

OK

Waste Management Plan (WMP)

for

Henry Tosta Dairy

20662 San Jose Road
Tracy, California 95304

SAN JOAQUIN COUNTY

Submitted to:

Central Valley

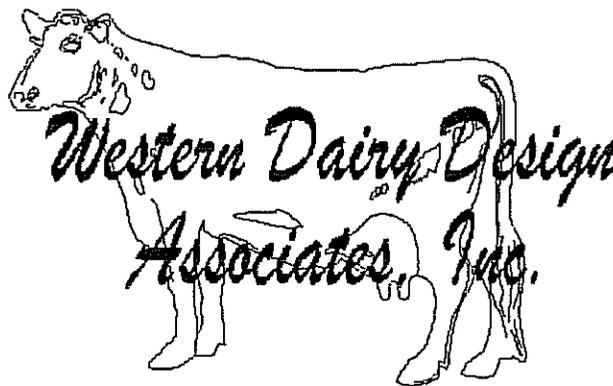
Regional Water Quality Control Board

Sacramento Office

11020 Sun Center Drive #200, Rancho Cordova CA 95670

July 1, 2010

Prepared by:



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David Avila, President
Western Dairy Design Associates, Inc.

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1. WASTE MANAGEMENT PLAN REPORT (WMP)

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

CONTACT NAME: <u>Gillespie, Paul</u>	<u>Telephone no.:</u> <u>(209) 742-5903</u>		
		<u>Landline</u>	<u>Cellular</u>
<u>Title:</u> <u>Registered Civil Engineer</u>			
<u>4339 Buckeye Creek RD</u>	<u>Mariposa</u>	<u>CA</u>	<u>95338</u>
<u>Mailing Address Number and Street</u>	<u>City</u>	<u>State</u>	<u>Zip Code</u>

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HERD AND MILKING EQUIPMENT

A. HERD AND MILKING

The existing milk cow dairy is currently regulated under the General Order.

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:

1,196 milk and dry cows combined (regulatory review is required for expansions of 15% above baseline values)
1,375 milk and dry cows combined + 15% (pre-expansion limit)

Type of Animal	Present Count	Maximum Count	Daily Flush Hours	Avg Live Weight (lbs)
Milk Cows	1,199	1,241	3	1,400
Dry Cows	130	134	0	1,500
Bred Heifers (15-24 mo.)	0	0	0	0
Heifers (7-14 mo.)	150	155	0	750
Calves (4-6 mo.)	150	155	0	
Calves (0-3 mo.)	0	0	0	

Predominant milk cow breed: Holstein
 Average milk production: 56 pounds per cow per day
 Average number of milk cows per string sent to the milkbarn: 240 milk cows per string
 Number of milkings per day: 2.0 milkings per day
 Number of times milk tank is emptied/filled each day: 1.0 per day
 Number of hours spent milking each day: 18.0 hours per day

B. MILKBARN EQUIPMENT AND FLOOR WASH

Bulk tank wash and sanitizing: 3.0 run cycles/wash
 Bulk tank wash vat volume: 30 gallons/cycle
 Bulk tank wash wastewater: 90.0 gallons/day
 Pipeline wash and sanitizing: 3.0 run cycles/wash
 Pipeline wash vat volume: 30 gallons/cycle
 Pipeline wash wastewater: 180.0 gallons/day
 Reused / recycled water is the source of parlor floor wash water: Yes No
 Milkbarn / parlor floor wash volume: 1,000 gallons/day
 Plate coolers type: None
 Plate coolers volume: 0 gallons/day
 Vacuum pumps / air compressors / chillers type: Well Water Cooled (Water Reused/Recycled)
 Vacuum pumps / air compressors / chillers volume: 3,000 gallons/day
 Milkbarn and equipment wastewater volume generated daily: 3,270 gallons/day

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C. OTHER WATER USES

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

	Milk Cows	Dry Cows	Bred Heifers (15-24 mo.)	Bred Heifers (7-14 mo.)	Calves (4-6 mo.)	Calves (0-3 mo.)
Number of cows drinking from reusable water:	0	0	0	0	0	0
	of 1,199	of 130	of 0	of 150	of 150	of 0
Gallons per head per day:	0	0	0	0	0	0

Total reusable water consumed by herd: 0 gallons/day

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

Number of sprinklers in the holding pen: 0 sprinklers

Duration of each sprinkler cycle: 2.0 minutes

Number of sprinkler pen runs/milking: 2 cycles/milking

Flow rate for each sprinkler head: 2.0 gallons/minute

Total sprinkler pen wastewater volume: 0 gallons/day

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

D. MISCELLANEOUS EQUIPMENT

No miscellaneous equipment entered.

