S. Carpenter Road,

between the Cities of Patterson and Turlock.

APN: 058-003-007, 058-003-008, 058-004-012 & 058-004-015

Williamson Act

Contract: 73-1535, 99-4400 & 77-2877

General Plan: Agriculture

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

Project Description: Request to expand the herd of an existing dairy facility located on four parcels across a total of 79± acres, in the A-2-40 (General Agriculture) zoning district. The applicant proposes to expand the herd from 1,305 to 2,500 mature cows, an increase of 1,090 milk and 105 dry cows; and to increase support stock numbers from 1,007 to 2,250, which includes an increase of 371 heifers 15-24 months old, 589 heifers 7-14 months, and 147 additional calves 4-6 months old, and 136 calves 0-3 months. Additionally, the applicant proposes to construct two freestall barns totaling 48,624± square feet, and a new 2.8± acre covered digester pond. The applicant anticipates an increase of 1,900 cubic feet of additional manure per day generated on the facility from the proposed herd expansion. Nutrients produced from the herd will be utilized to fertilize approximately 175± acres of irrigated cropland on parcels located to the west of the project site, which are also owned by the applicant. Hours of operation are 24-hours a day, seven days a week. There are currently two single-family dwellings on-site which are occupied by employees and their families. The proposed request is expected to increase the number of employees by two for a total

of four employees on a maximum shift, which will increase the number of total employee trips by two per day. No additional housing is proposed as part of this request; the two additional employees will not live on-site. The applicant estimates one customer/visitor on-site per day. The proposed request is expected to increase the number of truck trips by two for a total of four truck trips per day. The existing facility is currently improved with 285,190± square feet of dairy and residential building space and 32± acres of corrals, storage ponds, and feed storage. The site is served by private wells and septic system and has access to County-maintained Ruble Road. Confined Animal Facilities (CAF), which include dairies, are considered to be permitted agricultural uses; however, a use permit is required for new or expanding CAFs requiring a new or modified permit waiver, order, or Waste Discharge Requirements (WDRs) from the Regional Water Quality Control Board (RWQCB), where the issuance of such permit, waiver, order, or WDR requires compliance with the California Environmental Quality Act (CEQA) (Section 21.20.030 (F) of the Stanislaus County Zoning Code). The County adopted the use permit requirement in 2003 in order to allow the County to facilitate the environmental review (in accordance with CEQA) required for issuance of any permit, waiver, order, or WDR by the RWQCB.

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. PLN2020-0081 - AHLEM FARMS JERSEYS

Attachment A

Distribution List

Distri	bution List		
Х	CA DEPT OF CONSERVATION Land Resources		STAN CO ALUC
Х	CA DEPT OF FISH & WILDLIFE		STAN CO ANIMAL SERVICES
	CA DEPT OF FORESTRY (CAL FIRE)	Χ	STAN CO BUILDING PERMITS DIVISION
Χ	CA DEPT OF TRANSPORTATION DIST 10	Χ	STAN CO CEO
Χ	CA OPR STATE CLEARINGHOUSE		STAN CO CSA
Χ	CA RWQCB CENTRAL VALLEY REGION	Х	STAN CO DER
	CA STATE LANDS COMMISSION	Χ	STAN CO ERC
	CEMETERY DISTRICT	Х	STAN CO FARM BUREAU
	CENTRAL VALLEY FLOOD PROTECTION	Х	STAN CO HAZARDOUS MATERIALS
	CITY OF:	Х	STAN CO MILK & DAIRY
	COMMUNITY SERVICES DIST:		STAN CO PARKS & RECREATION
Х	COOPERATIVE EXTENSION	Х	STAN CO PUBLIC WORKS
	COUNTY OF:		STAN CO RISK MANAGEMENT
Х	DER GROUNDWATER RESOURCES DIVISION	Х	STAN CO SHERIFF
Х	FIRE PROTECTION DIST: MOUNTAIN VIEW	Х	STAN CO SUPERVISOR DIST 2: CHIESA
Х	GSA: WEST TURLOCK SUBBASIN	Х	STAN COUNTY COUNSEL
	HOSPITAL DIST:		StanCOG
Х	IRRIGATION DIST: TURLOCK	Х	STANISLAUS FIRE PREVENTION BUREAU
Х	MOSQUITO DIST: TURLOCK		STANISLAUS LAFCO
Х	MOUNTAIN VALLEY EMERGENCY MEDICAL SERVICES	Х	STATE OF CA SWRCB DIVISION OF DRINKING WATER DIST. 10
	MUNICIPAL ADVISORY COUNCIL:		SURROUNDING LAND OWNERS
Χ	PACIFIC GAS & ELECTRIC	Х	TELEPHONE COMPANY: AT&T
	POSTMASTER:		TRIBAL CONTACTS (CA Government Code §65352.3)
	RAILROAD:		US ARMY CORPS OF ENGINEERS
Х	SAN JOAQUIN VALLEY APCD	Х	US FISH & WILDLIFE
Х	SCHOOL DIST 1: CHATOM UNION		US MILITARY (SB 1462) (7 agencies)
Х	SCHOOL DIST 2: TURLOCK UNIFIED		USDA NRCS
	WORKFORCE DEVELOPMENT		WATER DIST:
Х	STAN CO AG COMMISSIONER		
	TUOLUMNE RIVER TRUST		



TO:

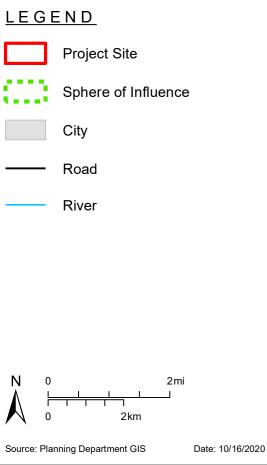
STANISLAUS COUNTY CEQA REFERRAL RESPONSE FORM

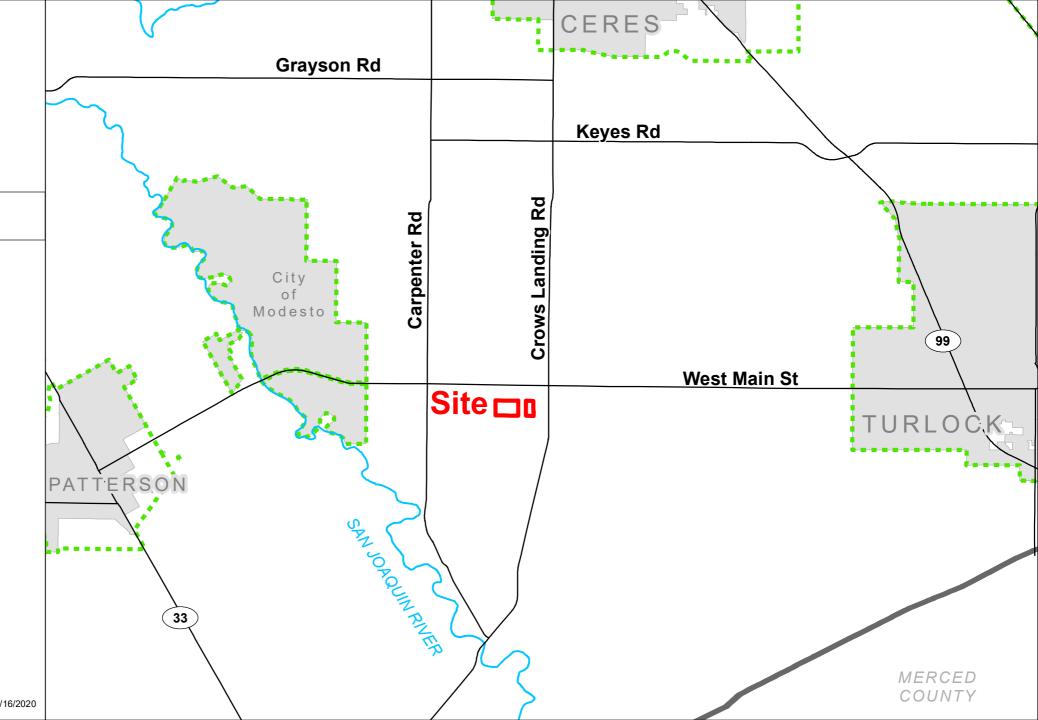
Stanislaus County Planning & Community Development

	1010 10 th Street, Suite 3400 Modesto, CA 95354		
FROM:			
SUBJECT:	USE PERMIT APPLICATION NO. F	PLN2020-0081 – AHLEM FARMS JERS	EYS
Based on this project:	agency's particular field(s) of expe	ertise, it is our position the above desc	ribed
	Will not have a significant effect on May have a significant effect on the No Comments.		
	re specific impacts which support ou ypes, air quality, etc.) – (attach addit	ur determination (e.g., traffic general, car tional sheet if necessary)	rying
TO INCLUDE	WHEN THE MITIGATION OR CO	the above-listed impacts: PLEASE BE S ONDITION NEEDS TO BE IMPLEMEN UANCE OF A BUILDING PERMIT, ETC.	NTED
In addition, ou	agency has the following comments	s (attach additional sheets if necessary).	
Response pre	pared by:		
Name	Title	Date	

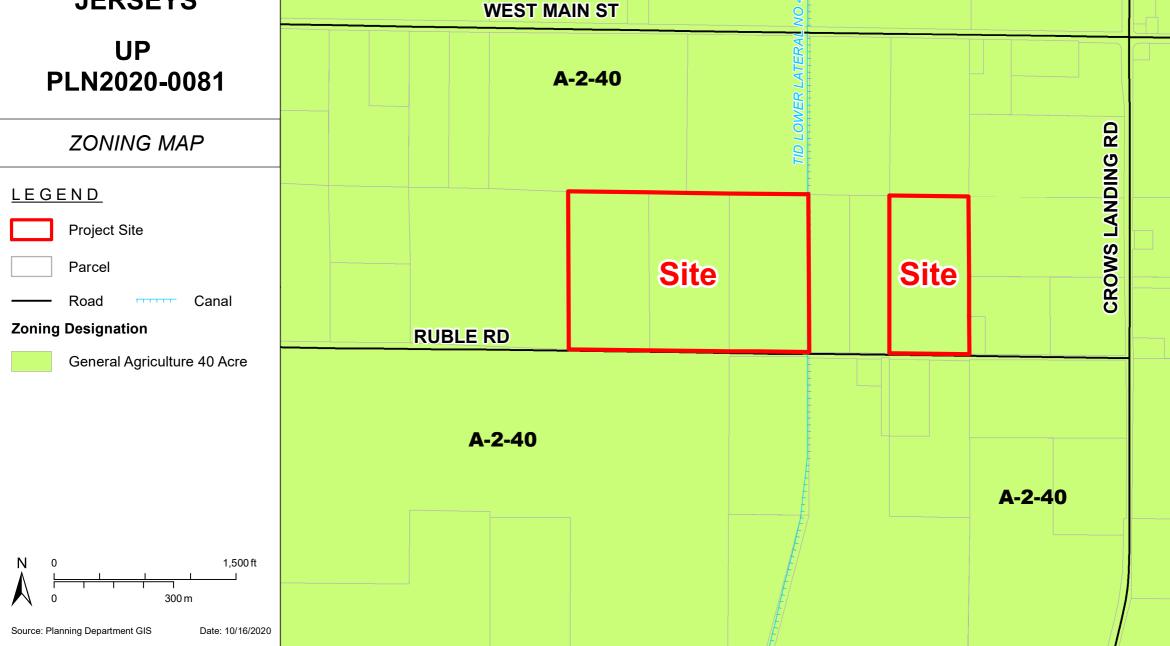
UP PLN2020-0081

AREA MAP





AHLEM FARMS AG **JERSEYS WEST MAIN ST** UP PLN2020-0081 AG **CROWS LANDING RD** GENERAL PLAN MAP LEGEND Project Site **Site Site** Parcel Road -----Canal **General Plan RUBLE RD** Agriculture AG **AG** 1,500 ft Source: Planning Department GIS Date: 10/16/2020



A-2-40



UP PLN2020-0081

2017 AERIAL AREA MAP

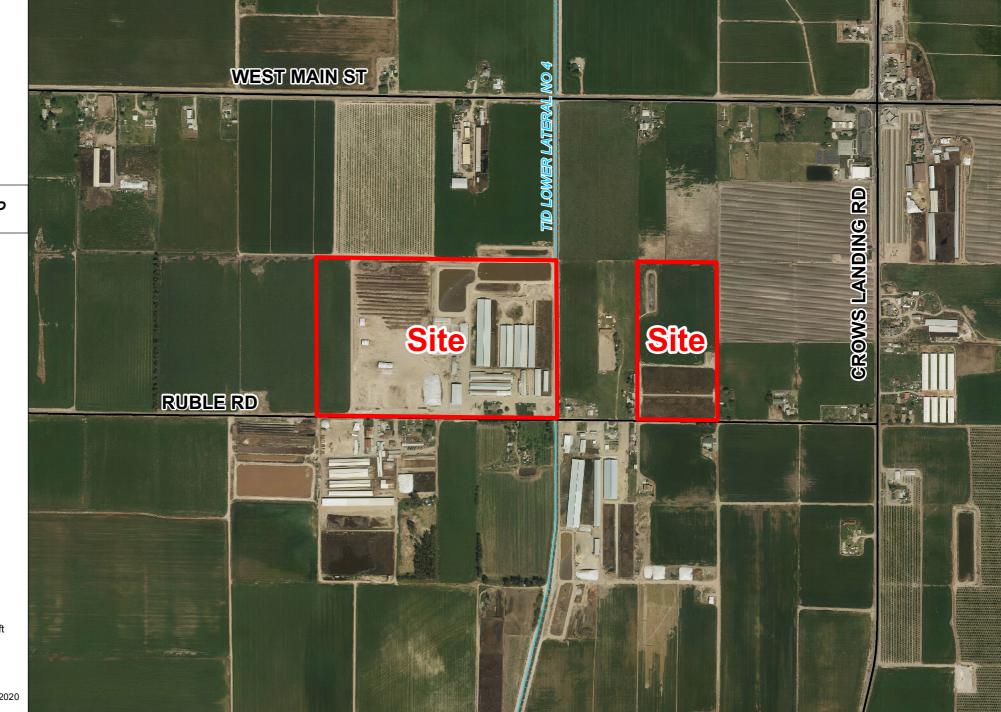
LEGEND

Project Site

— Road

.