E. MILKBARN AND EQUIPMENT SUMMARY

Number of days in storage period: 120 days

Water available for reuse/recycle: 3,000 gallons/day

Recycled water reused: 1,000 gallons/day

Recycled water leaving system: 0 gallons/day

Reusable water balance: 2,000 gallons/day

Volume of milkbarn and equipment wastewater generated for storage period: 392,400 gallons/storage period

MANURE AND BEDDING SOLIDS

A. IMPORTED AND FACILITY GENERATED BEDDING

Bedding Type	Imported or Generated (tons)	Density (lbs/cu. ft.)	Applied Separation Efficiency (default)	Solids to Pond (cu. ft./period)
Facility generated bedding	0	40.0	50%	0
Total:				0

B. SOLIDS SEPARATION PROCESS

Combined manure solids separation efficiency (weight basis): 80 %

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

Lagoon 1 (Settling Pond)

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C. MANURE AND BEDDING SOLIDS SUMMARY

	cubic feet		gallons	
	day	storage period	day	storage period
Manure generated by the herd (pre-separation):	2,961.03	355,324	22,150.05	2,658,006
Manure generated by the herd sent to pond(s):	241.47	28,977	1,806.35	216,762
Manure generated by the herd sent to dry lot(s):	2,634.65	316,158	19,708.57	2,365,028
Manure solids (herd) removed by separation:	41.10	4,932	307.46	36,896
Liquid component in separated solids not sent to pond(s):	43.80	5,256	327.67	39,320
Imported and facility generated bedding sent to pond(s):	0.00	0	0.00	0
Total manure and bedding sent to pond(s):	241.47	28,977	1,806.35	216,762
Residual manure solids and bedding sent to pond(s) w/factor:	5.14	617	38.43	4,612
	cubic feet per year		gallons per year	
Residual manure solids and bedding sent to pond(s) w/factor:	1,875		14,028	

RAINFALL AND RUNOFF

A. RAINFALL ESTIMATES

Rainfall station nearest the facility: Tracy Carvana

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

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

Storage period rainfall (default DWR climate data): 6.82 inches/storage period

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

Flood zone: Zones A1-A3

B. IMPERVIOUS AREAS

Name	Surface Area (sq. ft.)	Quantity	25yr/24hr Storm Runoff Coefficient	Storage Period Runoff Coefficient	Runoff Destination
Commodity Area	18,198	1	1.00	1.00	Drains into pond(s).
North Cow Lane	2,705	1	1.00	1.00	Drains into pond(s).
South Cow Lane	7,029	1	1.00	1.00	Drains into pond(s).
Wash Pen	2,739	1	1.00	1.00	Drains into pond(s).

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Surface area that does not run off into pond(s): 0 sq. ft.
 Surface area that runs off into pond(s): 30,671 sq. ft.
 Total surface area: 30,671 sq. ft.
 Runoff from normal storage period rainfall: 130,396 gallons/storage period
 Runoff from normal storage period rainfall with 1.5 factor: 195,593 gallons/storage period
 25 year/24 hour storm event runoff: 47,799 gallons/storage period
 Total surface area runoff: 178,195 gallons/storage period
 Total surface area runoff with 1.5 factor: 243,392 gallons/storage period

C. ROOF AREAS

Name	Surface Area (sq. ft.)	Quantity	Runoff Destination
Center Cattle Shade	22,900	1	Wastewater pond
Commodity Barn	2,320	1	Wastewater pond
Hay Barn	7,840	1	Wastewater pond
Milking Barn	8,965	1	Wastewater pond
Mobile Home Cover	2,192	3	Wastewater pond
North Cattle Shade	79,294	1	Wastewater pond
Residence S/C	1,800	1	Wastewater pond
Residence S/N	1,889	1	Wastewater pond
Residence S/S	4,041	1	Wastewater pond
Shop	2,597	1	Wastewater pond
Shop	2,750	1	Wastewater pond
South Central Cattle Shade	10,824	1	Wastewater pond
South Mobile Home Cover	2,124	1	Wastewater pond
Southeast Cattle Shade	8,281	1	Wastewater pond
Southwest Cattle Shade	1,621	1	Wastewater pond