Canal



N 0 1,500ft
0 300 m

Source: Planning Department GIS

Date: 10/16/2020

UP PLN2020-0081

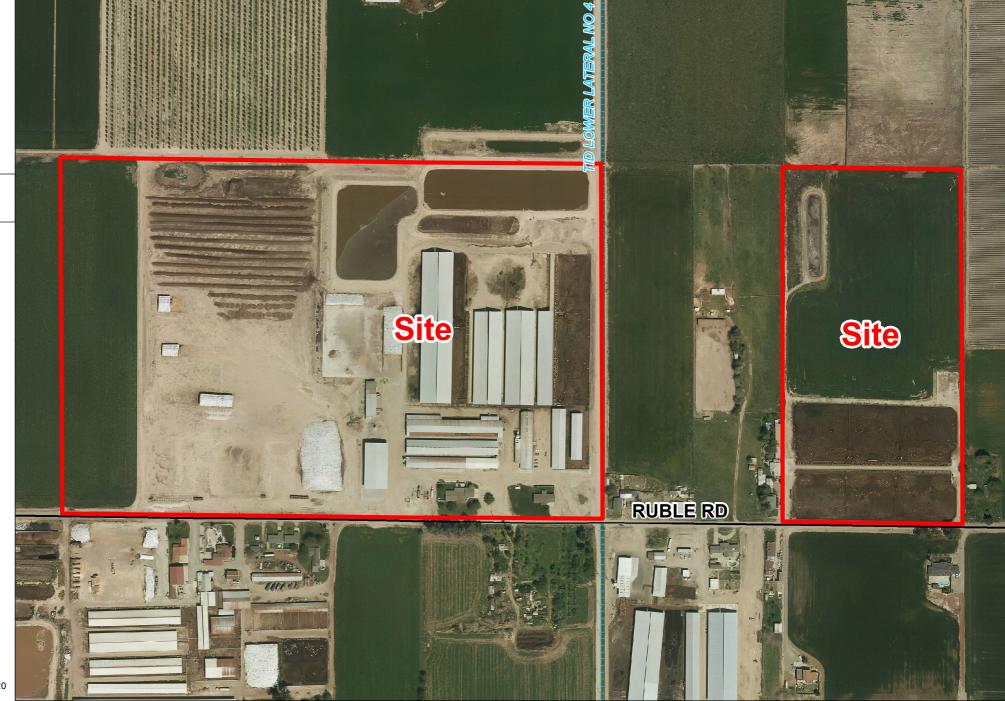
2017 AERIAL SITE MAP

<u>LEGEND</u>

Project Site

—— Road

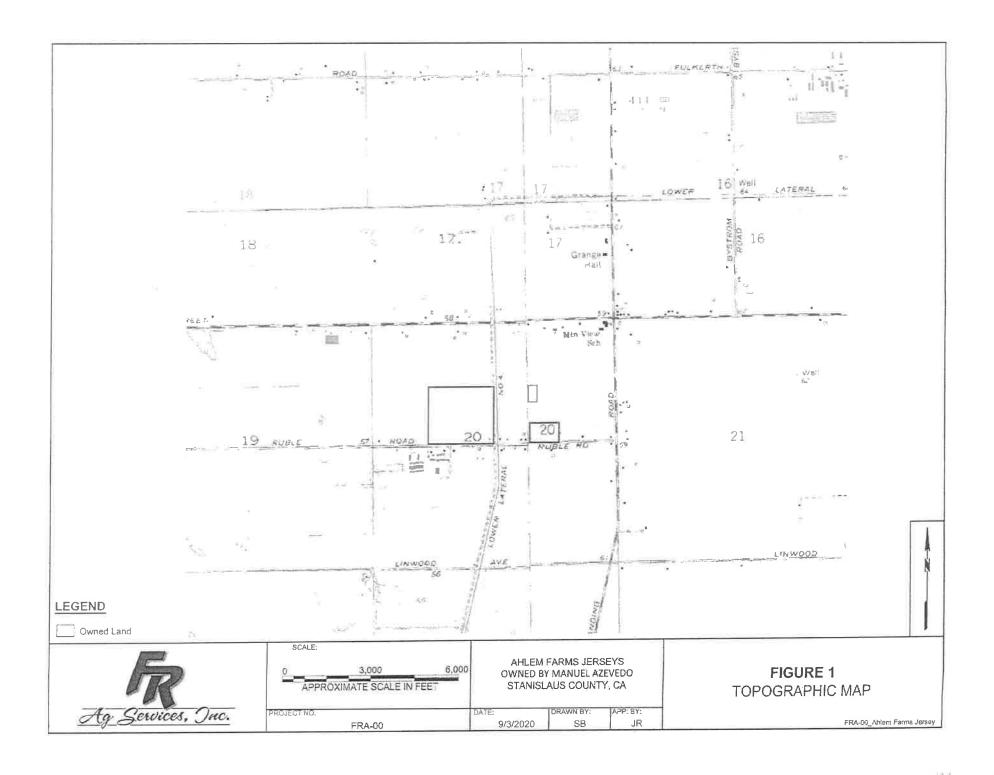
Canal

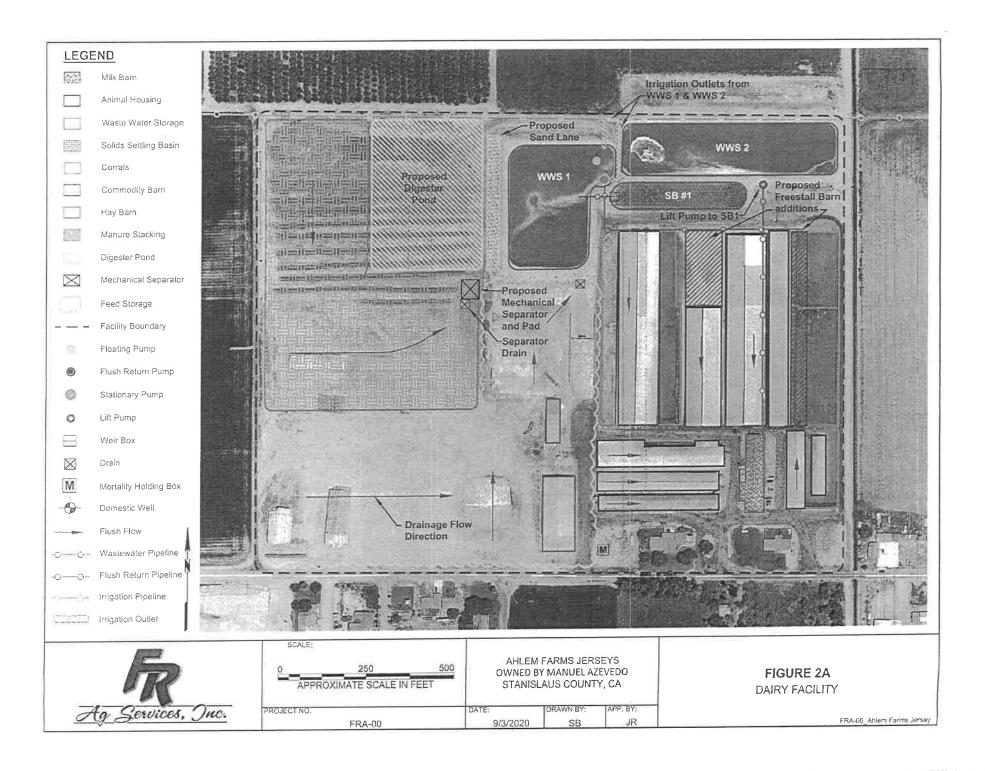


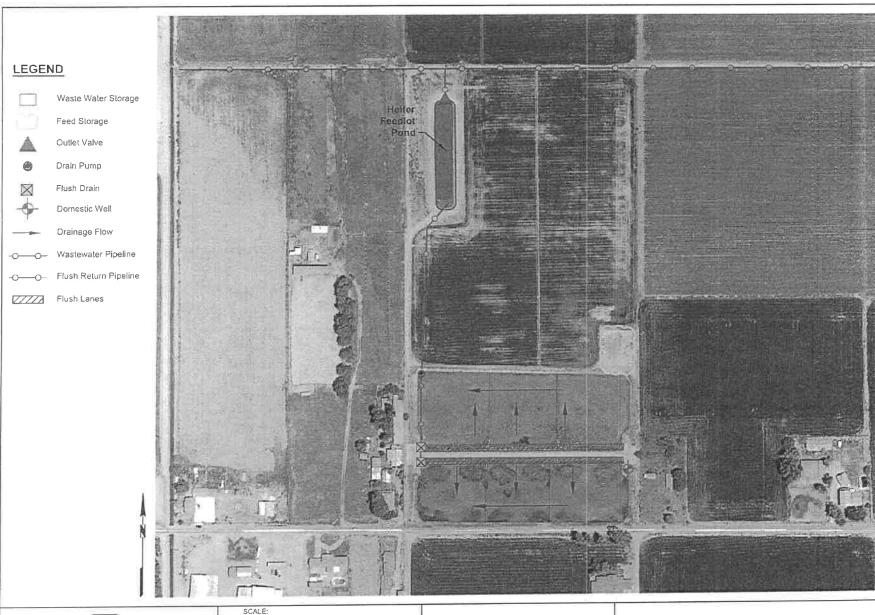
N 0 400 ft
0 100 m

Source: Planning Department GIS

Date: 10/16/2020







DATE:

Ag Services, Inc.

0 250 500 APPROXIMATE SCALE IN FEET

FRA-00

PROJECT NO.

AHLEM FARMS JERSEYS OWNED BY MANUEL AZEVEDO STANISLAUS COUNTY, CA

9/3/2020: DRAWN BY: APP. BY: 9/3/2020: SB JR

FIGURE 2B HEIFER FEEDLOT

FRA-00_Ahlem Farms Jersey



Field Boundary

Irrigation Pipeline

_____ Drain Pipeline

Irrigation Flow

Facility Boundary

Tailwater Pump

Inlet Storage

☑ Drain

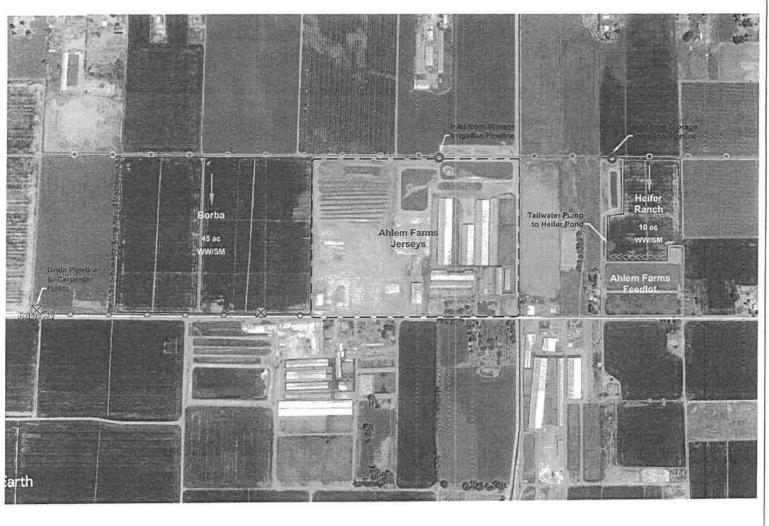
0

WW

>>> Tailwater

Wastewater

SM Solid Manure





0 600 1,200

APPROXIMATE SCALE IN FEET

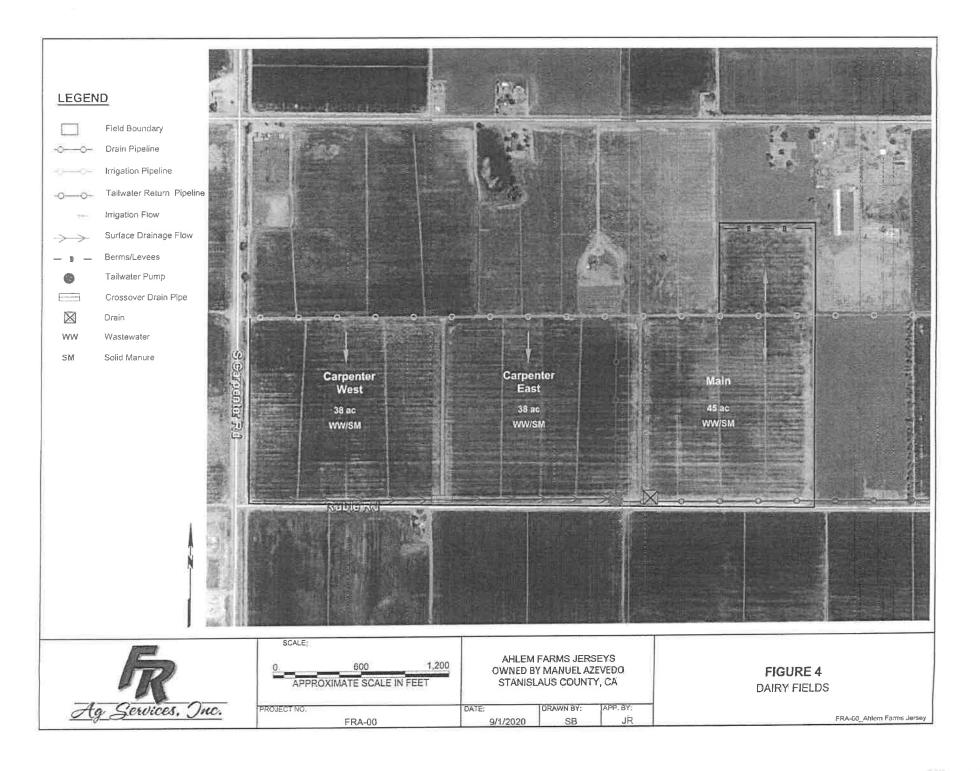
PROJECT NO.

AHLEM FARMS JERSEYS OWNED BY MANUEL AZEVEDO STANISLAUS COUNTY, CA

DATE: DRAWN BY: APP. BY: FRA-00 9/1/2020 SB JR

FIGURE 3
DAIRY FIELDS

FRA-00_Ahlem Farms Jersey





APPLICATION QUESTIONNAIRE

APP	e Check all applicable boxes LICATION FOR: s available to assist you with determ	PLANNING STAFF USE ONLY: Application No(s): UP PLN2020-008 Date: 9/9/2020		
	General Plan Amendment Rezone Use Permit Variance Historic Site Permit		Subdivision Map Parcel Map Exception Williamson Act Cancellation Other	S 20 T 5 R 9 GP Designation: Agriculture Zoning: A 2.40 Fee: \$ 4,592 \(\) Receipt No. Received By: KA Notes:

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

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

PROJECT INFORMATION

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

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

The facility is an existing and operating dairy facility with corrals, milking facilities, waste storage structures, and

utilities in place. The operation currently houses approximately 1500+/- Mature cows and 1250+/- support stock.

Application is to increase the milk/dry cows by 1000 head for a total of 2500 mature cows and increase support stock

also by 1000+/- head to 2250. There will be an estimated increase of 1 milk truck trip and 1 commodity truck trip

and 2 employee trips, per day. Project requires the construction of 48,000 sq. ft. of additional freestall housing.

all within the current footprint. Additional improvements proposed for the project include the installation of a covered digester pond and mechanical manure separation, both of which are proposed to be placed at the northwest corner of the facility footprint Nutrients produced by the herd are utilized to fertilize 175 +/- acres of irrigated cropland

PROJECT SITE INFORMATION

Complete and accurate information saves time and is vital to project review and assessment. Please complete each section entirely. If a question is not applicable to your project, please indicated this to show that each question has been carefully considered. Contact the Planning & Community Development Department Staff, 1010 10th Street - 3rd Floor, (209) 525-6330, if you have any questions. Pre-application meetings are highly recommended. 007 & 008 ASSESSOR'S PARCEL NUMBER(S): Book 058 004 Parcel 015 & 012 Page_ Additional parcel numbers: Project Site Address 825 Ruble Rd. Crows Landing CA 95313 or Physical Location: Acres: ______ or Square feet: _____ Property Area: Current and Previous Land Use: (Explain existing and previous land use(s) of site for the last ten years) The current and previous use is a dairy operation List any known previous projects approved for this site, such as a Use Permit, Parcel Map, etc.: (Please identify project name, type of project, and date of approval) Existing General Plan & Zoning: AG-40 Proposed General Plan & Zoning: Unchanged (if applicable) ADJACENT LAND USE: (Describe adjacent land uses within 1,320 feet (1/4 mile) and/or two parcels in each direction of the project site) East: Cropland and rural residences. West: Cropland. North: Dairy Facility, cropland South: Cattle Feedlot, cropland WILLIAMSON ACT CONTRACT: Yes 🗵 No 🔲 Is the property currently under a Williamson Act Contract?

Date Filed:

Contract Number: _____1976-2877, 1972-1535, 1998-4400

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

Yes LI No 🗵	Do you propose to cancel any portion of the Contract?
Yes 🛛 No 🗵	Are there any agriculture, conservation, open space or similar easements affecting the use of the project site. (Such easements do not include Williamson Act Contracts)
	If yes, please list and provide a recorded copy:
SITE CHARACTER	RISTICS: (Check one or more) Flat 🗵 Rolling 🔲 Steep 🔲
VEGETATION: Wh	at kind of plants are growing on your property? (Check one or more)
Field crops	Orchard Pasture/Grassland Scattered trees
Shrubs \square	Woodland ☐ River/Riparian ☐ Other ☐
Explain Other:	
Yes 🗆 No 🗵	Do you plan to remove any trees? (If yes, please show location of trees planned for removal on plot plan and provide information regarding transplanting or replanting.)
GRADING:	
Yes 🗆 No 🗵	Do you plan to do any grading? (If yes, please indicate how many cubic yards and acres to be disturbed. Please show areas to be graded on plot plan.) All stated improvements are proposed
T .	to be constructed within the existing footprint of the current dairy facility.
CTDEAMS LAVE	2 9 DONDO.
STREAMS, LAKES	s, & PONDS:
Yes ☐ No 図	Are there any streams, lakes, ponds or other watercourses on the property? (If yes, please show on plot plan)
Yes No 🗵	Will the project change any drainage patterns? (If yes, please explain – provide additional sheet if needed)
v 🗆 🖂	
Yes No 🗵	Are there any gullies or areas of soil erosion? (If yes, please show on plot plan)
Yes □ No 図	Do you plan to grade, disturb, or in any way change swales, drainages, ditches, gullies, ponds, low lying areas, seeps, springs, streams, creeks, river banks, or other area on the site that carries or holds water for any amount of time during the year? (If yes, please show areas to be graded on plot plan)
	Please note: If the answer above is yes, you may be required to obtain authorization from other agencies such as the Corps of Engineers or California Department of Fish and Game.

STRUC	TUR	ES:				
Yes 🗵	No		Are there structures on property lines and other	the site? (If yes, pl features of the site.	ease show on plot plan.	. Show a relationship to
Yes 🗆	No	X	Will structures be moved	or demolished? (If ye	s, indicate on plot plan.)	
Yes 🗵	No		Do you plan to build new	structures? (If yes, sh	now location and size on plot	plan.)
Yes 🗆	No	X	Are there buildings of posize on plot plan.)	ossible Historical sign	ificance? (If yes, please ex	xplain and show location and
PROJE	CT S	SITE CO	OVERAGE:	- 1991 D	***	
Existing I	Buildir	ng Cover	age: <u>285,190+/-</u>	Sq. Ft.	Landscaped Area:	N/ASq. Ft.
Proposed	d Build	ding Cove	erage: 48,624+/-	Sq. Ft.	Paved Surface Area:	
Construction Number Building Height of	of floo	ors for eact in feet (i	or building addition(s) in X210 Freestall and one (Control of the building: One Measured from ground to Penances, excluding building etc.): (Provide additional shorts)	highest point): (Providings, measured from the	house milk and dry cow	rs.
Proposed material to	d surf	ace mat	erial for parking area: (F	Provide information add	lressing dust control meas	sures if non-asphalt/concrete
UTILITI	ES A	AND IR	RIGATION FACILITIE	=====================================		,
Yes 🗵	No		Are there existing public yes, show location and size	or private utilities on on plot plan)	the site? Includes teleph	none, power, water, etc. (If
			ovide the following service	, , ,		
Electrical	·	Tu	urlock Irrigation District	Sewe	9°**	Septic
Telephor					Propane: Priv	
Water**			Private wells	Inches	tion: Turlock I	rrigation District

*Please Note: A "will serve" letter is required if the sewer service will be provided by City, Sanitary District. Community Services District, etc. **Please Note: A "will serve" letter is required if the water source is a City, Irrigation District, Water District, etc., and the water purveyor may be required to provide verification through an Urban Water Management Plan that an adequate water supply exists to service your proposed development. Will any special or unique sewage wastes be generated by this development other than that normally associated with resident or employee restrooms? Industrial, chemical, manufacturing, animal wastes? (Please describe:) There will be approximately 1900 cu. ft. per day of additional manure generated on the facility from the proposed increase in the animals housed on the operation Please Note: Should any waste be generated by the proposed project other than that normally associated with a single family residence, it is likely that Waste Discharge Requirements will be required by the Regional Water Quality Control Board. Detailed descriptions of quantities, quality, treatment, and disposal may be required. Yes X No 🗆 Are there existing irrigation, telephone, or power company easements on the property? (If yes, show location and size on plot plan.) Yes No 🗵 Do the existing utilities, including irrigation facilities, need to be moved? (If yes, show location and size on plot plan.) Yes 🗆 No 🗵 Does the project require extension of utilities? (If yes, show location and size on plot plan.) AFFORDABLE HOUSING/SENIOR: Yes No 🗵 Will the project include affordable or senior housing provisions? (If yes, please explain) RESIDENTIAL PROJECTS: (Please complete if applicable -- Attach additional sheets if necessary) Total No. Lots: _____ Total Dwelling Units: ____ Total Acreage: ____ Net Density per Acre: _____ Gross Density per Acre: Single Two Family Multi-Family Multi-Family (complete if applicable) Family Duplex Apartments Condominium/ Townhouse Number of Units: Acreage: COMMERCIAL, INDUSTRIAL, MANUFACTURING, RETAIL, USE PERMIT, OR OTHER **PROJECTS:** (Please complete if applicable – Attach additional sheets if necessary) Square footage of each existing or proposed building(s): Existing buildings comprise a total area of 191,900 +/ sq. ft. The individual buildings have been shown on the site plan. Type of use(s): All dairy related buildings are agricultural use (2010 CBC category u). The only other buildings use on the property is residential (2010 CBC category R).

Days and hours of operation: 24 hours per day/7 days per week	3898			
Seasonal operation (i.e., packing shed, huller, etc.) months and ho	urs of operation:			
Occupancy/capacity of building:				
Number of employees: (Maximum Shift): 4	(Minimum Shift):2			
Estimated number of daily customers/visitors on site at peak time:	1			
Other occupants:				
Estimated number of truck deliveries/loadings per day:	4			
Estimated hours of truck deliveries/loadings per day:	8			
Estimated percentage of traffic to be generated by trucks:10				
Estimated number of railroad deliveries/loadings per day:0				
Square footage of:				
Office area:	Varehouse area:			
Sales area:	Storage area:			
Loading area:	Vlanufacturing area:			
Other: (explain type of area) Non-building dalry area (c	orrals, ponds, feed storage, etc.) = 1,400,000+/- sq. ft.			
Yes No Will the proposed use involve toxic or haz	ardous materials or waste? (Please explain)			
Tourist Control of the Control of th				
ROAD AND ACCESS INFORMATION:				
What County road(s) will provide the project's main access? (Plea				
Ruble Road	ise snow all existing and proposed driveways on the plot plan)			

Yes 🗆	No	X	Are there private or public road or access easements on the property now? (If yes, show location and size on plot plan)				
Yes 🛘	No	×	Do you require a private road or easement to access the property? (If yes, show location and size on plot plan)				
Yes 🛚	No	X	Do you require security gates and fencing on the access? (If yes, show location and size on plot plan)				
approval	of a	n Except	that do not front on a County-maintained road or require special access may require tion to the Subdivision Ordinance. Please contact staff to determine if an exception is a the necessary Findings.				
STORM	DR	AINAG	E:				
How will y	our p	oroject h	andle storm water runoff? (Check one) 🗵 Drainage Basin 🔲 Direct Discharge 🔲 Overland				
☑ Other	: (ple	ease exp	lain) Drainage basins (storage ponds) and land application to cropland				
If direct d	ischa	rge is pr	oposed, what specific waterway are you proposing to discharge to?				
with you EROSIC	Water Quality Control Board, and must provide evidence that you have contacted them regarding this proposal with your application. EROSION CONTROL: If you plan on grading any portion of the site, please provide a description of erosion control measures you propose to implement.						
Please n Control I	ote: Boar	You ma d and pr	y be required to obtain an NPDES Storm Water Permit from the Regional Water Quality epare a Storm Water Pollution Prevention Plan.				
ADDITI	ONA	AL INFO	ORMATION:				
Please us your appl	se thi icatio	s space on. (Atta	to provide any other information you feel is appropriate for the County to consider during review of ch extra sheets if necessary)				
The facil	ity is	an existi	ing dairy operation that has corrals, feed storage, waste containment, and				
utilities i	n pla	ce. The a	application is to increase the number of mature cows on the operation by 1000 hd. and support				
stock by	1000	hd. Pro	posed expansion will require the construction of 48,624 sq. ft. of additional cow housing.				
and a 35	50+/-	X 350+/	/- covered digester pond. All proposed improvements will be constructed within the .				
existing	facili	ty footp	rint. No other physical changes to the facility will be required.				