Surface area that does not run off into pond(s): 0 sq. ft.
 Surface area that runs off into pond(s): 163,822 sq. ft.
 Total surface area: 163,822 sq. ft.
 Runoff from normal storage period rainfall: 696,478 gallons/storage period
 Runoff from normal storage period rainfall with 1.5 factor: 1,044,716 gallons/storage period
 25 year/24 hour storm event runoff: 255,307 gallons/storage period
 Total surface area runoff: 951,785 gallons/storage period
 Total surface area runoff with 1.5 factor: 1,300,023 gallons/storage period

D. EARTHEN AREAS

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Name	Surface Area (sq. ft.)	Quantity	25yr/24 Storm Coefficient	Storage Period Coefficient	Runoff Destination
C/N Corral	65,609	1	0.85	0.15	Drains into pond(s).
C/S Corral	33,458	1	0.85	0.15	Drains into pond(s).
Dairy Area Yard	121,961	1	0.90	0.15	Drains into pond(s).
N Corral	65,912	1	0.85	0.15	Drains into pond(s).
Residential Yard North	16,878	1	0.90	0.15	Drains into pond(s).
Residential Yard South	47,237	1	0.90	0.15	Drains into pond(s).
S/C Corral	6,321	1	0.85	0.15	Drains into pond(s).
S/E Corral	40,868	1	0.85	0.15	Drains into pond(s).
S/W Corral	7,343	1	0.85	0.15	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): 405,587 sq. ft.
 Total surface area: 405,587 sq. ft.
 Runoff from normal storage period rainfall: 258,649 gallons/storage period
 Runoff from normal storage period rainfall with 1.5 factor: 387,973 gallons/storage period
 25 year/24 hour storm event runoff: 551,771 gallons/storage period
 Total surface area runoff: 810,419 gallons/storage period
 Total surface area runoff with 1.5 factor: 939,743 gallons/storage period

E. TAILWATER MANAGEMENT

Name	Volume (gallons)
Field	1

Total tailwater volume conveyed to retention pond(s): 1 gallons/storage period

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LIQUID STORAGE

A. POND OR BASIN DESCRIPTION: Lagoon 1

Pond is rectangular in shape: Yes No

Dimensions			
Earthen Length (EL):	<u>535</u> ft.	Earthen Depth (ED):	<u>12</u> ft.
Earthen Width (EW):	<u>50</u> ft.	Side Slope (S):	<u>2.0</u> ft. (h:1v)
Free Board (FB):	<u>2</u> ft.	Dead Storage Loss (DS):	<u>1.0</u> ft.
Calculations			
Liquid Length (LL):	<u>527</u> ft.	Storage Volume Adjusted for Dead Storage Loss:	<u>110,916</u> cu. ft.
Liquid Width (LW):	<u>42</u> ft.		
Pond Surface Area:	<u>26,750</u> sq. ft.	Pond Marker Elevation:	<u>9.4</u> ft.
Storage Volume:	<u>112,873</u> cu. ft.	Evaporation Volume:	<u>82,532</u> gals/period
		Adjusted Surface Area:	<u>21,475</u> sq. ft.

POND OR BASIN DESCRIPTION: Lagoon 2

Pond is rectangular in shape: Yes No

Dimensions			
Earthen Length (EL):	<u>635</u> ft.	Earthen Depth (ED):	<u>17</u> ft.
Earthen Width (EW):	<u>70</u> ft.	Side Slope (S):	<u>2.0</u> ft. (h:1v)
Free Board (FB):	<u>2</u> ft.	Dead Storage Loss (DS):	<u>1.0</u> ft.
Calculations			
Liquid Length (LL):	<u>627</u> ft.	Storage Volume Adjusted for Dead Storage Loss:	<u>288,783</u> cu. ft.
Liquid Width (LW):	<u>62</u> ft.		
Pond Surface Area:	<u>44,450</u> sq. ft.	Pond Marker Elevation:	<u>14.4</u> ft.
Storage Volume:	<u>291,060</u> cu. ft.	Evaporation Volume:	<u>146,496</u> gals/period
		Adjusted Surface Area:	<u>38,119</u> sq. ft.