WASTE MANAGEMENT PLAN

Ahlem Farms Jerseys Owned By Manuel Azevedo 825 Ruble Rd. Crows Landing, CA 95313

Prepared By:



2857 Geer Road, Suite A Turlock, California 95382

General Order No. R5-2007-0035, Attachment B July 1, 2010 deadline

DAIRY FACILITY INFORMATION

Physical address of dairy:	A. NAME OF DAIRY OR BUSINESS OPERATII	NG THE DAIRY: Ahlem Far	ns Jerseys		
Number and Street City County Zip Code Street and nearest cross street (if no address): TRS Data and Coordinates: 5S 9E 20 Mt. Diablo 37° 29' 11.08" N 121° 0' 16.57" W Township (T_) Range (R_) Section (S_) Baseline meridian Latitude (N) Longitude (W) Date facility was originally placed in operation: County Assessor Parcel Number(s) for dairy facility: 0053-0003-0008-0000 0058-0003-0007-0000 0058-0004-0012-0000 0058-0040-0015-0000 B. OPERATOR NAME: Herrera, Rogelio Telephone no.: (209) 632-5822 Landlino Collular 24093 American AVE Millimar CA 95324 Millimg Address Number and Street City State Zip Code Operator should receive Regional Board correspondence (check): [X] Yes [] No C. LEGAL OWNER NAME: Azevedo, Manuel Telephone no.: (209) 632-6393 Landline Cellular 2800 White RD Turlock CA 95380 Malling Address Number and Street City State Zip Code Owner should receive Regional Board correspondence (check): [X] Yes [] No D. CONTACT NAME: Sousa, Manuel Telephone no.: (209) 238-3151 Landline Cellular Telephone no.: (209) 238-3151 Landline Cellular Cellular Cellular Cellular Cellular Telephone no.: (209) 238-3151 Landline Cellular Cellular Cellular Cellular Owner should receive Regional Board correspondence (check): [X] Yes [] No	Physical address of dairy:				
Number and Street Street and nearest cross street (if no address): TRS Data and Coordinates: 5S 9E 20 Mt. Diablo 37° 29' 11.08" N 121° 0' 16.57" W Township (T_) Range (R_) Section (S_) Baseline meridian Latitude (N) Longitude (W) Date facility was originally placed in operation: 01/01/1980 Regional Water Quality Control Board Basin Plan designation: San Joaquin River Basin County Assessor Parcel Number(s) for dairy facility: 0053-0003-0008-0000 0058-0003-0007-0000 0058-0004-0012-0000 0058-0040-0015-0000 B. OPERATOR NAME: Herrera, Rogelio Telephone no.: (209) 632-5822 Landlino Collular 24093 American AVE Hilmar CA 95324 Milling Address Number and Street City State Zip Code Operator should receive Regional Board correspondence (check): [X] Yes [] No C. LEGAL OWNER NAME: Azevedo, Manuel Telephone no.: (209) 632-6393 Landline Cellular 2800 White RD Turlock CA 95380 Malling Address Number and Street City State Zip Code Owner should receive Regional Board correspondence (check): [X] Yes [] No D. CONTACT NAME: Sousa, Manuel Telephone no.: (209) 238-3151 Landline Cellular Title: Professional Engineer P.O. Box 1613 Oakdale CA 95361	825 Ruble RD	Crows Landing	Stanisla	us	95313
TRS Data and Coordinates: 5S 9E 20 Mt. Diablo 37° 29′ 11.08″ N 121° 0′ 16.57″ W Township (T_) Range (R_) Section (S_) Baseline meridian Latitude (N) Longitude (W)	Number and Street				A-3-14-14
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Description	Regional Water Quality Control Board Basin	Plan designation: San Joac	juin River Basin		
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2800 White RD Turlock CA 95380 Mailing Address Number and Street Cily State Zip Code Owner should receive Regional Board correspondence (check): [X] Yes [] No D. CONTACT NAME: Sousa, Manuel Telephone no.: (209) 238-3151 Title: Professional Engineer P.O. Box 1613 Oakdale CA 95361	Operator should receive Regional Board	correspondence (check): [X]Yes []No		
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Owner should receive Regional Board correspondence (check): [X] Yes [] No D. CONTACT NAME: Sousa, Manuel Title: Professional Engineer P.O. Box 1613 Oakdale CA 95361			ζ		
D. CONTACT NAME: Sousa, Manuel Telephone no.: (209) 238-3151 Title: Professional Engineer Cellular P.O. Box 1613 Oakdale CA 95361		•		Otate	zip code
Title: Professional Engineer P.O. Box 1613 Oakdale Cellular CA 95361	Owner should receive Regional Board co	rrespondence (check): [X]Yes []No		
Title: Professional Engineer P.O. Box 1613 Oakdale Cellular CA 95361	D. CONTACT MARIE.		-		
Title: Professional Engineer P.O. Box 1613 Oakdale CA 95361	D, CONTACT NAME: Sousa, Manuel		lelephone no.		Callular
Canadic OA 95501	Title: Professional Engineer			Landine	Cellular
	P.O. Box 1613	Oakda	le	CA	95361
	Mailing Address Number and Street				

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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:

2,500 milk and dry cows combined (regulatory review is required for any expansion)

7.							
Type of Animal	Present Count	Maximum Count	Daily Flush Hours	Avg Live Weight (lbs)			
Milk Cows	1,085	2,175	24	1,000			
Dry Cows	220	325	15	1,000			
Bred Heifers (15-24 mo.)	354	725	6	750			
Heifers (7-14 mo.)	336	925	6	550			
Calves (4-6 mo.)	153	300	6				
Calves (0-3 mo.)	164	300	24				
Predominant milk cow breed:		Jersey					
Average milk production:		60	pounds per cow per da	ч			
Average number of milk cows per st	ring sent to the milkbarn	150	milk cows per string				
Number of milkings per day:		2.0	2.0 milkings per day				
Number of times milk tank is emptie	d/filled each day:	3.0	3.0 per day				
Number of hours spent milking each	Number of hours spent milking each day:			20.0 hours per day			
B. MILKBARN EQUIPMENT AND FLO	OR WASH						
Bulk tank wash and sanitizing:		3.0	run cycles/wash				
Bulk tank wash vat volume:		65	65 gallons/cycle				
Bulk tank wash wastewater:		585.0	gallons/day				
Pipeline wash and sanitizing:		4.0	run cycles/wash				
Pipeline wash vat volume:		50	gallons/cycle				
Pipeline wash wastewater:		400.0	gallons/day				
Reused / recycled water is the source	e of parlor floor wash water:	[X]Yes []	No				
Milkbarn / parlor floor wash volume:		10,000	gallons/day				
Plate coolers type:		Well Water Co	- oled (Water Reused/Re	ecycled)			
Plate coolers volume:		28,000	gallons/day				
Vacuum pumps / air compressors / d	chillers type:	Mechanically/	Air Cooled				
Vacuum pumps / air compressors / o	chillers volume:		gallons/day	/			
Milkbarn and equipment wastewater	volume generated daily:		gallons/day				

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C. OTHER WATER USES

Reused/recycled water is the source of herd d	rinking water:	[]	Yes [X]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:	0	0	0	0	0	0	
	of 1,085	of 220	of 354	of 336	of 153	of 164	
Gallons per head per day:	0	0	0	0	0	0	
Total reusable water consumed by herd:			0 gal	lons/day			
Reused/recycled water is the source of sprink	ler pen water:	[X]	Yes [] No				
Number of sprinklers in the holding pen:		1	1 spi	inklers			
Duration of each sprinkler cycle:			0.1 mi	nutes			
Number of sprinkler pen runs/milking:		Valent.	1 cycles/milking				
Flow rate for each sprinkler head:			0.1 gallons/minute				
Total sprinkler pen wastewater volume:			<u>0</u> gallons/day				
Total fresh water used in manure flush lane sy	/stem(s):		0 gallons/day				
D. MISCELLANEOUS EQUIPMENT							
No miscellaneous equipment entered.							
E. MILKBARN AND EQUIPMENT SUMMARY							
Number of days in storage period:		-	120 da	ys			
Water available for reuse/recycle:			28,000 ga	llons/day			
Recycled water reused:		_	10,000 ga	llons/day			
Recycled water leaving system:		-	0 ga	llons/day			
Reusable water balance:		1,000	18,000 ga	llons/day			
Volume of milkbarn and equipment wastewate storage period:	er generated fo	r	3,478,200 ga	llons/storage p	eriod		

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)
Straw (chopped)	100	7.0	75%	7,143
Facility generated bedding	182	40.0	50%	4,550
			Total:	11,693

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B. SOLIDS SEPARATION PROCESS

Combined manure solids separation efficiency (weight basis):

60 %

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

Proposed twin screen mechanical separator

C. MANURE AND BEDDING SOLIDS SUMMARY

	cubic feet		gall	ons
	day	storage period	day	storage period
Manure generated by the herd (pre-separation):	6,565.58	787,869	49,113.92	5,893,670
Manure generated by the herd sent to pond(s):	4,274.65	512,958	31,976.58	3,837,190
Manure generated by the herd sent to dry lot(s):	1,222.98	146,757	9,148.51	1,097,821
Manure sollds (herd) removed by separation:	516.99	62,039	3,867.36	464,083
Liquid component in separated solids not send to pond(s):	550.96	66,115	4,121.47	494,576
Imported and facility generated bedding sent to pond(s):	97.44	11,693	728.91	87,469
Total manure and bedding sent to pond(s):	4,372.09	524,651	32,705.49	3,924,658
Residual manure solids and bedding sent to pond(s) w/factor:	221.05	26,526	1,653.57	198,429
	cubic fee	t per year	gallons	per year
Residual manure solids and bedding sent to pond(s) w/factor:		80,683		603,554

RAINFALL AND RUNOFF

A. RAINFALL ESTIMATES

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

25 year/24 hour storm event (user-override):

Storage period rainfall (default DWR climate data):

Storage period rainfall (user-override):

Rainfall station nearest the facility:

Flood zone:

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-	_	_	_	_		_

2.50 inches/storage period

inches/storage period

7.58 inches/storage period

inches/storage period

Zone X

B. IMPERVIOUS AREAS

Name	Surface Area (sq. ft.)	Quantity	25yr/24hr Storm Runoff Coefficient	Storage Period Runoff Coefficient	Runoff Destination
Center Dairy Control Lane	5,771	1	0.97	0.50	Drains into pond(s).
Dry Cow Feed Alley	4,583	1	0.97	0.50	Drains into pond(s).
East Heifer Feedlot Feed Alley	35,545	1	0.97	0.50	Drains into pond(s).
East Heifer Silage Slab	9,358	1	0.97	0.50	Drains into pond(s).
Hay Barn Concrete Extension	3,778	1	0.97	0.50	Drains into pond(s).
Proposed Diogester Sand Lane	2,500	1	0.97	0.50	Drains into pond(s).
Proposed Mechanical Separator Pad	10,000	1	0.97	0.50	Drains into pond(s).

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	Proposed West Heifer Feed Alley Addition	5,880	1	0.97	0.50	Drains into pond(s).
	Silage/Commodity Slab	107,021	1	0.97	0.50	Drains Into pond(s).
	West Heifer Feed Alley	10,070	1	0.97	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):			194,506 sq. ft.		
Total surface area:			194,506 sq. ft.			
Runoff from normal storage period rainfall:			459,539 gallons/storage period			
	Runoff from normal storage period rainfall	with 1.5 factor:		689,309 gallons/storage period		
25 year/24 hour storm event runoff:		294,032 gallons/storage period				
Total surface area runoff:		753,572 gallons/storage period				
Total surface area runoff with 1.5 factor:		983.341 gallons/storage period		d		
				-		

C. ROOF AREAS

Name	Surface Area (sq. ft.)	Quantity	Runoff Destination
Calf Barn	12,949	1	Wastewater pond
Center Freestall	35,256	1	Wastewater pond
Commodity Shed	4,611	1	Wastewater pond
East Dry Cow Barn	6,615	1	Wastewater pond
East Freestall	57,225	1	Wastewater pond
Half Freestall	26,784	1	Wastewater pond
Hay Barn	14,414	1	Wastewater pond
Milking Parlor	11,185	1	Yard
North Heifer Barn	25,253	1	Wastewater pond
Proposed Center Freestall Extension	21,840	1	Wastewater pond
Proposed Half Freestall Addition	26,784	1	Wastewater pond
South Heifer Barn	16,976	1	Wastewater pond
West Dry Cow Barn	10,880	1	Wastewater pond
West Freestall	63,042	1	Wastewater pond

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Surface area that does not run off into pond(s):	11,185 sq. ft.
Surface area that runs off into pond(s):	322,629 sq. ft.
Total surface area:	333,814 sq. ft.
Runoff from normal storage period rainfall:	1,524,485 gallons/storage period
Runoff from normal storage period rainfall with 1.5 factor;	2,286,727 gallons/storage period
25 year/24 hour storm event runoff:	502,798 gallons/storage period
Total surface area runoff:	2,027,283 gallons/storage period
Total surface area runoff with 1.5 factor:	2,789,526 gallons/storage period

D. EARTHEN AREAS

Name	Surface Area (sq. ft.)	Quantity	25yr/24 Storm Coefficient	Storage Period Coefficient	Runoff Destination
Dairy Facility Earthen Area	1,070,871	1	0.35	0.20	Drains into pond(s).
Heifer Feedlot Earthen Area	249,542	1	0.35	0.20	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):		1,320,413 sq. ft.			
Total surface area:		1,320,413 sq. ft.			
Runoff from normal storage period rainfall:		1,247,842 ga	llons/storage peri	od	
Runoff from normal storage period rainfall with 1.5 factor:		1,871,763 gallons/storage period			
25 year/24 hour storm event runoff:		720,225 gallons/storage period			
Total surface area runoff:		1,968,067 gallons/storage period			
Total surface area runoff with 1.5 factor:		2,591,988 gallons/storage period			

E. TAILWATER MANAGEMENT

No fields with tailwater entered.

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LIQUID STORAGE

. POND OR BASIN DESCRIPTIO	N: Heifer Feedlot		
Pond is rectangular in shape:	[X]Yes []No		
	Dir	mensions	
Earthen Length (EL):	320 ft.	Earthen Depth (ED):	10 ft.
Earthen Width (EW):	60 ft.	Side Slope (S):	2.0 ft. (h:1v)
Free Board (FB):	2 ft.	Dead Storage Loss (DS):	1,0 ft.
	Ca	lculations	
Liquid Length (LL):	312 ft.	Storage Volume Adjusted	
Liquid Width (LW):	52 ft.	for Dead Storage Loss:	79,725 cu. ft.
Pond Surface Area:	19,200 sq. ft.	Pond Marker Elevation:	7.0 ft.
Storage Volume:	85,931 cu. ft.	Evaporation Volume:	83,590 gals/period
		Adjusted Surface Area:	15,547 sq. ft.
POND OR BASIN DESCRIPTIO	Mr. Down of Discolar Book		
Pond is rectangular in shape	, , , , , , , , , , , , , , , , , , , ,		11341
1 stra to rostangular in strapo		mensions	
Cadhan Laundh (CL)			
Earthen Length (EL):	350 ft.	Earthen Depth (ED):	12 ft.
Earthen Width (EW):	350 ft.	Side Slope (S):	2.0 ft. (h:1v)
Free Board (FB):	2 ft.	Dead Storage Loss (DS):	4.0 ft.
	Ca	alculations	
Liquid Length (LL):	342 ft.	Storage Volume Adjusted	070.000
Liquid Width (LW):	342 ft.	for Dead Storage Loss:	653,688 cu. ft.
Pond Surface Area:	122,500 sq. ft.	Pond Marker Elevation:	9,2 ft.
Storage Volume:	1,038,173 cu. ft.	Evaporation Volume:	622,801 gals/period
		Adjusted Surface Area:	115,835 sq. ft.

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POND OR BASIN DESCRIPTIO	N: SSB		
Pond is rectangular in shape:	[X]Yes []No		N
	Di	mensions	
Earthen Length (EL):	371 ft.	Earthen Depth (ED):	8 ft.
Earthen Width (EW):	68 ft.	Side Slope (S):	1.1 ft. (h:1v)
Free Board (FB):	2 ft.	Dead Storage Loss (DS):	0.0_ft.
	Ca	alculations	
Liquid Length (LL):	367 ft.	Storage Volume Adjusted	
Liquid Width (LW):	64 ft.	for Dead Storage Loss:	123,207 cu. ft.
Pond Surface Area:	25,228 sq. ft.	Pond Marker Elevation:	5.1 ft.
Storage Volume:	123,207 cu. ft.	Evaporation Volume:	123,190 gals/period
		Adjusted Surface Area:	22,912 sq. ft.
POND OR BASIN DESCRIPTIO	N: WWS 1		
Pond is rectangular in shape	[X]Yes []No		
	D	imensions	
Earthen Length (EL):	352 ft.	Earthen Depth (ED):	12 ft.
Earthen Width (EW):	246 ft.	Side Slope (S):	1.9 ft. (h:1v)
Free Board (FB):	2 ft.	Dead Storage Loss (DS):	2.0 ft.
	C	alculations	
Liquid Length (LL):	344 ft.	Storage Volume Adjusted	
Liquid Width (LW):	238 ft.	for Dead Storage Loss:	588,436 cu. ft.
Pond Surface Area:	86,592 sq. ft.	Pond Marker Elevation:	9.2 ft.
Storage Volume:	715,131 cu. ft.	Evaporation Volume:	436,501 gals/period
		Adjusted Surface Area:	81,185 sq. ft.

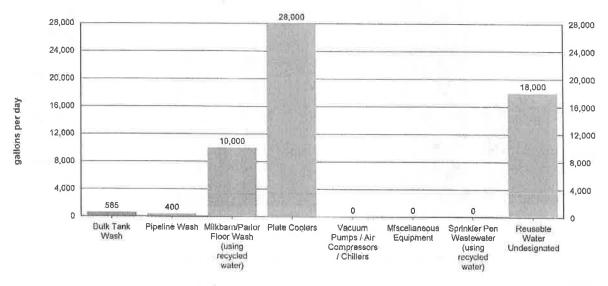
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POND OR BASIN DESCRIPTION	VVVVS 2				
Pond is roctangular in shape:	[X]Yes []No				
	Dir	mensions			
Earthen Length (EL);	610 ft.	Earthen Depth (ED):	12 ft.		
Earthen Width (EW):	156 ft.	Side Slope (S):	2,0 ft. (h:1v)		
Free Board (FB):	2 ft.	Dead Storage Loss (DS):	1.0 ft.		
	Ca	lculations			
Liquid Length (LL):	602 ft.	Storage Volume Adjusted			
Liquid Width (LVV):	148 ft.	for Dead Storage Loss:	684,252 cu. ft.		
Pond Surface Area:	95,160 sq. ft.	Pond Marker Elevation:	9.1 ft.		
Storage Volume:	746,293 cu. ft.	Evaporation Volume:	472,246 gals/period		
		Adjusted Surface Area:	87,833 sq. ft.		
Potential storage losses (due to Liquid storage surface area:	dead storage): 579,4	427.0 cubic feet - or - 4,334,41.	4.9 gallons		
Rainfall onto retention pond(s):			1,647,581 gallons/storage period		
Rainfall runoff into retention pon	d(s):		3,231,866 gallons/storage period		
Normal rainfall onto retention po	ond(s) with 1.5 factor:	The state of the s	2,471,371 gallons/storage period		
Normal rainfall runoff into retent	ion pond(s) with 1.5 factor:	4,847,799 gallons/stora	4,847,799 gallons/storage period		
Storage period evaporation (def	ault):	11.50 inches/storag	11.50 inches/storage period		
Storage period evaporation (user-override):		inches/storag	inches/storage period		
Storage period evaporation volume:		1,738,328 gallons/stora	1,738,328 gallons/storage period		
Manure and bedding sent to pond(s):		3,924,658 gallons/stora	3,924,658 gallons/storage period		
Milkbarn water sent to pond(s):		3,478,200 gallons/stora	3,478,200 gallons/storage period		
Fresh flush water for storage pe	riod:	0 gallons/stora	0 gallons/storage period		

Waste Management Plan Report General Order No. R5-2007-0035, Attachment B July 1, 2010 deadline

CHARTS

A. MILKBARN WASTEWATER SENT TO POND(S)



Values shown in chart are approximate values per day.

Total milkbarn wastewater generated daily:

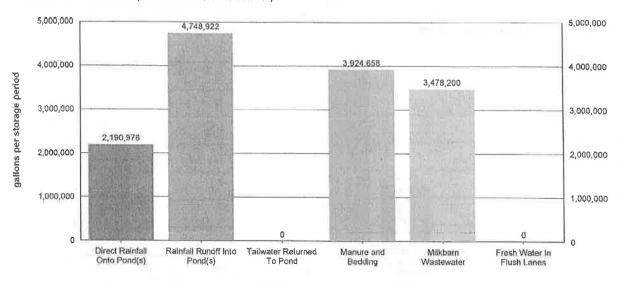
28,985 gallons/day

Total milkbarn wastewater generated per period:

3,478,200 gallons/storage period

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B. PROCESS WASTEWATER (NORMAL PRECIPITATION)

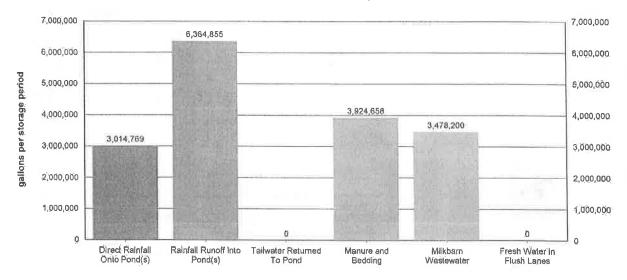


Values shown in chart are approximate values for storage period.

Storage period:	120 days
Total process wastewater generated daily:	119,523 gallons/day
Total process wastewater generated per period:	14,342,759 gallons/storage period
Total process wastewater removed due to evaporation:	1,738,328 gallons/storage period
Total storage capacity required:	12,604,431 gallons
	1,684,967 cu. ft.
Existing storage capacity (adjusted for dead storage loss):	15,928,330 gallons
	2,129,308 cu. ft.
Considering normal precipitation, existing capacity meets estim	ated storage needs: [X] Yes [] No

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C. PROCESS WASTEWATER (NORMAL PRECIPITATION WITH 1.5 FACTOR)



Values shown in chart are approximate values for storage period.

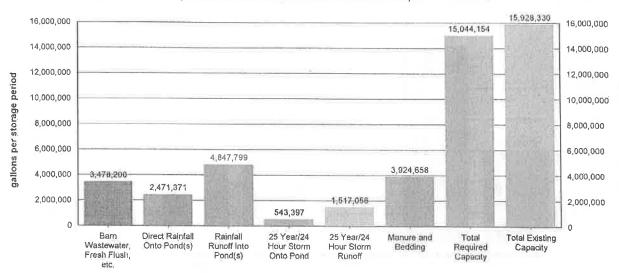
Storage period:	120 days
Total process wastewater generated daily:	139,854 gallons/day
Total process wastewater generated per period:	16,782,482 gallons/storage period
Total process wastewater removed due to evaporation:	1,738,328 gallons/storage period
Total storage capacity required:	15,044,154 gallons
	2,011,111 cu. ft.
Existing storage capacity (adjusted for dead storage loss):	15,928,330 gallons
	2,129,308 cu. ft.

Considering factored precipitation, existing capacity meets estimated storage needs:

[X] Yes [] No

General Order No. R5-2007-0035, Attachment B July 1, 2010 deadline

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



Values shown in chart are approximate values for storage period.

Storage period:	120 days
Barn wastewater, fresh flush water, and tailwater:	3,478,200 gallons/storage period
Manure and bedding sent to pond:	3,924,658 gallons/storage period
Precipitation onto pond:	2,471,371 gallons/storage period
Precipitation runoff:	4,847,799 gallons/storage period
25 year/24 hour storm onto pond:	543,397 gallons/storage period
25 year/24 hour storm runoff:	1,517,056 gallons/storage period
Residual solids after liquids have been removed (liquid equivalent):	198,429 gallons/storage period
Total process wastewater removed due to evaporation:	1,738,328 gallons/storage period
Total required capacity:	15,044,154 gallons/storage period
Total existing capacity:	15,928,330 gallons/storage period
Existing capacity meets estimated storage needs:	[X] Yes [] 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

- 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.
- Freeboard will be monitored during and after each significant storm event and the results recorded on a Production Area Significant Storm Event Inspection Form.
- 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

- 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.
- 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: WWS 1

Dry season freeboard monitoring will occur on the 5th of each month.

Wet season freeboard monitoring will occur every Monday 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 August of each year.

Sludge accumulation will be measured annually.

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

Sludge accumulation should be measured at pond drawdown with a probe that can indicate sludge thickness.

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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:

Water is added throughout the year to dilute solids. Solids are pumped out during irrigations. If necessary, storage can also be agitated and pumped into slurry wagons or directly excavated for Spring and/or Fall application. If excavation is required, cleaning equipment operator will be informed as to overall depth of storage and instructed to remain 6-12 inches from the floor

OPERATIONS AND MAINTENANCE PLAN FOR POND: Heifer Feedlot

Dry season freeboard monitoring will occur on the 5th of each month.

Wet season freeboard monitoring will occur every Monday 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 August of each year.

Sludge accumulation will be measured annually.

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

Sludge accumulation should be measured at pond drawdown with a probe that can indicate sludge thickness.

When solids/sludge accumulate to a thickness of 1.0 feet, the following method will be used to maintain adequate storage capacity while protecting any pond liner:

Water is added throughout the year to dilute solids. Solids are pumped out during irrigations. If necessary, storage can also be agitated and pumped into slurry wagons or directly excavated for Spring and/or Fall application. If excavation is required, cleaning equipment operator will be informed as to overall depth of storage and instructed to remain 6-12 inches from the floor.

OPERATIONS AND MAINTENANCE PLAN FOR POND: Proposed Digester Pond

Dry season freeboard monitoring will occur on the 5th of each month.

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

Process wastewater pond contents will be lowered to the minimum operating level (elevation) of 4.0 feet above the pond invert beginning in August of each year.

Sludge accumulation will be measured annually.

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

Sludge accumulation will be monitored by a third party company which will be operating the digester.

When solids/sludge accumulate to a thickness of 4.0 feet, the following method will be used to maintain adequate storage capacity while protecting any pond liner:

In the event solids/sludge accumulation requires to be removed, digester cover will be removed, storage agitated and contents removed through the use of slurry wagons.

OPERATIONS AND MAINTENANCE PLAN FOR POND: SSB

Dry season freeboard monitoring will occur on the 5th of each month.

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

Process wastewater pond contents will be lowered to the minimum operating level (elevation) of 0.0 feet above the pend invert beginning in August of each year.

Sludge accumulation will be measured annually.

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

Sludge accumulation should be measured at pond drawdown with a probe that can indicate sludge thickness.

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When solids/sludge accumulate to a thickness of 1.0 feet, the following method will be used to maintain adequate storage capacity while protecting any pond liner.

SSB is typically dewatered in the late summer/early fall and excavated prior to the onset of winter weather.

OPERATIONS AND MAINTENANCE PLAN FOR POND: WWS 2

Dry season freeboard monitoring will occur on the 5th of each month.

Wet season freeboard monitoring will occur every Monday 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 August of each year.

Sludge accumulation will be measured annually.

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

Sludge accumulation should be measured at pond drawdown with a probe that can indicate sludge thickness.

When solids/sludge accumulate to a thickness of 1.0 feet, the following method will be used to maintain adequate storage capacity while protecting any pond liner:

Water Is added throughout the year to dilute solids. Solids are pumped out during irrigations. If necessary, storage can also be agitated and pumped into slurry wagons or directly excavated for Spring and/or Fall application. If excavation is required, cleaning equipment operator will be informed as to overall depth of storage and instructed to remain 6-12 inches from the floor

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.

Buildings with rooftop rainfall collection systems	Quantity	Surface Area (sq. ft.)
Calf Barn	1	12,949
Center Freestall	-1	35,256
Commodity Shed	1	4,611
East Dry Cow Barn	1	6,615
East Freestall	1	57,225
Half Freestall	1	26 ,7 84
Hay Barn	1	14,414
Milking Parlor	1	11,185
North Heifer Barn	1	25,253
Proposed Center Freestall Extension	1	21,840
Proposed Half Freestall Addition	1	26,784
South Heifer Barn	1	16,976
West Dry Cow Barn	1	10,880

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	July 1, 2010 deadline	3.00	
	West Freestall	1 63	,042
,	Assessment for buildings with rooftop rainfall collection systems will occur on o	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:	-, -'	
	Gutters and downspouts will be cleaned and repaired as needed to prevent un	needed overland flow of runoff.	
C. (CORRAL MAINTENANCE		
i	i. Monthly from June 1st through September 30th (dry season) and weekly fr perimeter of the corrals and pens will be assessed to ensure that runon correctly, and that all water that contacts waste is collected and diverted identified and corrective actions performed will be recorded on a Dairy Prod	and runoff controls such as berms are function into the wastewater retention pond (s). Any is	nina
i	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 ow	ner, operator, and/or designer specified condition	ıns.
	2. Whether there are depressions within the corrals that should be filled/gro	pomed to prevent ponding.	
	iii. Removal of manure and/or regrading, when necessary, will be completed or	n or before the designated month/day of each ye	ar.
	Day of the month dry season assessment will occur: 5	th of each month	
	_	londay	
		st of October	
	Conditions requiring manure removal and/or regrading:		
	Corral conditions should be assessed by October 1 of each year regrade and add fill material to the corrals. The corrals should be g the corrals for longer than 48 hours. Well maintained/scraped corrals 1/2% slope. During the rainy season, corrals must still be groomed or manure management must be in accordance with SJVAPCD permit requirement.	raded to prevent accumulation of wastewate should provide adequate drainage at 1% cloanod to provide adequate drainage. C	er in
	Solid manure removal and/or regrading will occur on or before:	st of November	
D	FEED STORAGE AREA MAINTENANCE		
		20.1	
	 During the dry season and prior to the wet season, the perimeter of stor- runoff controls such as berms are functioning correctly and runoff and lea the wastewater pond(s). Any issues identified and corrective actions per Visual Inspection Form - Manure and Feed Storage Areas. 	chate from the areas are collected and diverted	d into
	 During the wet season, feed storage area(s) will be assessed to determine area that should be filled or repaired to prevent ponding. 	ne if there are depressions within any feed sta	orage
	iii. Any necessary regrading/resurfacing and berm/conveyance maintenance w	ill be completed on an annual basis.	
	Day of the month dry season assessment will occur:	5th of each month	
	Day of the week wet season assessment will occur:	Monday	
	Regrading/resurfacing and berm maintenance assessment will occur on or bef		
	Regrading/resurfacing and berm maintenance completion will occur on or before	re: 1st of November	

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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 runon 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

	The state of the s	on voyanoo mamonano	O WIII DO 00	inploted on an annual basis.		
	Day of the month dry season assessment will occur	•		5th 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 CONVEY	ANCE SYSTEM MAINT	ENANCE			
	 A map will be attached that identifies critical poverify that water is being managed as identified operator, and/or designer specified Intervals. 	pints for monitoring the d in this Waste Manage	animal hou ement Plan	using and flush water conveyance system to . These points will be maintained at owner,		
	Animal housing area assessment will occur on or b	efore:	1st of Oct	tober		
	Animal housing drainage system maintenance will a	occur on or before:	1st of Nov	vember		
	Animal housing area drainage system assessment	and maintenance meth-	ods:			
G	Debris is removed from flush lanes, drains, and co regraded and soil is added as needed to insure dra monitor are all drains. These drains should be che drain/conveyance clogging has not occurred. MORTALITY MANAGEMENT i. Dead animals will be stored, removed, and dispose	ainage. The critical anii ecked before every stori	nat housing	/flush conveyance points to		
	Rendering company or landfill name:	DDT				
	Rendering company or landfill telephone number:	(209) 678-1820				
Н	. ANIMALS AND SURFACE WATER MANAGEMEN	Т				
	i. A system will be in place, monitored, and mair other surface water crosses or adjoins the corra	ntained to prevent anim l(s).	als from e	ntering any surface waters when a stream or		
	Does a stream or any other surface water cross or	adjoin the corrals?	[]Yes	[X] No		
l.	MONITORING SALT IN ANIMAL RATIONS					
	 The combined quantity of minerals as salt in at on a routine basis to verify that minerals are lim As feed rations change, mineral content may ch 	nited to the amount req	d feed ration in the decired to ma	ons will be reviewed by a qualified nutritionist sintain animal health and optimum production.		
	Assessment interval: Monthly					

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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)	Name	Disposal Co	empany Phone	Collection Frequency
Mandate Plus (Acid Sanitizer)	50	gallons	month	Milk Barn	Totes picked up by distributor				
TDR Mega Force	120	gallons	month	Milk Barn	Totes picked up by distributor				
Back Flush Sanitizer	36	gallons	month	Milk Barn	Containers recycled by distributor				
Multichlor Chlorine	75	gallons	month	Mllk Barn	Totes picked up by distributor				
Eco Plus 50 Iodine	400	gallons	month	Milk Barn	Totes picked up by distributor				
Eco Plus I-100	850	gallons	month	Milk Barn	Totes picked up by distributor				

Waste Management Plan Report General Order No. R5-2007-0035, Attachment B

July 1, 2010 deadling

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: Figure 2
	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: Figure 3
	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: N/A
	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: Figure 2
	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: Figure 1
В.	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: Figures 2-3

General Order No. R5-2007-0035, Attachment B July 1, 2010 deadline

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.

L	Land application infrastructure system area map reference number: Fig	ures 2-3
C. E	EXCESS PRECIPITATION CONTINGENCY REPORT	
7	There were no attachment references entered or required for this attachment	ent section.
o. (D. OPERATION AND MAINTENANCE PLAN	
V	Attach a map that identifies critical points for monitoring the system to Waste Management Plan (see Attachment B, Pg B-7 V.F, V.G, and V.H fo	verify that water is being managed as identified in this radditional requirements).
F	Animal housing assessment map reference number: Figure 2	
E. F	E. FLOOD PROTECTION / INUNDATION REPORT	
F	Provide a published flood zone map that shows the facility is outside the re-	elevant flood zones.
F	Flood zone map and/or document reference number: 06099C0760E	
F. E	F. BACKFLOW PROTECTION	
ĺ	Attach documentation from a trained professional (i.e. a person certifier inspector from a state or local governmental agency who has experience with such experience and/or training), as specified in Required Report	e and/or training in backflow prevention, or a consultar

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 Certificate

General Order No. R5-2007-0035, Attachment B July 1, 2010 deadline

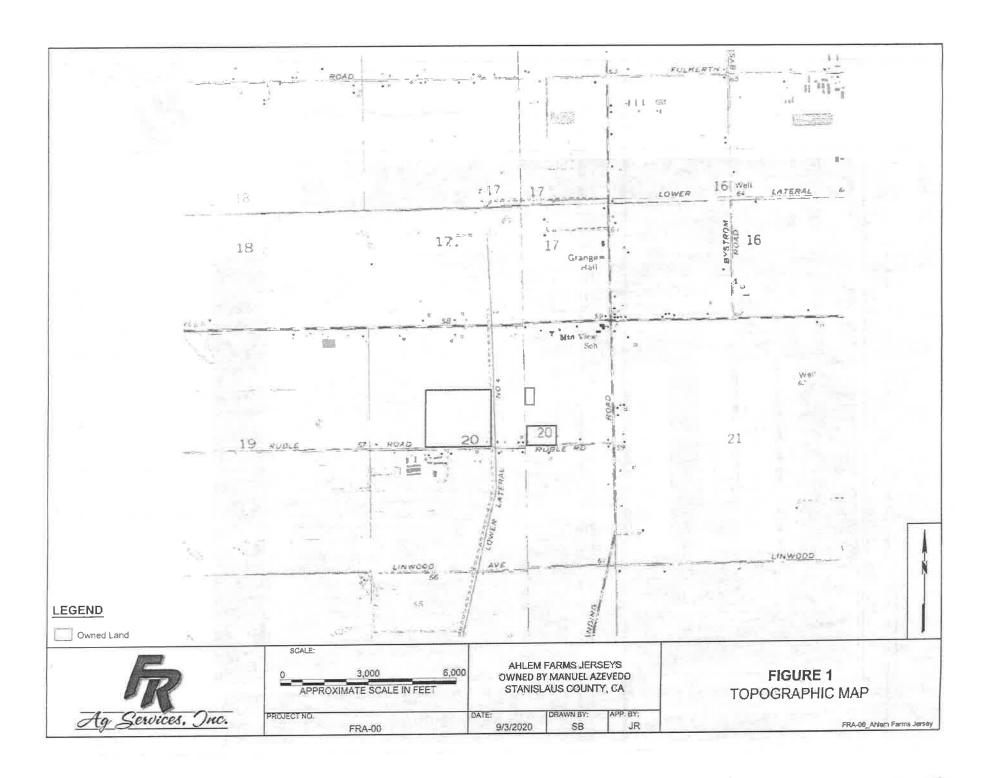
		CERTIFICATION		
A. DAIRY FACILITY INFOR	MATION			
Name of dairy or busines	s operating the dairy:	Ahlem Farms Jerseys		
Physical address of dairy	: · ·			
825 Ruble RD		Crows Landing	Stanislaus	95313
Number and Street		City	County	Zip Code
Street and nearest cross	street (if no address):			
B. DOCUMENTATION OF C	QUALIFICATIONS AND	PLAN DEVELOPMENT		
accordance with Item II, No. R5-2007-0035 and o	Attachment B of the W certify that this plan was ant to California law or i	gement plan that is related to aste Discharge Requirements a prepared by, or under the ro other person as may be perr arge of such work.	s General Order for Existin esponsible charge of, and	g Milk Cow Dairies - Order certified by a civil engineer
Storage capacity is:				
Insufficient				102710
Retrofitting Plan/ Attachment B, II.	Schedule/Design Criter B. 1-5 and Attachment	ia attached in accordance wit B, II. C.	187	PROFESSIONAL R. SOLLET
Sufficient			REGIST	\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
Certification 1 - 0 contingency plan	Certified in accordance v	with Attachment B, II. A. 1-8.		No. 65379 EXP. 09-30-21
Certification 2 - (contingency plan	Certified in accordance value attached)	with Attachment B, II. A. 1-8,	II. C. (with	OF CALIFORNIA
11 0000	Digitally signed by Manny Sousa, PE	•		
Hamt L. Chrose	Sousa, PE Date: 2020,09.07 11:49:55		CIVILE	NGINEER'S WET STAMP
	-07'00'	9/7/2020		
SIGNATURE OF CIVIL EN	GINEER	DATE		
Manuel Sousa				
PRINT OR TYPE NAME				
P.O. Box 1613; Oakdale,	CA 95361			
MAILING ADDRESS	2.,20001	757	100	
(209) 238-3151				
PHONE NUMBER				