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POND OR BASIN DESCRIPTION: Lagoon 3

Pond is rectangular in shape: Yes No

Dimensions			
Earthen Length (EL):	<u>561</u> ft.	Earthen Depth (ED):	<u>6</u> ft.
Earthen Width (EW):	<u>214</u> ft.	Side Slope (S):	<u>1.0</u> ft. (h:1v)
Free Board (FB):	<u>2</u> ft.	Dead Storage Loss (DS):	<u>1.0</u> ft.
Calculations			
Liquid Length (LL):	<u>557</u> ft.	Storage Volume Adjusted for Dead Storage Loss:	<u>344,043</u> cu. ft.
Liquid Width (LW):	<u>210</u> ft.		
Pond Surface Area:	<u>120,054</u> sq. ft.	Pond Marker Elevation:	<u>3.5</u> ft.
Storage Volume:	<u>455,693</u> cu. ft.	Evaporation Volume:	<u>448,079</u> gals/period
		Adjusted Surface Area:	<u>116,592</u> sq. ft.

POND OR BASIN DESCRIPTION: Lagoon 4

Pond is rectangular in shape: Yes No

Dimensions			
Earthen Length (EL):	<u>534</u> ft.	Earthen Depth (ED):	<u>6</u> ft.
Earthen Width (EW):	<u>182</u> ft.	Side Slope (S):	<u>1.0</u> ft. (h:1v)
Free Board (FB):	<u>2</u> ft.	Dead Storage Loss (DS):	<u>1.0</u> ft.
Calculations			
Liquid Length (LL):	<u>530</u> ft.	Storage Volume Adjusted for Dead Storage Loss:	<u>276,684</u> cu. ft.
Liquid Width (LW):	<u>178</u> ft.		
Pond Surface Area:	<u>97,188</u> sq. ft.	Pond Marker Elevation:	<u>3.5</u> ft.
Storage Volume:	<u>366,117</u> cu. ft.	Evaporation Volume:	<u>361,216</u> gals/period
		Adjusted Surface Area:	<u>93,990</u> sq. ft.

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POND OR BASIN DESCRIPTION: Lagoon 5

Pond is rectangular in shape: Yes No

Dimensions			
Earthen Length (EL):	<u>387</u> ft.	Earthen Depth (ED):	<u>6</u> ft.
Earthen Width (EW):	<u>137</u> ft.	Side Slope (S):	<u>1.0</u> ft. (h:1v)
Free Board (FB):	<u>2</u> ft.	Dead Storage Loss (DS):	<u>1.0</u> ft.
Calculations			
Liquid Length (LL):	<u>383</u> ft.	Storage Volume Adjusted for Dead Storage Loss:	<u>148,209</u> cu. ft.
Liquid Width (LW):	<u>133</u> ft.		
Pond Surface Area:	<u>53,019</u> sq. ft.	Pond Marker Elevation:	<u>3.5</u> ft.
Storage Volume:	<u>195,585</u> cu. ft.	Evaporation Volume:	<u>194,775</u> gals/period
		Adjusted Surface Area:	<u>50,682</u> sq. ft.

POND OR BASIN DESCRIPTION: Lagoon 6

Pond is rectangular in shape: Yes No

Dimensions			
Earthen Length (EL):	<u>273</u> ft.	Earthen Depth (ED):	<u>6</u> ft.
Earthen Width (EW):	<u>131</u> ft.	Side Slope (S):	<u>1.0</u> ft. (h:1v)
Free Board (FB):	<u>2</u> ft.	Dead Storage Loss (DS):	<u>1.0</u> ft.
Calculations			
Liquid Length (LL):	<u>269</u> ft.	Storage Volume Adjusted for Dead Storage Loss:	<u>98,961</u> cu. ft.
Liquid Width (LW):	<u>127</u> ft.		
Pond Surface Area:	<u>35,763</u> sq. ft.	Pond Marker Elevation:	<u>3.5</u> ft.
Storage Volume:	<u>130,401</u> cu. ft.	Evaporation Volume:	<u>130,529</u> gals/period
		Adjusted Surface Area:	<u>33,964</u> sq. ft.