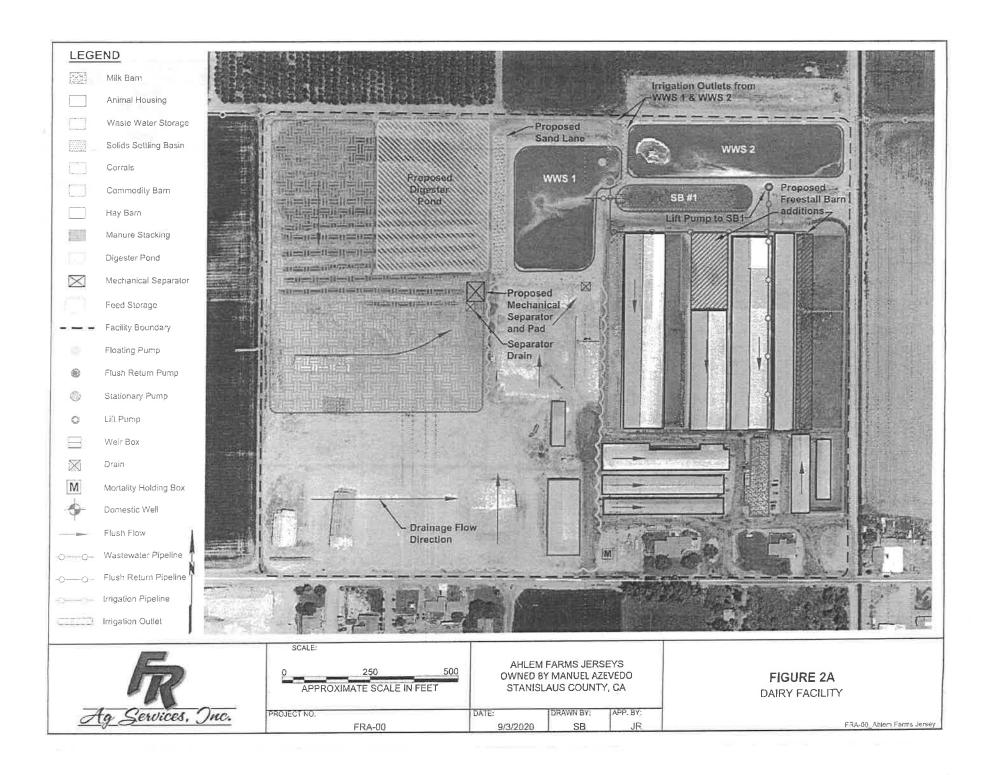
Waste Management Plan Report General Order No. R5-2007-0035, Altachment B July 1, 2010 deadline

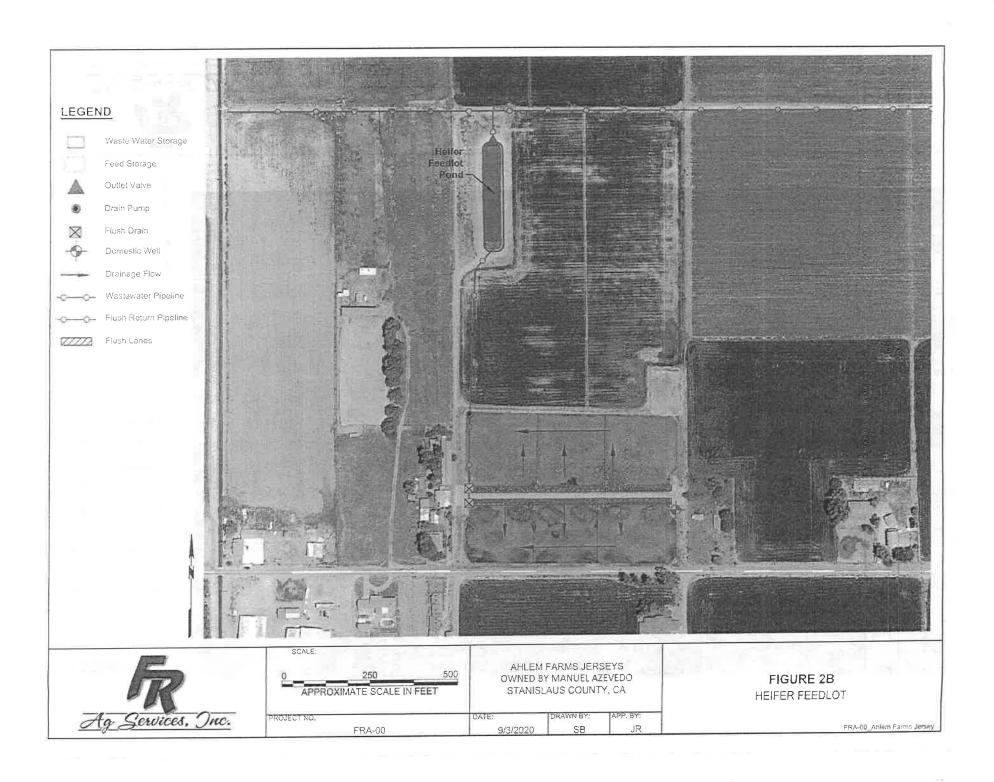
C. OWNER AND/OR OPERATOR CERTIFICATION

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.

Manuel Alevedo		
SIGNATURE OF OWNER	SIGNATURE OF OPERATOR	
Manuel Azovedo PRINT OR TYPE NAME	Rogelio Herrera	
9-8-2020	PRINT OR TYPE NAME	
DATE	DATE	Marie Committee of the









Field Boundary

Irrigation Pipeline

Drain Pipeline

Irrigation Flow

Facility Boundary

Tailwater Pump

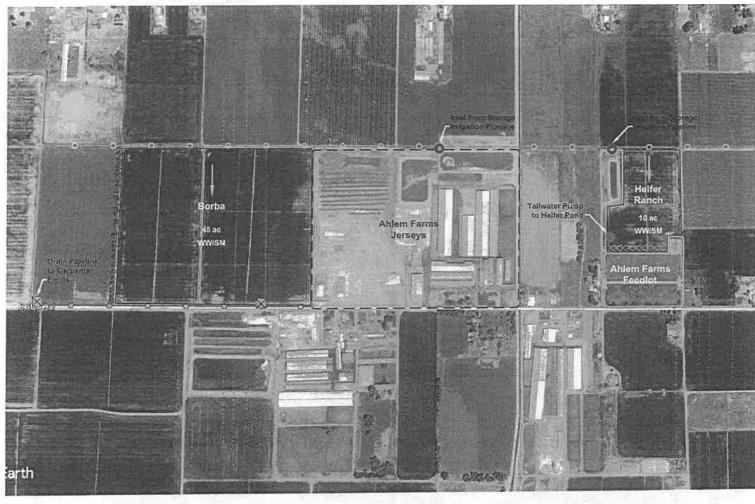
Inlet Storage

0 \boxtimes Drain

Tailwater >>>>

WW Wastewaler

SM Solid Manure





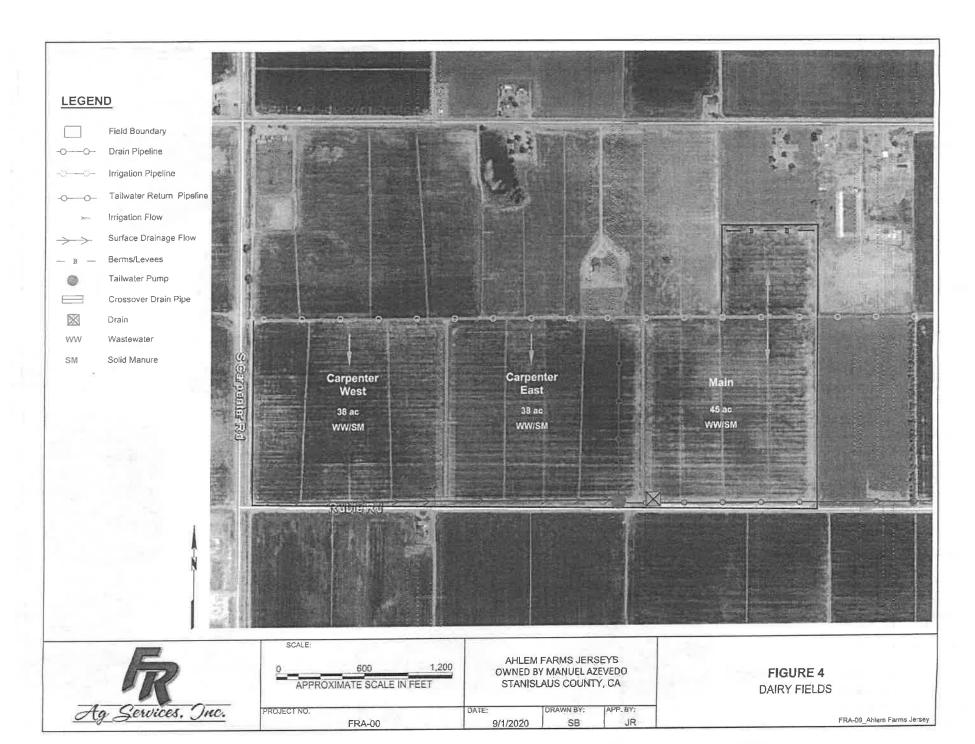
SCALE: APPROXIMATE SCALE IN FEET

AHLEM FARMS JERSEYS OWNED BY MANUEL AZEVEDO STANISLAUS COUNTY, CA

APP, BY: DRAWN BY: PROJECT NO. DATE: 9/1/2020 SB JR FRA-00

FIGURE 3 DAIRY FIELDS

FRA-00 Ahlem Farms Jersey



National Flood Hazard Layer FIRMette

250

500

1.000

1.500



STANISLAUS COUNTY 060384 AREA OF MINIMAL FLOOD HAZARD 06099 C0760E SGS The National Mark Sphinimagery Data refreshed April 2020. 121°0'5"W 37°28'54"N

1:6.000

2,000

Legend

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

Without Base Flood Elevation (BFE) With BFE or Depth Zone AE 40, AH JE AF SPECIAL FLOOD HAZARD AREAS Regulatory Floodway 0.2% Annual Chance Flood Hazard, Area of 1% annual chance flood with average depth less than one foot or with drainag areas of less than one square mile Future Conditions 1% Annual Chance Flood Hazard Area with Reduced Flood Risk due to Levee, Sec Notes, Total OTHER AREAS OF Area with Flood Risk due to Levee Zillion FLOOD HAZARD No screen Area of Minimal Flood Hazard Zana Effective LOMRs OTHER AREAS Area of Undetermined Flood Hazard - - - Channel, Culvert, or Storm Sewer STRUCTURES IIIIII Levee. Dike, or Floodwall 20.2 Cross Sections with 1% Annual Chance 17.5 Water Surface Elevation Coastal Transect Base Flood Elevation Line (BFE) Limit of Study Jurisd ction Boundary - Coastal Transect Baseline Profile Baseline **FEATURES** Hydrographic Feature

MAP PANELS

Digital Data Available

No Digital Data Available

ANELS

Unmapped

The pin displayed on the map is an approximate point selected by the user and does not represe an authoritative property location.

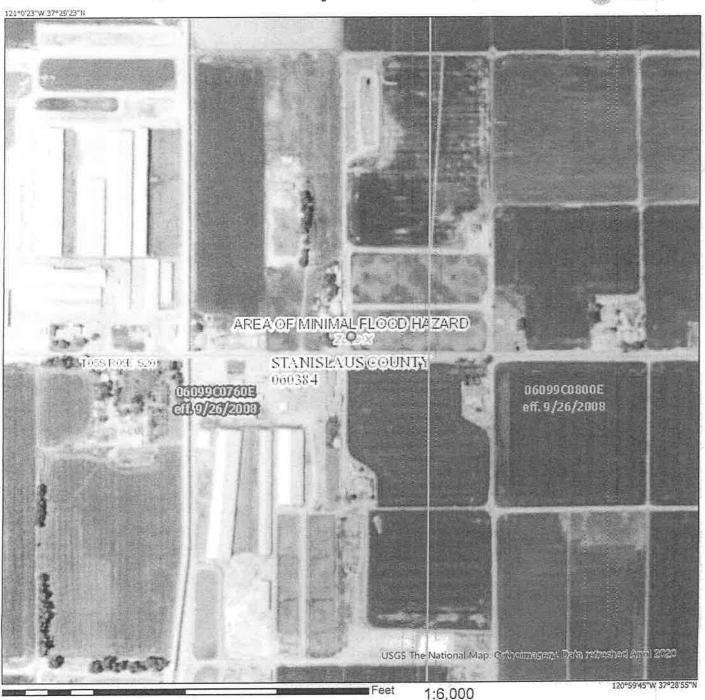
This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard Information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 8/33/2020 at \$145 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: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective cate. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

National Flood Hazard Layer FIRMette





2,000

1,000

250

500

1,500

Legend

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

		Without Base Flood Elevation (BFE)
SPECIAL FLOOD		With BFE or Depth Zone AE, AO, AH, VE AR
HAZARD AREAS	1233	Regulatory Floodway
		0.2% Annual Chance Flood Hazard, Arr of 1% annual chance flood with averag depth fess than one foot or with draina areas of less than one square mile 2000
	NET ST	Future Conditions 1% Annual Chance Flood Hazard Zone A Area with Reduced Flood Risk due to
OTHER AREAS OF FLOOD HAZARD	F 597	Levee, See Notes, Zene X Area with Flood Risk due to Levee Zene
FLOOD HAZARD		THE MAN THE CHARLES OF MAN TO SHARE
	NO SCREEN	Area of Minimal Flood Hazard Zales K
		Effective LOMRs
OTHER AREAS		Area of Undetermined Flood Hazard
GENERAL		Channel, Culvert, or Storm Sewer
STRUCTURES	иши	Levee, Dike, or Foodwall
		Cross Sections with 1% Annual Chance Water Surface Elevation Coastal Transect Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary Coastal Transect Basel ne
OTHER		Profile Easeline
FEATURES		Hydrographic Feature
		Digital Data Available
		No Digital Data Available
MAP PANELS	Dd	Unmapped
0		

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

The pin displayed on the map is an approximate point selected by the user and does not represe

an authoritative property location.

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 9/3/2020 at 2:59 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: basemap Imagery, flood zone labels, legend, scale bar, map creation cate, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

NUTRIENT MANAGEMENT PLAN

Ahlem Farms Jerseys Owned By Manuel Azevedo 825 Ruble Rd. Crows Landing, CA 95313

Prepared By:



2857 Geer Road, Suite A Turlock, California 95382

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

DAIRY FACILITY INFORMATION

A. NAME OF DAIRY OR BUSINESS OPERATING	3 THE DAIRY: Ahlem Farms	Jerseys	
Physical address of dairy:			
825 Ruble RD	Crows Landing	Stanislaus	05313
Number and Street	City	County	Zip Code
Street and nearest cross street (if no address)			
Date facility was originally placed in operation:	01/01/1980		
Regional Water Quality Control Board Basin P	lan designation: San Joaquin	River Basin	
County Assessor Parcel Number(s) for dairy fa	-		
0053-0003-0008-0000 0058-0003-0007-		0058-0040-0015-0000	
B. OPERATOR NAME: Herrera, Rogelio		Telephone no.: (209) 6	32-5822
777 - 1 - 3		Landline	
24093 American AVE	Hilmar	CA	95324
Mailing Address Number and Street	City	State	e Zip Code
Operator should receive Regional Board co	prrespondence (check): [X]	Yes [] No	
C. LEGAL OWNER NAME: Azevedo, Manuel		Telephone no.: (209) 6	32-6393
1	113411	Landline	
2800 White RD	Turlock	CA	95380
Mailing Address Number and Street	City	State	e Zip Code
Owner should receive Regional Board corre	espondence (check): [X] Ye	s []No	
D. CONTACT NAME: Ramos, Joe		Telephone no.: (209) 2	50-2471
Title: Technical Service Provider		Landlin	e Gellular
2857 Geer RD, STE A	Turlock	CA	95382
Mailing Address Number and Street	City	State	e Zip Code

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:

2,500 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	1,085	220	354	336	153	164
Maximum count	2,175	325	725	925	300	300
Avg live weight (lbs)	1,000	1,000	750	550		
Daily hours on flush	20	15	6	6	6	24

Predominant milk cow breed: Jersey

Average milk production:

60 pounds per cow per day

B. IRRIGATION SOURCES

Irrigation Source Name	Туре	Nitrogen (mg/L)	Phosphorus (mg/L)	Potassium (mg/L)	Discharge Rate
T.I.D Canal	Surface water (canal, river)	0.67	0.00	0.00	12 cfs

C. NUTRIENT IMPORTS

No nutrient imports entered.