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POND OR BASIN DESCRIPTION: Lagoon 7

Pond is rectangular in shape: Yes No

Dimensions			
Earthen Length (EL):	<u>231</u> ft.	Earthen Depth (ED):	<u>6</u> ft.
Earthen Width (EW):	<u>189</u> ft.	Side Slope (S):	<u>1.0</u> ft. (h:1v)
Free Board (FB):	<u>2</u> ft.	Dead Storage Loss (DS):	<u>1.0</u> ft.
Calculations			
Liquid Length (LL):	<u>227</u> ft.	Storage Volume Adjusted for Dead Storage Loss:	<u>122,313</u> cu. ft.
Liquid Width (LW):	<u>185</u> ft.		
Pond Surface Area:	<u>43,659</u> sq. ft.	Pond Marker Elevation:	<u>3.5</u> ft.
Storage Volume:	<u>161,473</u> cu. ft.	Evaporation Volume:	<u>160,603</u> gals/period
		Adjusted Surface Area:	<u>41,790</u> sq. ft.

Potential storage losses (due to dead storage): 323,293.0 cubic feet - or - 2,418,399.6 gallons

Liquid storage surface area: 399,415 sq. ft.

Rainfall onto retention pond(s): 1,789,354 gallons/storage period

Rainfall runoff into retention pond(s): 1,085,522 gallons/storage period

Normal rainfall onto retention pond(s) with 1.5 factor: 2,684,031 gallons/storage period

Normal rainfall runoff into retention pond(s) with 1.5 factor: 1,628,283 gallons/storage period

Storage period evaporation (default): 8.22 inches/storage period

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

Storage period evaporation volume: 1,524,230 gallons/storage period

Manure and bedding sent to pond(s): 216,762 gallons/storage period

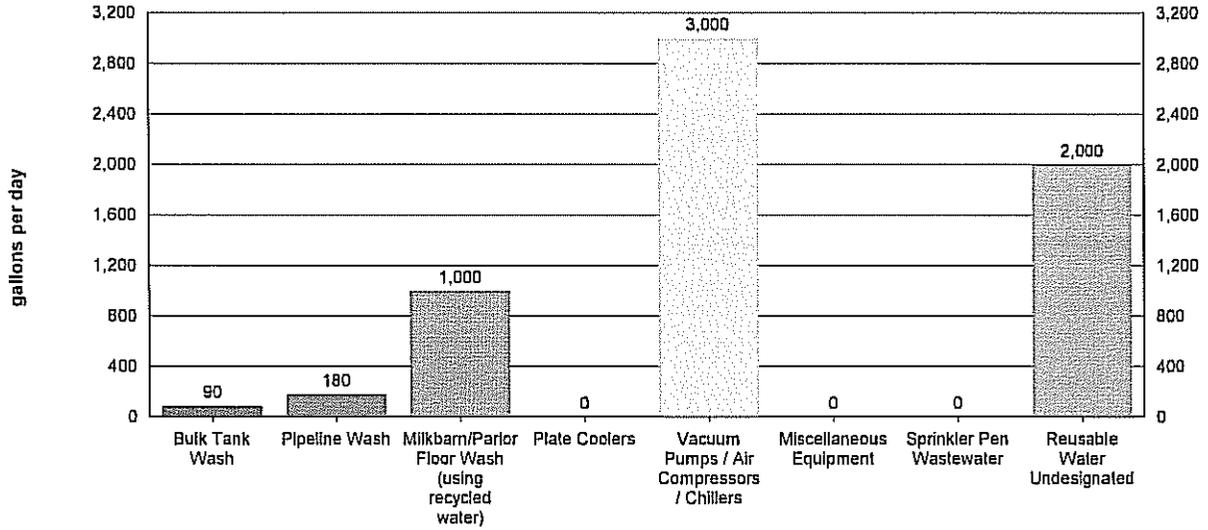
Milkbarn water sent to pond(s): 392,400 gallons/storage period