D. NUTRIENT EXPORTS

Nutrient Type/Name	Quantity	Moisture	Nitrogen	Phosphorus (as P2O5)	Potassium (as K2O)
Corral Solids	8,000.00 ton	33.0%	2.250%	1.330%	1.500%
Separated Solids Fall	8,250.00 ton	50.0%	2.000%	1.000%	1.750%
Separated Solids Spring	8,400.00 ton	50.0%	2.000%	1.000%	1.750%
Total nitrogen exported: 574,200.00 lbs					

574,200.00 lbs

Total phosphorus exported:

135,066.21 lbs

Total potassium exported:

375,305.25 lbs

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 adsorbtion/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

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

APPLICATION AREA

A. ASSESSOR PARCEL NUMBER: 0058-0003-0008-0000

Legal owner of parcel; Owned by Dairy

ASSESSOR PARCEL NUMBER: 0058-0003-0009-0000

Legal owner of parcel: Owned by Dairy

ASSESSOR PARCEL NUMBER: 0058-0003-0012-0000

Legal owner of parcel: Owned by Dairy

ASSESSOR PARCEL NUMBER: 0058-0003-0022-0000

Legal owner of parcel: Owned by Dairy

ASSESSOR PARCEL NUMBER: 0058-0003-0023-0000

Legal owner of parcel: Owned by Dairy

ASSESSOR PARCEL NUMBER: 0058-0004-0012-0000

Legal owner of parcel: Owned by Dairy

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

FIELD NAME: Borba	50			
Cropable acres:	15			
Predominant soil ty	pe: Sandy loam			
Do Irrigation syster	n head-to-head flow conditions exist on the field	d? []Yes [X]No	
Can fresh water for	r irrigation purposes be delived to the field year	round? [] Yes [X] No	
Can process waste	water be delivered to the field at agronomic rat	tes and times? [X	(] Yes [] No	
Tailwater managen	nent method: Drained to Carpenter East	- I www.		
Crops grown and	rotation:			
Crop Type		Plant Date	Harvest Date	Acres Planted
Oats, silage-soft o	lough	Late October	Early April	45
Corn, silage		Middle May	Middle September	45
FIELD NAME: Carpe	nter East			
Cropable acres:	38			
Predominant soil ty	/pe: Sandy loam			
Do irrigation syster	m head-to-head flow conditions exist on the field	d? []Yes [X]No	
Can fresh water fo	r irrigation purposes be delived to the field year	round? []Yes [X]No	
Can process waste	ewater be delivered to the field at agronomic ra	tes and times? [〉	K]Yes []No	
Tailwater manager	nent method: Tailwater Return To Top Of Field			
Crops grown and	rotation:			
Crop Type		Plant Date	Harvest Date	Acres Planted
Oats, silage-soft o	dough	Late October	Early April	38
Corn, silage		Middle May	Middle September	38
FIELD NAME: Carpe	nter West			
Cropable acres:	37			111111111111111111111111111111111111111
Predominant soil ty	ype: Sandy loam			
Do irrigation system	m head-to-head flow conditions exist on the fiel	ld? []Yes [X]No	******
Can fresh water fo	r irrigation purposes be delived to the field year	r round? []Yes [X]No	
Can process waste	ewater be delivered to the field at agronomic ra	tes and times? [3	X]Yes []No	
Tailwater manager	nent method: Drained to Carpenter East			
Crops grown and				
Crop Type	rotation:		1 11500	
	rotation:	Plant Date	Harvest Date	Acres Planted
Oats, silage-soft o		Plant Date Late October	Harvest Date Early April	Acres Planted

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

FIELD NAME: Heifer Ranch				
Cropable acres;10			-1	
Predominant soil type: Sandy loam				
Do irrigation system head-to-head flow cond	ditions exist on the field?	[]Yes	[X]No	
Can fresh water for irrigation purposes be d	lelived to the field year round?	[X]Yes	[] No	
Can process wastewater be delivered to the	e field at agronomic rates and tim	nes? [X]Yes	[] No	
Tailwater management method: Returned t	to retention pond			
Crops grown and rotation:				
Сгор Туре	Plant D	ate Ha	rvest Date	Acres Planted
Oats, silage-soft dough	Late Oc	ctober Ea	rly April	10
Corn, silage	Middle	May Mi	ddle September	10
FIELD NAME: Main 45				
Cropable acres: 45				
Predominant soil type: Sandy loam				
		1 13/	TV1 Na	
Do irrigation system head-to-head flow con-	ditions exist on the field?	[]Yes	[X] No	
Do irrigation system head-to-head flow cond Can fresh water for irrigation purposes be d			[X] No	
	delived to the field year round?	[] Yes		
Can fresh water for irrigation purposes be d	delived to the field year round? e field at agronomic rates and tin	[] Yes	[X] No	
Can fresh water for irrigation purposes be d Can process wastewater be delivered to the	delived to the field year round? e field at agronomic rates and tin	[] Yes	[X] No	
Can fresh water for irrigation purposes be d Can process wastewater be delivered to the Tallwater management method: Drained to	delived to the field year round? e field at agronomic rates and tin	[] Yes	[X] No	Acres Planted
Can fresh water for irrigation purposes be d Can process wastewater be delivered to the Tallwater management method: Drained to Crops grown and rotation:	delived to the field year round? e field at agronomic rates and tin o Carpenter East	[] Yes nes? [X] Yes Date Ha	[X] No [] N o	Acres Planted 45
Can fresh water for irrigation purposes be d Can process wastewater be delivered to the Tallwater management method: Drained to Crops grown and rotation: Crop Type	delived to the field year round? e field at agronomic rates and tin o Carpenter East Plant D	[] Yes nes? [X] Yes Date Ha	[X] No [] No arvest Date	
Can fresh water for irrigation purposes be d Can process wastewater be delivered to the Tallwater management method: Drained to Crops grown and rotation: Crop Type Oats, silage-soft dough	delived to the field year round? e field at agronomic rates and tin c Carpenter East Plant E Late O Middle	[] Yes nes? [X] Yes Date Ha	[X] No [] No arvest Date arly April	45
Can fresh water for irrigation purposes be d Can process wastewater be delivered to the Tallwater management method: Drained to Crops grown and rotation: Crop Type Oats, silage-soft dough Corn, silage	delived to the field year round? e field at agronomic rates and tin c Carpenter East Plant E Late O Middle	[] Yes nes? [X] Yes Date Ha	[X] No [] No arvest Date arly April iddle September	45
Can fresh water for irrigation purposes be d Can process wastewater be delivered to the Tallwater management method: Drained to Crops grown and rotation: Crop Type Oats, silage-soft dough Corn, silage C. LAND APPLICATION AREA FIELDS AND PAR	delived to the field year round? e field at agronomic rates and tin c Carpenter East Plant E Late O Middle	[] Yes nes? [X] Yes Date Hactober Ea May M Total harvests P	[X] No [] No arvest Date arly April iddle September	45
Can fresh water for irrigation purposes be d Can process wastewater be delivered to the Tallwater management method: Drained to Crops grown and rotation: Crop Type Oats, silage-soft dough Corn, silage C. LAND APPLICATION AREA FIELDS AND PAI Field name	delived to the field year round? e field at agronomic rates and tin c Carpenter East Plant D Late O Middle RCELS Cropable acres	[] Yes nes? [X] Yes Date Ha ctober Ea May M Total harvests P 2 0	[X] No [] No arvest Date arly April iddle September arcel number 058-0003-00080000	45
Can fresh water for irrigation purposes be d Can process wastewater be delivered to the Tallwater management method: Drained to Crops grown and rotation: Crop Type Oats, silage-soft dough Corn, silage C. LAND APPLICATION AREA FIELDS AND PAI Field name Borba 50	delived to the field year round? e field at agronomic rates and tin c Carpenter East Plant D Late O Middle RCELS Cropable acres 45	[] Yes nes? [X] Yes Date Hactober Ea May M Total harvests P 2 0 0 2 0	[X] No [] No arvest Date arly April iddle September arcel number 058-0003-00080000	45
Can fresh water for irrigation purposes be d Can process wastewater be delivered to the Tallwater management method: Drained to Crops grown and rotation: Crop Type Oats, silage-soft dough Corn, silage C. LAND APPLICATION AREA FIELDS AND PAI Field name Borba 50 Carpenter East	delived to the field year round? e field at agronomic rates and tin c Carpenter East Plant E Late O Middle RCELS Cropable acres 45	[] Yes nes? [X] Yes Date Ha ctober Ea May M Total harvests P 2 0 0 2 0 2 0	[X] No [] No arvest Date arly April iddle September arcel number 058-0003-00080000 058-0003-00090000	45 45
Can fresh water for irrigation purposes be d Can process wastewater be delivered to the Tallwater management method: Drained to Crops grown and rotation: Crop Type Oats, silage-soft dough Corn, silage C. LAND APPLICATION AREA FIELDS AND PAI Field name Borba 50 Carpenter East Carpenter West	delived to the field year round? e field at agronomic rates and tin c Carpenter East Plant D Late O Middle RCELS Cropable acres 45 38 37	[] Yes nes? [X] Yes Date Hactober Ea May M Total harvests P 2 0 0 2 0 2 0 2 0	[X] No [] No arvest Date arly April iddle September arcel number 058-0003-00080000 058-0003-00120000 058-0003-00120000	45 45
Can fresh water for irrigation purposes be d Can process wastewater be delivered to the Tallwater management method: Drained to Crops grown and rotation: Crop Type Oats, silage-soft dough Corn, silage C. LAND APPLICATION AREA FIELDS AND PAI Field name Borba 50 Carpenter East Carpenter West Heifer Ranch	delived to the field year round? e field at agronomic rates and time of Carpenter East Plant E Late O Middle RCELS Cropable acres 45 38 37 10	[] Yes nes? [X] Yes Date Ha ctober Ea May M Total harvests P 2 0 0 2 0 2 0 2 0 2 0	[X] No [] No arvest Date arly April iddle September 058-0003-00080000 058-0003-00120000 058-0003-00120000 058-0003-00120000	45 45

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

NUTRIENT BUDGET

A. NUTRIENT BUDGET FOR CROP: Borba 50 / Oats, silage-soft dough

Activity / Event Pre-irrigation prior to planting (with fertilizer) Nutrient source: Retention pond (lagoon) Application method: Pipeline	# of Evonts 1	N (lbs/acre) % avail. 50.0 62%	P (lbs/acre) % avail. 8.0 90%	K (lbs/acre) % avail. 60.0 90%	Total N (lbs/acre) 51.0
Irrigation Source	N (lbs/acre)	P (lbs/acre) k	(lbs/acre) R	untime (hrs)	
T.1.D Canal	1.0 1.0	0.0	0.0 0.0	24.0	
In season irrigation (with fertilizer) Nutrient source: Retention pond (lagoon) Application method: Pipeline	1	60.0 62%	10.0 90%	70.0 90%	60.0
In season irrigation (with fertilizer) Nutrient source: Retention pond (lagoon) Application method: Pipeline	1	40.0 62%	6.0 90%	50,0 90%	40.8
Irrigation Source	N (lbs/acre)	P (lbs/acre) k	К (lbs/acre) R	untime (hrs)	
T.I.D Canal	0.8	0.0	0.0	20.0	
In season Irrigation (with fertilizer) Nutrient source: Retention pond (lagoon) Application method: Pipeline	1	45.0 62%	7.0 90%	50.0 90%	45.0

	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	
Irrigation sources	1.8	0.0	0.0	
Existing soil nutrient content	0.0	0.0	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	195.0	31.0	230.0	
Other	0.0	0,0	0.0	
Atmospheric deposition	7.0			
Nutrients applied	203.8	31.0	230.0	
Potential crop nutrient removal	150.0	24.0	124.5	
Nutrient balance	53.8	7.0	105.5	
Applied to removal ratio	1.36	1.29	1,85	
Fresh water applied:	0.97 feet	Total harvests	: 1	

NUTRIENT BUDGET FOR CROP: Borba 50 / Corn, silage

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

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NUTRIENT BUDGET FOR CROP (CONTINUED): Borba 50 / Corn, silage

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 (wit	h fertilizer) ı pond (lagoon)		1	90.0 62%	14.0 90%	100.0	91.1
Irrigation Source		N	(lbs/acre) I	P (lbs/acre)	(lbs/acre) R	untime (hrs)	
T.I.D Canal			1.1 1.1	0.0 0.0	0.0 0.0	28.0	
In season irrigation (no fertilizer) Nutrient source: Water on Application method: Surface	ly		2	0.0 0%	0.0 0%	0.0 0%	1.
Irrigation Source		N	(lbs/acre)	P (lbs/acre)	K (lbs/acre) R	Runtime (hrs)	
T.I.D Canal			0,9 0,9	0,0 0.0	0.0 0.0	22.0	
In season irrigation (with fertilizer) Nutrient source: Retention Application method: Pipeline) n pond (lagoon)		4	50.0 62%	6.6 90%	60.0 90%	202.
Irrigation Source		N	(lbs/acre)	P (lbs/acre)	K (lbs/acre) F	Runtime (hrs)	
T.I.D Canal			0.7 0.7	0.0 0.0	0.0 0.0	18.0	
	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)				
Irrigation sources	5.8	0.0	0.0				
Existing soil nutrient content	0.0	0.0	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	290.0	40.4	340.0				
Other	0.0	0.0	0,0				
Atmospheric deposition	7.0						
Nutrients applied	302.8	40.4	340.0				
Potential crop nutrient removal	216.0	40.5	178,2				
Nutrient balance	86.8	-0.1	161.8				
Applied to removal ratio	1.40	1.00	1.91				
Fresh water applied:3.		otal harvests:					

Events

Activity / Event

Total N

% avail. (lbs/acre)

of N (lbs/acre) P (lbs/acre) K (lbs/acre)

% avail.

% avail.

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

NUTRIENT BUDGET FOR CROP (CONTINUED): Carpenter East / Oats, sliage-soft dough

Activity / Event			# of Events	N (lbs/acre) % avall.	P (lbs/acre) % avail.	K (lbs/acre) % avail.	Total N (lbs/acre)
Pre-irrigation prior to plan	Retention pond (lagoor	1)	1	50.0 62%	8.0 90%	60.0 90%	51.1
Irrigation Source	<u>F</u> :	N	(lbs/acre) 1	P (lbs/acre) k	(lbs/acre) R	untime (hrs)	
T.I.D Canal			1.1 1.1	0.0 0.0	0.0 0.0	24.0	
In season irrigation (with Nutrient source: F Application method: F	Retention pond (lagoor	(۱	1	60.0 62%	10.0 90%	70.0 90%	60.0
In season irrigation (with Nutrient source: Application method:	Retention pond (lagoor	٦)	1	40.0 62%	6.0 90%	50.0 90%	40.
Irrigation Source		N	(lbs/acre)	P (lbs/acre)	K (lbs/acre) R	untime (hrs)	
T.I.D Canal			0.8 0.8	0.0	0.0 0.0	16.0	
In season irrigation (with Nutrient source: [Application method:]	Retention pond (lagoor	n)	1	45.0 62%	7.0 90%	50.0 90%	45.
	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)				
Irrigation sources	1.9	0.0	0.0				
Existing soil nutrient con-	tent 0.0	0.0	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	195.0	31.0	230.0				
Other	0.0	0.0	0.0				
Atmospheric deposition	7.0						
Nutrients applied	203.9	31.0	230.0				
Potential crop nutrient re	moval 150.0	24.0	124.5				
Nutrient balance	53.9	7.0	105.5				
Applied to removal ratio	1.36	1.29	1.85				
Fresh water applied:	1.04 feet	Total harvests:	1				
ITRIENT BUDGET FOR C	ROP: Carpenter Eas	st / Corn, silage					
	F						

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

July 1, 2009 deadline

NUTRIENT BUDGET FOR CROP (CONTINUED): Carpenter East / Corn, silage

Activity / Event			# of Events	(K (lbs/acre) % avail.	Total N (lbs/acre)
Pre-irrigation prior to planting (with Nutrient source: Retention Application method: Pipeline	n fertilizer) pond (lagoor	1)	1	90.0 62%			91.1
Irrigation Source			N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Runtime (hrs)	
T.I.D Canal			1.1 1.1	0.0	0.0	24.0	
In season irrigation (no fertilizer) Nutrient source: Water onl Application method: Surface	у		2		0.0		1.7
Irrigation Source			N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Runtime (hrs)	
T.I.D Canal			0.9	0.0	0.0	18.0	
In season irrigation (with fertilizer) Nutrient source: Retention Application method: Pipeline	pond (lagoo	٦)	4	4 50. 629	0 6.6		202.9
Irrigation Source			N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Runtime (hrs)	
T.I.D Canal			0.7 0.7	0.0	0,0	15,0	
	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)				
Irrigation sources	5.7	0.0	0.0	o.			
Existing soil nutrient content	0.0	0.0	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	290.0	40.4	340.0				
Other	0.0	0.0	0.0)			
Atmospheric deposition	7.0						
Nutrients applied	302.7	40.4	340.0				15
Potential crop nutrient removal	216.0	40.5	178.2				
Nutrient balance	86.7	-0.1	161.8				
Applied to removal ratio	1.40	1.00	1.91				
Fresh water applied: 3.1	3 feet	Total harvest	s:1				
TRIENT BUDGET FOR CROP: ()	arnenter Mo	at / Oata pilos	o coff days				
	arpointer vve	ar vals, sila(ge-son dougn	ı			

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NUTRIENT BUDGET FOR CROP (CONTINUED): Carpenter West / Oats, silage soft dough

Activity / Event			# of Events	N (lbs/acre) % avail.	P (lbs/acre) % avail,	K (lbs/acre) % avail.	Total N
Pre-irrigation prior to plan	Retention pond (lagoor	n)	1	50.0 62%	% avail. 8.0 90%	% avail. 60.0 90%	(lbs/acre) 51.2
Irrigation Source		N	(lbs/acre) I	P (lbs/acre)	(lbs/acre) R	untime (hrs)	
T.I.D Canal			1.2 1.2	0.0	0.0	24.0	
In season irrigation (with Nutrient source: Application method:	Retention pond (lagoo	n)	1	60.0 62%	10.0 90%	70.0 90%	60.
In season irrigation (with Nutrient source: Application method:	Retention pond (lagoo	n)	1	40.0 62%	6.0 90%	50.0 90%	40.
Irrigation Source		N	(lbs/acre)	P (lbs/acre)	K (lbs/acre) R	luntime (hrs)	
T.I.D Canal			0.8 0.8	0.0 0.0	0.0	16.0	
In season irrigation (with Nutrient source: Application method:	Retention pond (lagoo	n)	1	45.0 62%	7.0 90%	50.0 90%	45.
	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)				
Irrigation sources	2.0	0.0	0.0				
Existing soil nutrient con	itent 0.0	0.0	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	195.0	31.0	230.0				
Other	0.0	0.0	0.0				
Atmospheric deposition	7.0						
Nutrients applied	204.0	31.0	230.0				
Potential crop nutrient re	emoval 150.0	24.0	124.5				
Nutrient balance	54.0	7.0	105.5				
Applied to removal ratio	1.36	1.29	1.85				
Fresh water applied:	1.07 feet	Total harvests					

Events

Activity / Event

Total N

% avail. (lbs/acre)

of N (lbs/acre) P (lbs/acre) K (lbs/acre)

% avail.

% avail.