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

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CHARTS

A. MILKBARN WASTEWATER SENT TO POND(S)

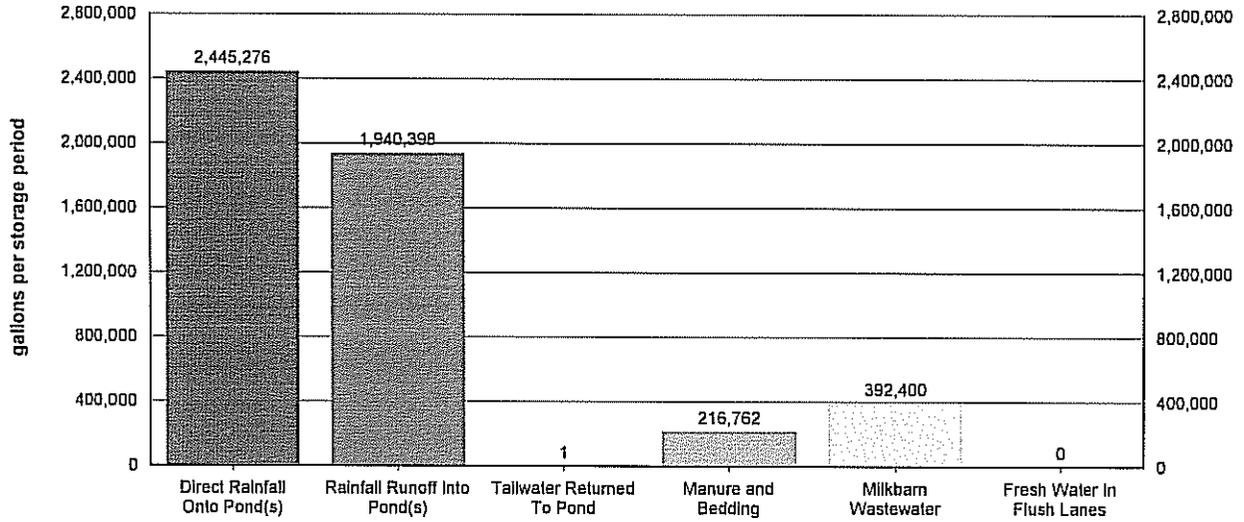


Values shown in chart are approximate values per day.

Total milkbarn wastewater generated daily: 3,270 gallons/day
 Total milkbarn wastewater generated per period: 392,400 gallons/storage period

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B. PROCESS WASTEWATER (NORMAL PRECIPITATION)



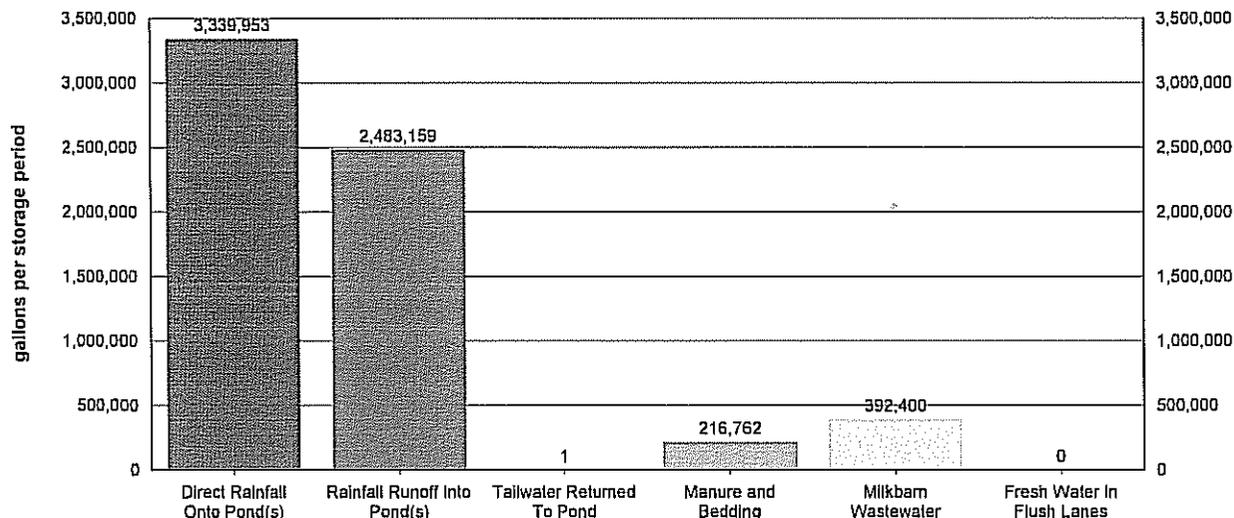
Values shown in chart are approximate values for storage period.