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NUTRIENT BUDGET FOR CROP (CONTINUED): Carpenter West / Corn, silage

Activity / Event			# of Events	N (lbs/acre) % avall.	P (lbs/acre) % avail.	K (lbs/acre) % avail.	Total N (lbs/acre)
Pre-irrigation prior to plant Nutrient source: R Application method: P	etention pond (lagoon)	1	90.0 62%	14.0 90%	100.0 90%	91.2
Irrigation Source		1	V (lbs/acre)	⊃ (lbs/acre) k	(lbs/acre) R	untime (hrs)	
T.I.D Canal			1.2 1.2	0.0 0.0	0.0	24.0	
In season irrigation (no fer Nutrient source: W Application method: S	ater only		2	0.0 0%	0.0 0%	0.0 0%	1.8
Irrigation Source		1	V (lbs/acre) I	P (lbs/acre) k	(lbs/acre) R	luntime (hrs)	
T.I.D Canal			0,9 0.9	0.0 0.0	0.0 0.0	18.0	
In season irrigation (with f Nutrient source: R Application mothod: P	etention pond (lagoor	n)	4	50.0 62%	6.6 90%	60.0 90%	202.9
Irrigation Source		1	V (lbs/acre)	P (lbs/acre) k	(lbs/acre) F	Runtime (hrs)	
T.I.D Canal			0.7 0.7	0.0	0.0	15.0	
	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)				
Irrigation sources	5.9	0.0	0.0				
Existing soil nutrient conte	ent 0.0	0.0	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	290.0	40.4	340.0				
Other	0.0	0.0	0.0				
Atmospheric deposition	7.0						
Nutrients applied	302.9	40.4	340.0				
Potential crop nutrient ren	10val 216.0	40.5	178.2				
Nutrient balance	86.9	-0.1	161.8				
Applied to removal ratio	1.40	1.00	1.91				
Fresh water applied:	3,22 feet .	Total harvests	s: 1				

NUTRIENT BUDGET FOR CROP: Heifer Ranch / Oats, silage-soft dough

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

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NUTRIENT BUDGET FOR GROP (CONTINUED): Heifer Ranch / Oats, silage-soft dough

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 (with Nutrient source: Retention Application method: Pipeline	fertilizer) oond (lagoon)		1	50,0 62%	8.0 90%	60.0 90%	51.
Irrigation Source		N	(lbs/acre) F	(lbs/acre) k	(lbs/acre) R	untime (hrs)	
T.I.D Canal	80		1.1 1.1	0.0 0.0	0.0 0.0	6.0	
Application method: Pipeline	pond (lagoon)		1	60.0 62%	10.0 90%	70.0 90%	60.
In season irrigation (with fertilizer) Nutrient source: Retention Application method: Pipeline	pond (lagoon)		1	40.0 62%	6.0 90%	50.0 90%	40.
Irrigation Source		N	(lbs/acre) i	O (lbs/acre)	K (lbs/acre) F	tuntime (hrs)	
T.I.D Canel			0.9 0.9	0.0 0.0	0.0	5.0	
In season irrigation (with fertilizer) Nutrient source: Retention Application method: Pipeline	pond (lagoon)		1	45.0 62%	7.0 90%	50.0 90%	45.
	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)				
Irrigation sources	2.0	0.0	0.0				
Existing soil nutrient content	0.0	0.0	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	195.0	31.0	230.0				
Other	0.0	0.0	0.0				
Atmospheric deposition	7.0						
Nutrients applied	204.0	31.0	230.0				
Potential crop nutrient removal	150.0	24.0	124.5				
Nutrient balance	54.0	7.0	105,5				
Applied to removal ratio	1.36	1.29	1.85				
Fresh water applied: 1.09	feet T	otal harvests:	1				

NUTRIENT BUDGET FOR CROP: Heifer Ranch / Corn, silage

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

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NUTRIENT BUDGET FOR CROP (CONTINUED): Heifer Ranch / Corn, silage

Activity / Event			# of Events	N (lbs/acre) % avall.	P (lbs/acre) % avail.	K (lbs/acre) % avail.	Total N (lbs/acre)
Pre-irrigation prior to planting (w	n pond (lagoor	1)	1	90.0 62%	14.0 90%	100.0	91.4
Irrigation Source		N	(lbs/acre) F	(lbs/acre) k	(lbs/acre) R	untime (hrs)	
T.I.D Canal		*	1.4 1.4	0.0	0.0	8.0	
In season irrigation (no fertilizer) Nutrient source: Water o Application method: Surface	nly		2	0.0 0%	0.0 0%	0.0 0%	1.8
Irrigation Source		N	l-(lbs/acre) F	(lbs/acre) k	(lbs/acre) R	untime (hrs)	
T.I.D Canal			0.9	0.0	0.0 0.0	5.0	
In season irrigation (with fertilize Nutrient source: Retention Application method: Pipeline	n pond (lagoor	۱)	4	50.0 62%	6.6 90%	60.0 90%	202.9
Irrigation Source		N	l (lbs/acre) l	O (lbs/acre)	(lbs/acre) R	untime (hrs)	
T.I.D Canal			0.7 0.7	0.0 0.0	0.0	4.0	
	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)				
Irrigation sources	6.1	0.0	0.0				
Existing soil nutrient content	0.0	0.0	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	290.0	40.4	340.0				
Other	0.0	0.0	0.0				
Atmospheric deposition	7.0						
Nutrients applied	303.1	40.4	340.0				
Potential crop nutrient removal	216.0	40.5	178.2				
Nutrient balance	87.1	-0.1	161.8				
Applied to removal ratio	1.40	1.00	1.91				
Fresh water applied 3	.37 feet	Total harvests					

NUTRIENT BUDGET FOR CROP: Main 45 / Oats, silage-soft dough

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

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NUTRIENT BUDGET FOR CROP (CONTINUED): Main 45 / Oats, silage-soft dough

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 (wit Nutrient source: Retentior Application method: Pipeline	h fertilizer) n pond (lagoon))	1	50.0 62%	8.0 90%	60.0 90%	51.0
Irrigation Source		N	(lbs/acre) I	P (lbs/acre)	K (lbs/acre) R	untime (hrs)	
T.I.D Canal			1.0	0.0	0.0	24.0	
			1.0	0.0	0.0		
Application method: Pipeline	pond (lagoon)	1	60.0 62%		70.0 90%	60.0
In season irrigation (with fertilizer Nutrient source: Retentior Application method: Pipeline) n pond (lagoon)	1	40.0 62%		50.0 90%	40.8
Irrigation Source		N	(lbs/acre)	P (lbs/acre)	K (lbs/acre)	tuntime (hrs)	
T.I.D Canal			0.8 0.8	0.0	0.0	20.0	
In season irrigation (with fertilizer Nutrient source: Retentior Application method: Pipeline) n pond (lagoon)	1	45.0 62%		50.0 90%	45.0
E1							
	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)				
Irrigation sources	1.8	0.0	0.0				
Existing soil nutrient content	0.0	0.0	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	195.0	31.0	230.0				
Other	0.0	0.0	0,0				
Atmospheric deposition	7.0						
Nutrients applied	203.8	31.0	230.0				
Potential crop nutrient removal	150.0	24.0	124.5				
Nutrient balance	53.8	7.0	105.5				
Applied to removal ratio	1.36	1.29	1.85				
Fresh water applied: 0.9	97 feet	Total harvests:	1				
NUTRIENT BUDGET FOR CROP: N	Main 45 / Corn,	silage					
Activity / Event			# of Events	N (lbs/acre % avail		K (lbs/acre) % avail.	Total N (lbs/acre)

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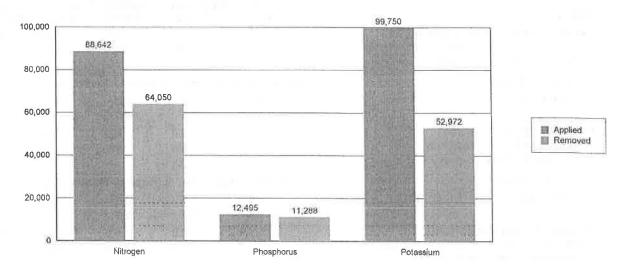
NUTRIENT BUDGET FOR CROP (CONTINUED): Main 45 / Corn, silage

·	,						
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 (with	fertilizer) oond (lagoor	(۱	1	90.0 62%	14.0 90%	100.0	91.1
Irrigation Source		N	(lbs/acre)	P (lbs/acre)	K (lbs/acre)	Runtime (hrs)	
T.I.D Canal			1.1 1.1	0.0	0.0	28.0	
In season irrigation (no fertillzer) Nutrient source: Water only Application method: Surface			2	0.0 0%	0.0 0%	0.0 0%	1.6
Irrigation Source		N	(lbs/acre) I	P (lbs/acre) I	K (lbs/acre) F	Runtime (hrs)	
T.I.D Canal			0.8 0.8	0.0 0.0	0.0 0.0	20.0	
In season irrigation (with fertillzer) Nutrient source: Retention Application method: Pipeline	pond (lagoor	n)	4	50.0 62%	6.6 90%	60.0 90%	202.6
Irrigation Source		N	(lbs/acre)	P (lbs/acre)	K (lbs/acre) F	Runtime (hrs)	
T.I.D Canal			0.6	0.0	0.0	16.0	
			0.6	0.0	0.0		
	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)				
Irrigation sources	5.3	0,0	0.0				
Existing soil nutrient content	0.0	0,0	0.0				
Plowdown credit	0.0	0,0	0.0				
Commercial fertilizer	0.0	0.0	0.0		G.		
Dry manure	0.0	0.0	0.0				
Liquid manure	290.0	40.4	340.0				
Other	0.0	0.0	0.0				
Atmospheric deposition	7.0						
Nutrients applied	302.3	40.4	340.0				
Potential crop nutrient removal	216.0	40.5	178.2				
Nutrient balance	86.3	-0.1	161.8				
Applied to removal ratio	1,40	1.00	1.91				
Fresh water applied: 2.9	feet	Total harvests:	1				

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NUTRIENT APPLICATIONS, POTENTIAL REMOVAL, AND BALANCE

A. POUNDS OF NUTRIENT APPLIED VS. CROP REMOVAL POTENTIAL



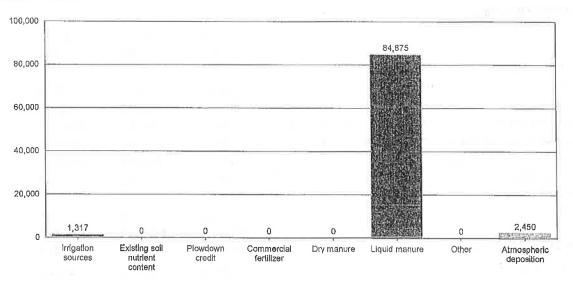
	Total N (lbs)	Total P (lbs)	Total K (lbs)
Irrigation sources	1,317.2	0.0	0.0
Existing soil nutrient content	0.0	0,0	0.0
Plowdown credit	0.0	0.0	:0.0
Commercial fertilizer	0,0	0.0	0.0
Dry manure	0.0	0.0	0.0
Liquid manure	84,875.0	12,495 0	99,750.0
Other	0.0	0.0	0.0
Atmospheric deposition	2,450.0		
Nutrients applied to all crops	88,642.2	12,495.0	99,750.0
Potential crop nutrient removal	64,050.0	11,287.5	52,972.5
Nutrient balance	24,592.2	1,207.5	46,777.5
Applied to removal ratio	1,38	1.11	1.88

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B. POUNDS OF NITROGEN APPLIED BY NUTRIENT SOURCE



	Total N (lbs)	Total P (lbs)	Total K (lbs)
Irrigation sources	1,317.2	0.0	0.0
Existing soil nutrient content	0.0	0,0	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	84,875.0	12,495.0	99,750.0
Olher	0.0	0.0	0.0
Atmospheric deposition	2,450.0		
Nutrients applied to all crops	88,642.2	12,495.0	99,750.0
Potential crop nutrient removal	64,050.0	11,287.5	52,972.5
Nutrient balance	24,592.2	1,207.5	46,777.5
Applied to removal ratio	1.38	1.11	1.88

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NUTRIENT BALANCE

A. WHOLE FARM BALANCE

	Total N (lbs)	Total P (lbs)	Total K (lbs)
Nutrients in storage from herd*	(125)	(155)	(100)
Daily gross	2,582.6	421,5	1,102.0
Annual gross	942,634.7	153,851.5	402,242.8
Net to pond storage after ammonia losses (30% loss applied)	472,810.4	110,669.0	335,202.3
Net to drylot storage after ammonia losses (30% loss applied)	187,033.9	43,182.4	121,619.4
Net in storage (30% loss applied)	659,844.3	153,851.5	456,821.7
Irrigation sources	1,317.2	0.0	0.0
Atmospheric deposition	2,450.0		
Imports	0.0	0.0	0.0
Exports	574,200.0	135,066.2	375,305.3
Potential crop nutrient removal	64,050.0	11,287.5	52,972.5
Nutrient balance	25,361.5	7,497.8	28,544.0
Nutrlent balance ratio	1.40	1.66	1.54

^{*} Potassium excretion from milk cows and dry cows only.

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SAMPLING AND ANALYSIS PLAN

A. MANURE SAMPLING AND ANALYSIS PLAN

Minimum data collection requirements

Frequency Annually Sampling Methods

Annual estimation for total manure dry weight applied to each field will be quantified using the following:

Source
Corral solids
Settling basin solids
Mechanical separator
solids

Field Analytes

Total dry weight (tons) manure applied annually to each land application area, and total dry weight (tons) manure exported offsite annually Lab Analytes None required

Dry weight applied from a source to a crop per application event = weight applied * (1 - (percent moisture / 100)) Dry weight applied to crop per application event = sum of dry weights applied from each source Dry weight applied to a crop = sum of dry weights applied during each application Dry weight applied to a field = sum of dry weights applied to each crop

Annual estimation for total manure dry weight exported will be quantified using the following:

Dry weight exported from a source per event = weight exported * (1 - (percent moisture / 100))
Dry weight exported per event = sum of dry weights exported from each source
Dry weight exported to any offsite destination = sum of dry weights exported per event

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A. MANURE SAMPLING AND ANALYSIS PLAN (CONTINUED)

Minimum data collection requirements

Frequency	Sampling Methods	Source	Fleld Analytes	Lab Analyles
Twice per year	For each manure source, a composite sample per the "Approved Sampling Procedures for Nutrient and Groundwater Monitoring at Existing Milk Cow Dairles" will be collected.	Corral solids Settling basin solids Mechanical separator solids	None required	Total nitrogen, total phosphorus, total potassium, and percent moisture
Once every two years (biennially)	For each manure source, a composite sample per the "Approved Sampling Procedures for Nutrient and Groundwater Monitoring at Existing Milk Cow Dairies" will be collected.	Corral solids Settling basin solids Mechanical separator solids	None required	General minerals, including: calcium, magneslum, sodium, solfate, chloride Flxed solids (ash)
Each application to each land application area	For each applied manure source, a composite sample per the "Approved Sampling Procedures for Nutrient and Groundwater Monitoring at Existing Milk Cow Dalries" will be collected. For each applied manure source, a scaled weight by truckload will be recorded.	Corral solids Settling basin solids Mechanical separator solids	Date applied and total weight (tons) applied	Percent moisture

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A. MANURE SAMPLING AND ANALYSIS PLAN (CONTINUED)

Minimum data collection requirements

Frequency

Each offsite export of manure

Sampling Methods

For each manure source exported, a composite sample

"Approved Sampling Procedures for Nutrient and

Monitoring at Existing Milk Cow Dairies" will

be collected.

Groundwater

For each manure source exported, a scaled weight by truckload will be recorded.

Source

Corral solids

Settling basin solids Mechanical separator

solids

Field Analytes

Date exported and total weight (tons)

exported

Lab Analytes

Percent moisture

B. PROCESS WASTEWATER SAMPLING AND ANALYSIS PLAN

Minimum data collection requirements

Frequency

Anually

Sampling Methods

A composite or grab sample prior to

blending with irrigation

water per the

"Approved Sampling Procedures for Nutrient and Groundwater

Monitoring at Existing Milk Cow Dairies" will

be collected.

Once every two years

(biennially)

For each pond, a composite or grab

sample per the "Approved Sampling Procedures for Nutrient and Groundwater

Monitoring at Existing Milk Cow Dairies" will

be collected.

Source

WWS 1 None required

Fleld Analytes Lab Analytes

pH, total dissolved solids, electrical conductivity, nitrate-nitrogen, ammonion-nitrogen, total Kjeldahl nitrogen, total phosphorus, and

total potassium

None required

General minerals,

including:

calcium, magnesium, sodium, bicarbonate, carbonate, sulfate,

and chloride

WW\$ 1

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B. PROCESS WASTEWATER SAMPLING AND ANALYSIS PLAN (CONTINUED)

Minimum data collection requirements

Frequency

Sampling Methods

Source

Field Analytes

Lab Analytes

Each application

For each pond, a composite or grab sample per the "Approved Sampling Procedures for Nutrient and

Date applied and WWS 1 volume (gallons or

None required

Groundwater Monitoring at Existing Milk Cow Dairies" will

be collected.

acre-inches) applied

Quarterly during one application event

For field

measurement: For each pond, a composite or grab sample per the "Approved Sampling Procedures for Nutrient and Groundwater Monitoring at Existing Milk Cow Dairies" will **WWS 1**

Date applied and electrical conductivity

Nitrate-nitrogen (only when pond is aerated), un-ionized ammonia-nitrogen, total Kjeldahl nitrogen, total phosphorus, total potassium, and total dissolved solids

For laboratory analyses: For each pond, a composite or grab sample per the "Approved Sampling

be collected.

Procedures for Nutrient and Groundwater Monitoring at Existing

Milk Cow Dairies" will

be collected.

C. SOIL SAMPLING AND ANALYSIS PLAN

Minimum data collection requirements

Frequency

Sampling Methods

Source

Field Analytes

Lab Analytes

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C. SOIL SAMPLING AND ANALYSIS PLAN (CONTINUED)

Minimum data collection regulrements

Frequency	۲
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Spring pre-plant for each crop

Sampling Methods

For each field, a composite sample per the "Approved

Sampling Procedures for Nutrient and Groundwater Monitoring at Existing

Milk Cow Dairles" will be collected.

Source

acres

Borba 50-45 acres Main 45-45 acres Carpenter East-38

Carpenter West-37

acres Heifer Ranch-10

acres

Field Analytes

None required

Lab Analytes

0 to 1 foot:

Nitrate-nitrogen and organic matter

1 to 2 foot: Nitrate-nitrogen

Once every five years for each land

application area (may be distributed over a 5-year period by sampling 20% of the land application areas annually)

For each field, a composite sample per the "Approved Sampling Procedures for Nutrient and

Groundwater Monitoring at Existing Milk Cow Dairies" will be collected.

Borba 50-45 acres Main 45-45 acres Carpenter East-38

açreş

Carpenter West-37 acres

Heifer Ranch-10 acres

None required

Soluble phosphorus

D. PLANT TISSUE SAMPLING AND ANALYSIS PLAN

Frequency

Each crop harvest from each land application area

Sampling Methods

For each field and crop, a composite sample per the "Approved Sampling Procedures for Nutrient and Groundwater Monitoring at Existing Milk Cow Dairies" will

For each field and crop, a scaled weight by truckload will be recorded.

be collected.

Source

Borba 50-oat sllage/corn silage Main 45 oat silage/corn silage Carpenter East-oat silage/corn silage Carpenter West-oat silage/corn silage Heifer Ranch-oat silage/com silage

Fleld Analytes Date harvested and total weight (tons) of harvested material removed from each land application area Lab Analytes

Minimum data collection requirements

Percent wet weight of harvested plant removed

Laboratory analyses for total nitrogen, total phosphorus, total potassium (expressed on a dry weight basis), fixed solids (ash), and percent moisture

E. IRRIGATION WATER SAMPLING AND ANALYSIS PLAN

Minimum data collection requirements

Frequency

Sampling Methods

Source

Field Analytes

Lab Analytes

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

E. IRRIGATION WATER SAMPLING AND ANALYSIS PLAN (CONTINUED)

Minimum data collection requirements

rrequency
Each fresh water
irrigation event for
each land application
area

Eroguanau

T.I.D Canal- flow rate multiplied by runtime

Field Analytes

Date applied and volume (gallons or acre-inches) applied

Lab Analytes None required

One irrigation event during each irrigation season during actual irrigation events – for each irrigation water source (well and canal) For each irrigation source, a grab sample per the "Approved Sampling Procedures for Nutrient and Groundwater Monitoring at Existing Milk Cow Dairies" will be collected. In lieu of sampling the irrigation water, the Discharger may provide equivalent data from the local irrigation district.

T.I.D Canal

None required

Electrical conductivity, total dissolved solids, and total nitrogen

F. GROUNDWATER MONITORING SAMPLING AND ANALYSIS PLAN

Frequency
Every five years (may be distributed over a 5-year period by sampling 20% of the wells annually)

Sampling Methods
For each domestic
and agricultural supply
well, a grab sample
per the "Approved
Sampling Procedures
for Nutrient and
Groundwater
Monitoring at Existing
Milk Cow Dairies" will
be collected.
For each domestic

Source
Domestic Well Barn Domestic Well Home Feedlot Well

MInîmum data	collection requirements
Fleld Analytes	Lab Analytes
None required	General minerals including:

Lab Analytes

General minerals,
including:
calcium, magnesium,
sodium, bicarbonate,
carbonate, sulfate,
chloride

Total dissolved solids

Annually

For each domestic and agricultural supply well, a grab sample per the "Approved Sampling Procedures for Nutrient and Groundwater Monitoring at Existing Milk Cow Dairies" will be collected.

Domestic Well Barn Domestic Well Home Feedlot Well

Electrical conductivity and ammonion-nitrogen

Nitrate-nitrogen,

If field measurement indicates the presence of ammonium-nitrogen, the Discharger shall collect a sample for laboratory analysis of ammonium-nitrogen.

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

NUTRIENT MANAGEMENT PLAN REVIEW

A. NUTRIENT MANAGEMENT PLAN REVIEW

Person who created the NMP:

Ramos, Joe

See above for contact information.

Date the NMP was drafted:

08/14/2020

Person who approved the final NMP: Ramos, Joe

See above for contact information.

Date of NMP implementation:

08/14/2020

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.
- 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.

drainage easements.		
Application area map reference number:	Figure 3-5	

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.
- Information on who owns or leases the field

 Non-application area map reference number: N/A

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:	Figure 3-5

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 Roport General Order No. R5-2007-C035, Altachment C July 1, 2009 deadline

SAMPLING AND ANALYSIS PLAN CERTIFICATION

59 1171	FINA VIAN WAVEL SIS LEVIN CEL	RITEICATION	
A, DAIRY FACILITY INFORMATION		× 1	
Name of dairy or business operating the dair	V: Ahlem Farme Joseph		
Physical address of dairy:	TARRATT BATTO DELECTS		
825 Rubte RD	Crows Landing		
Physical Address Number and Street	City	Stanislaus County	95313
Street and nearest cross street (if no addres	s):		Zlp Code
3. DOCUMENTATION OF QUALIFICATIONS A	ND PLAN DEVELORMENT		
I certify that I meet the requirements as a control of Waste Discharge Requirements General	addition to the state of	trient management plans a nat I prepared the Sampling	as described in Atlachment g and Analysis plan .
Technical Service Provider			
TITLE/QUALIFICATIONS OF CERTIFIED NUTR	IEN'T MANAGEMENT SPECIALIST		
2000 Anni Amerikan Sala Sala Sala Sala Sala Sala Sala Sa			
SIGNATURE OF TRAINED PROFESSIONAL		****	
Joe Ramos			DATE
PRINT OR TYPE NAME			
2857 Geor RD, STE A; Turlock, CA 95382			
MAILING ADDRESS			
(209) 250-2471			
PHONE NUMBER			
C. OWNER AND/OR OPERATOR CERTIFICAT			
I certify under penalty of law that I have per all attachments and that, based on my inqu that the information is true, accurate, an information, including the possibility of line a	rl complete 1	r with the information subr aly responsible for obtainin thero are significant per	nitted in this document and ig the information, I believe naities for submitting false
manuel Azeve	do -	and the state of t	1 d data
SIGNATURE OF OWNER OF FACILITY	The state of the s	E OF OPERATOR OF FACILI	CTV
Manuel Azevedo			11.7
PRINT OR TYPE NAME	Rogello He	IYPE NAME	
9-8-2020	CHIN OR	CLUE IAWAS	
DATE	DATE		

Nutriont Management Plan Roport General Order No. R5-2007-0035, Altachment C July 1, 2009 deadline

4 44 19-4			-
NUTRIENT	BIRCOGET	CERTIFIC	ATION

NUTRIENT BU	DGET CERTIFICATION		
L DAIRY FACILITY INFORMATION			
Name of dairy or business operating the dairy: Ahlem Farm	n 1		
Physical address of dairy:	a Jerseys		
895 Cobla DD	AND MARKET STATE OF THE CONTRACT OF		
Number and Street City	s Landing	Stanislaus	95313
Street and nearest cross street (if no address):		County	Zlp Codo
3. DOCUMENTATION OF QUALIFICATIONS AND PLAN DEVE	T) ODARTAM		
I certify that I meet the requirements as a certified specialis C of Waste Discharge Requirements General Order No. R6-	4 8 8 8	management repared the N	plans as described in Altachment utrient Budget plan.
Technical Service Provider			
TITLE/QUALIFICATIONS OF CERTIFIED NUTRIENT MANAGEM	ENT SPECIALIST		
	in the office of		
SIGNATURE OF TRAINED PROFESSIONAL			
When all the			DATE
Joe Ramos PRINT OR TYPE NAME		nace and the street	
	The state of the s		
2857 Geer RD, STE A; Turlock, CA 95382			
MAILING ADDRESS			
(209) 250-2471			
PHONE NUMBER			
OWNER AND/OR OPERATOR CERTIFICATION			
I certify under penalty of law that I have personally examine all attachments and that, based on my inquiry of those Indi that the Information Is true, accurate, and complete. I information, including the possibility of fine and imprisonmen	man with the state of the state of	lhe informati ponsible for arc signific	on submitted in this document and obtaining the Information, I believe ant penalties for aubmitting falso
01-			الإستالية
Manuel 11200012			7,4
Manuel Azevote SIGNATURE OF OWNER OF FACILITY	The state of the s	C2572	
SIGNATURE OF OWNER OF FACILITY	SIGNATURE OF O	PERATOR OF	FACILITY
SIGNATURE OF OWNER OF FACILITY Manuel Azevedo	SIGNATURE OF O Rogello Herrera		FACILITY
SIGNATURE OF OWNER OF FACILITY	SIGNATURE OF O		FACILITY

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

825 Ruble RD	Crows Landing	Stanisla	US	95313
Number and Street	City	County		Zip Code
Street and nearest cross street (if no address):	177-1170-1170-1170-1170-1170-1170-1170-			
perator name: Herrera, Rogelio		Telephone no.:	(209) 632-5	822
2-37/20-3-30-3			Landline	Cellular
24093 American AVE	Hilmar		CA	95324
Mailing Address Number and Street	City		State	Zip Code
egal owner name: Azevedo, Manuel		Telephone no.:	(209) 632-6	393
· · · · · · · · · · · · · · · · · · ·			Landline	Cellular
2800 White RD	Turlock		CA	95380
Mailing Address Number and Street	City		State	Zip Code

General Order No. R5-2007-0035, Attachment C

July 1, 2009 deadline

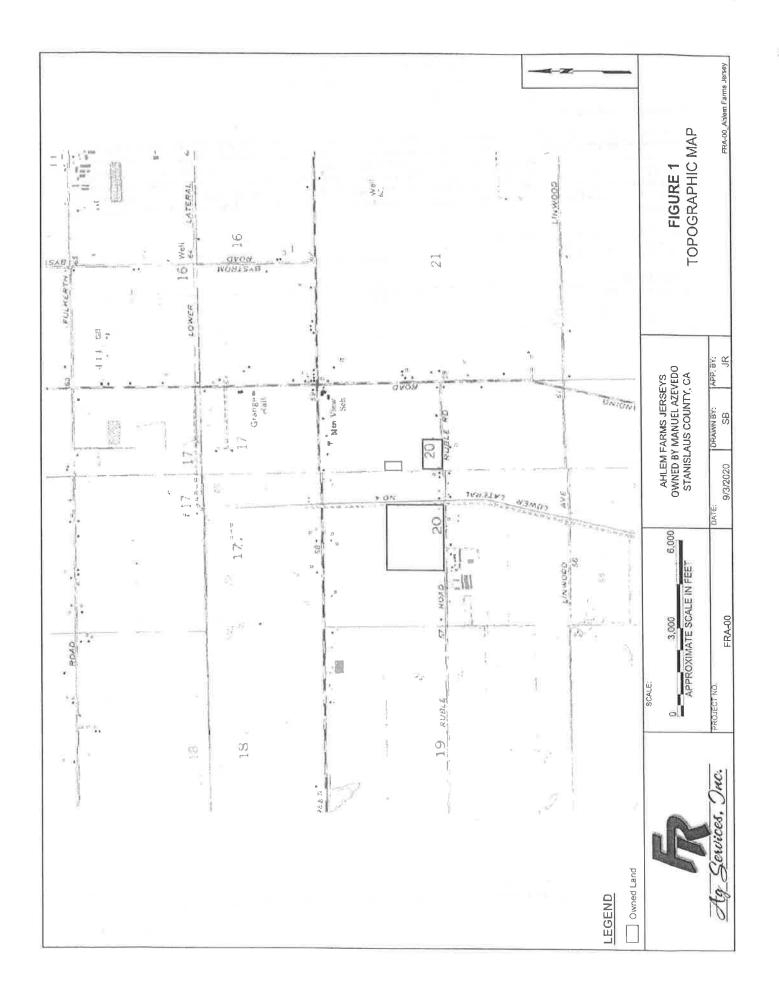
The state of the s
B. STATEMENT OF COMPLETION DUE 1 JULY 2008
I have completed the following items of the Nutrient Management Plan (check the boxes of completed sections), which are due 1 July 2008:
Item I.A.1 Land Application Information Identification of land used for manure application and needed 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 normanure 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 3 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, tailwate 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 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 a required in the General Order?
☐ Yes ☐ No

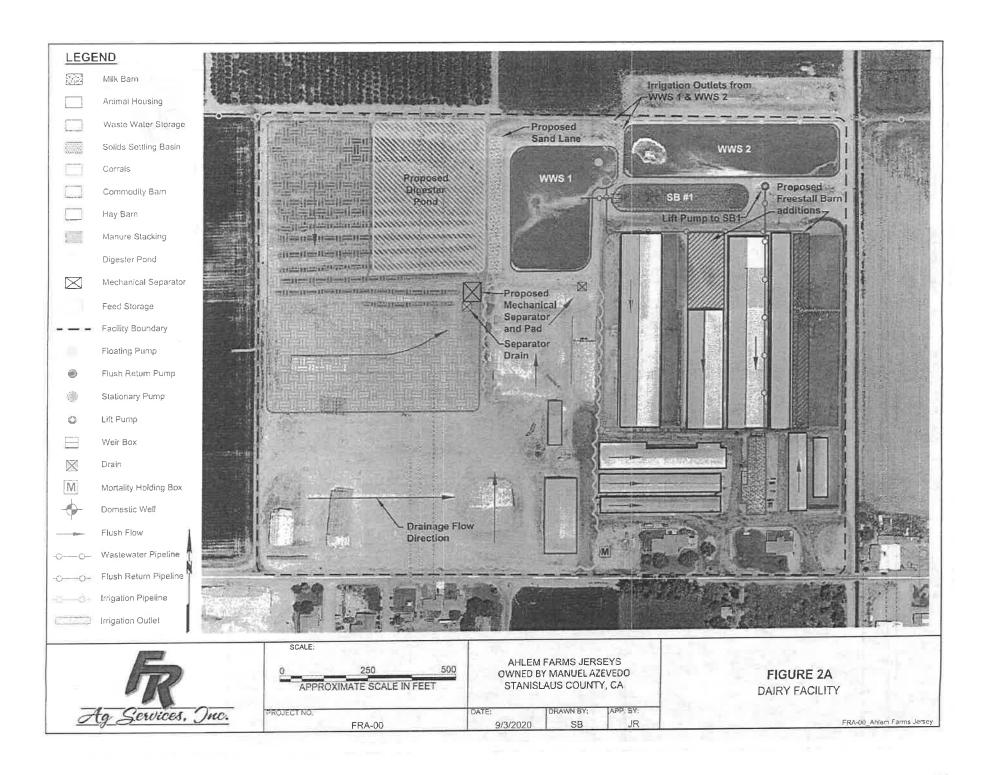
Nutrient Management Plan Report General Order No. R5-2007-0035, Attachment C July 1, 2009 deadline

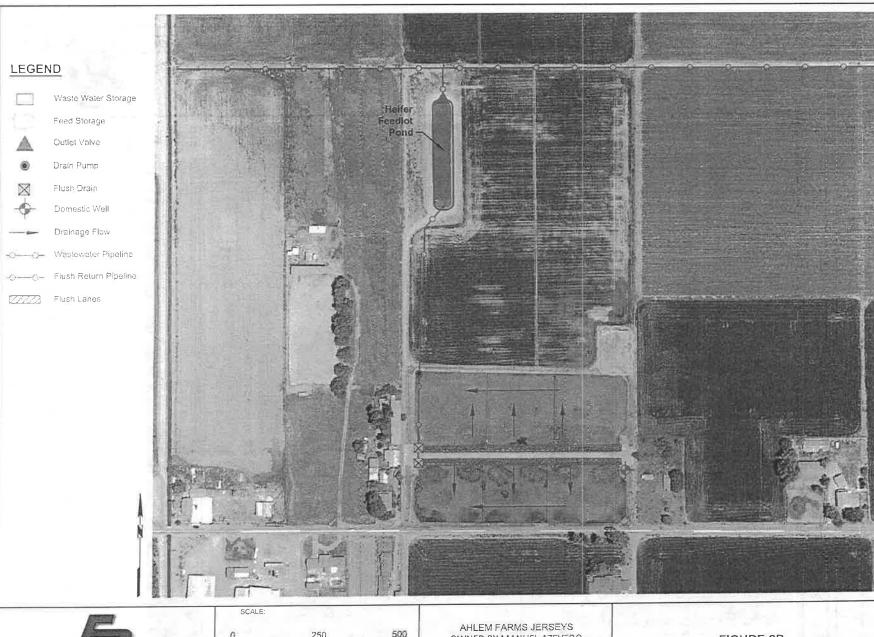
E. CERTIFICATION STATEMENT

I carlify 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 carlified the items requiring such cartification 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 imprisonment.

momuel Asecreta	and and
SIGNATURE OF OWNER OF FACILITY	SIGNATURE OF OPERATOR OF FACILITY
Manuel Azevedo	Rogello Herrera
PRINT OR TYPE NAME 9-8-2020	PRINT OR TYPE NAME
DATE	DATE







Ag Services, Inc.

0 250 500
APPROXIMATE SCALE IN FEET

AHLEM FARMS JERSEYS OWNED BY MANUEL AZEVEDO STANISLAUS COUNTY, CA

PROJECT NO. DATE: | DRAWN BY: | APPL BY: | FRA-00 | 9/3/2020 | SB | JF

FIGURE 2B
HEIFER FEEDLOT

FRA-00 Anlem Farms Jersey



Field Boundary

Irrigation Pipeline

Drain Pipeline

Irrigation Flow

Facility Boundary

Tailwater Pump

0 Inlet Storage

X Drain

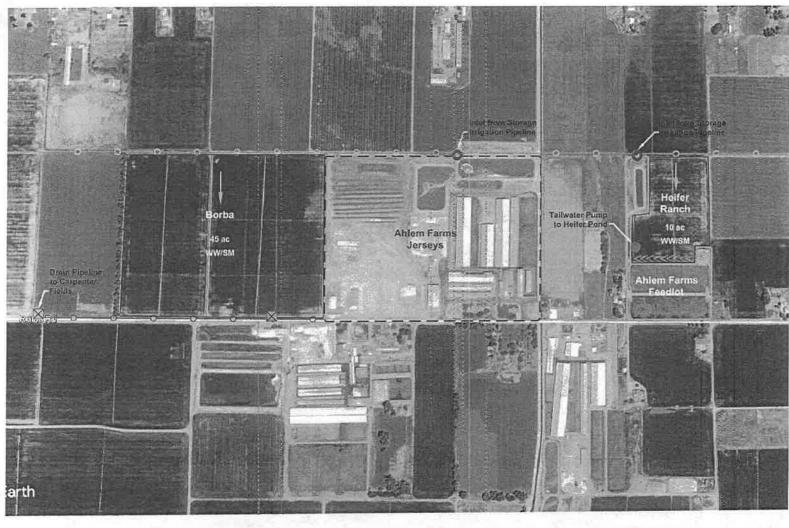
WW

Tailwater >>>>

Wastewater

SM

Solid Manure





0	600	1,20
0	600	1,2

FRA-00

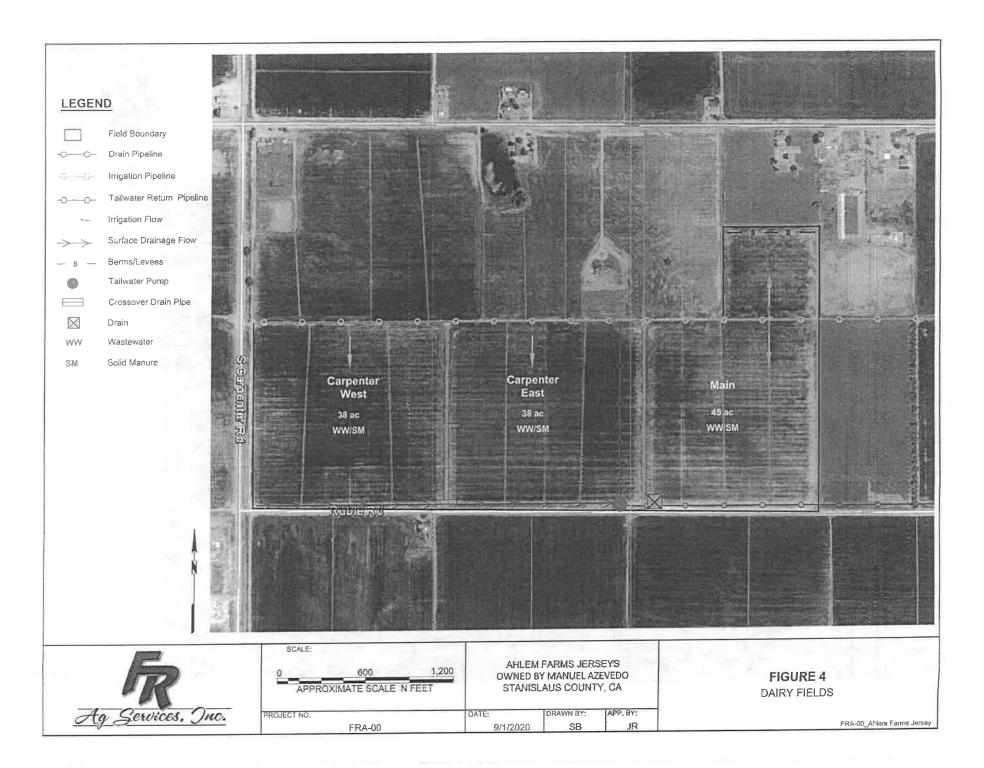
PROJECT NO.

AHLEM FARMS JERSEYS OWNED BY MANUEL AZEVEDO STANISLAUS COUNTY, CA

APP. BY: DRAWN BY: DATE: JR 9/1/2020 SB

FIGURE 3 DAIRY FIELDS

FRA-0G_Ahlam Farms Jersey





LAND APPLICATION AREA FIELD INFORMATION ATTACHMENT

DAIRY NAME: AHLEM FARMS JERSEYS

DAIRY ADDRESS: 825 RUBLE RD. CROWSLANDING, CA 95313

APN	FIELD ID	ACRES	CROPS GROWN	OPERATED BY DAIRY OWNER	LEASED BY DAIRY OPERATOR	LEASED BY OTHER	NUTRIENTS APPLIED
0058-0003-0009-0000	Borba	45	Oats/Corn Silage	X			Wastewater/Solid Manure
0058-0003-0012-0000	Carpenter East	38	Oats/Corn Silage	X			Wastewater/Solid Manure
0058-0003-0012-0000	Carpenter West	37	Oats/Corn Silage	X			Wastewater/Solid Manure
0058-0003-0022-0000	Main 45	45	Oats/Corn Silage	X			Wastewater/Solid Manure
0058-0003-0023-0000							
0058-0004-0012-0000	Heifer Feedlot	10	Oats/Corn Silage	X			Wastewater/Solid Manure
					10		