Storage period:	<u>120</u> days
Total process wastewater generated daily:	<u>41,624</u> gallons/day
Total process wastewater generated per period:	<u>4,994,837</u> gallons/storage period
Total process wastewater removed due to evaporation:	<u>1,524,230</u> gallons/storage period
Total storage capacity required:	<u>3,470,607</u> gallons
	<u>463,953</u> cu. ft.
Existing storage capacity (adjusted for dead storage loss):	<u>10,397,241</u> gallons
	<u>1,389,909</u> cu. ft.

Considering normal precipitation, existing capacity meets estimated storage needs: Yes No

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C. PROCESS WASTEWATER (NORMAL PRECIPITATION WITH 1.5 FACTOR)



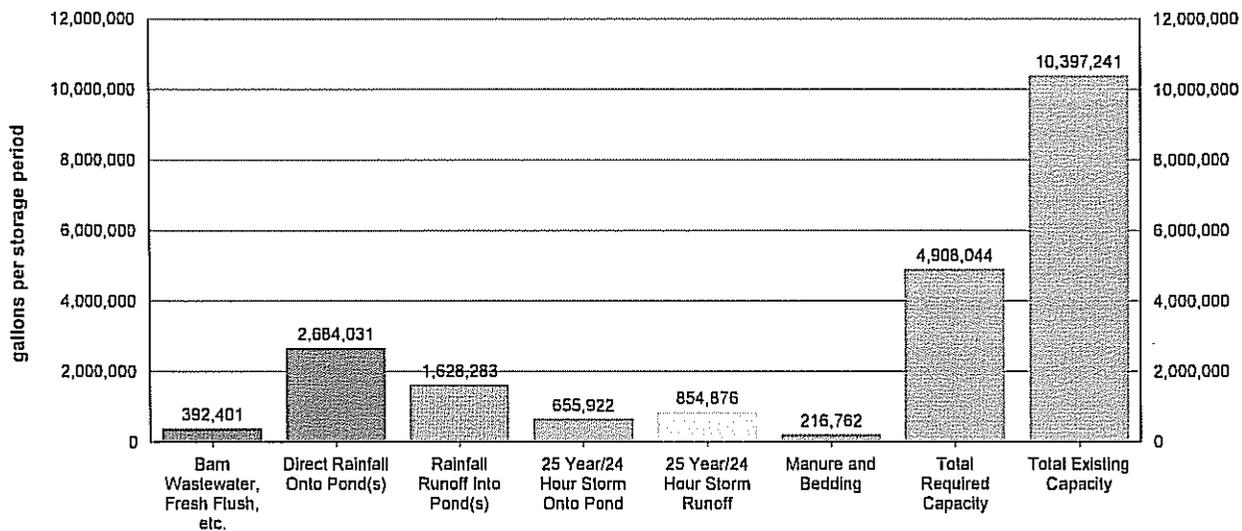
Values shown in chart are approximate values for storage period.

Storage period:	<u>120 days</u>
Total process wastewater generated daily:	<u>53,602 gallons/day</u>
Total process wastewater generated per period:	<u>6,432,274 gallons/storage period</u>
Total process wastewater removed due to evaporation:	<u>1,524,230 gallons/storage period</u>
Total storage capacity required:	<u>4,908,044 gallons</u>
	<u>656,110 cu. ft.</u>
Existing storage capacity (adjusted for dead storage loss):	<u>10,397,241 gallons</u>
	<u>1,389,909 cu. ft.</u>

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

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



Values shown in chart are approximate values for storage period.

Storage period:	<u>120 days</u>
Barn wastewater, fresh flush water, and tailwater:	<u>392,401</u> gallons/storage period
Manure and bedding sent to pond:	<u>216,762</u> gallons/storage period
Precipitation onto pond:	<u>2,684,031</u> gallons/storage period
Precipitation runoff:	<u>1,628,283</u> gallons/storage period
25 year/24 hour storm onto pond:	<u>655,922</u> gallons/storage period
25 year/24 hour storm runoff:	<u>854,876</u> gallons/storage period
Residual solids after liquids have been removed (liquid equivalent):	<u>4,612</u> gallons/storage period
Total process wastewater removed due to evaporation:	<u>1,524,230</u> gallons/storage period
Total required capacity:	<u>4,908,044</u> gallons/storage period
Total existing capacity:	<u>10,397,241</u> gallons/storage period
Existing capacity meets estimated storage needs:	[X] Yes [] No

2. OPERATION & MAINTENANCE PLAN (OMP)

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OPERATION AND MAINTENANCE PLAN

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

A. POND MAINTENANCE

i. FREEBOARD MONITORING

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

ii. PREPARATION FOR MAINTAINING WINTER STORAGE CAPACITY

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

iii. OTHER POND MONITORING

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

iv. SOLIDS REMOVAL PROCEDURES

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

OPERATIONS AND MAINTENANCE PLAN FOR POND: Lagoon 1

Dry season freeboard monitoring will occur on the 1st 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 11 feet above the pond invert beginning in May of each year.

Sludge accumulation will be measured semiannually.

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

Measure distance top of floating solids to settling pond outlet pipe.

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July 1, 2010 deadline

When solids/sludge accumulate to a thickness of 2.5 feet, the following method will be used to maintain adequate storage capacity while protecting any pond liner:

Floating solids will be removed from settling basin with a back hoe. Operator will be instructed to keep bucket away from sides and bottom of settling basin.

OPERATIONS AND MAINTENANCE PLAN FOR POND: Lagoon 2

Dry season freeboard monitoring will occur on the 1st 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 16 feet above the pond invert beginning in May of each year.

Sludge accumulation will be measured semiannually.

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

Measure distance top of floating solids to settling pond outlet pipe.

When solids/sludge accumulate to a thickness of 2.5 feet, the following method will be used to maintain adequate storage capacity while protecting any pond liner:

Floating solids will be removed from settling basin with a back hoe. Operator will be instructed to keep bucket away from sides and bottom of settling basin.

OPERATIONS AND MAINTENANCE PLAN FOR POND: Lagoon 3

Dry season freeboard monitoring will occur on the 1st 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 6 feet above the pond invert beginning in May of each year.

Sludge accumulation will be measured annually.

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

Sludge Judge

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:

Sludge will be removed from settling basin with an excavator or back hoe. Operator will be instructed to keep bucket away from sides and bottom of lagoon.

OPERATIONS AND MAINTENANCE PLAN FOR POND: Lagoon 4

Dry season freeboard monitoring will occur on the 1st 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 6 feet above the pond invert beginning in May of each year.

Sludge accumulation will be measured annually.

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

Sludge Judge

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:

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July 1, 2010 deadline

Sludge will be removed from settling basin with an excavator or back hoe. Operator will be instructed to keep bucket away from sides and bottom of lagoon.

OPERATIONS AND MAINTENANCE PLAN FOR POND: Lagoon 5

Dry season freeboard monitoring will occur on the 1st 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 6 feet above the pond invert beginning in May of each year.

Sludge accumulation will be measured annually.

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

Sludge Judge

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:

Sludge will be removed from settling basin with an excavator or back hoe. Operator will be instructed to keep bucket away from sides and bottom of lagoon.

OPERATIONS AND MAINTENANCE PLAN FOR POND: Lagoon 6

Dry season freeboard monitoring will occur on the 1st 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 6 feet above the pond invert beginning in May of each year.

Sludge accumulation will be measured annually.

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

Sludge Judge

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:

Sludge will be removed from settling basin with an excavator or back hoe. Operator will be instructed to keep bucket away from sides and bottom of lagoon.

OPERATIONS AND MAINTENANCE PLAN FOR POND: Lagoon 7

Dry season freeboard monitoring will occur on the 1st 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 6 feet above the pond invert beginning in May of each year.

Sludge accumulation will be measured annually.

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

Sludge Judge

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:

Sludge will be removed from settling basin with an excavator or back hoe. Operator will be instructed to keep bucket away from sides and bottom of lagoon.

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 July 1, 2010 deadline

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.

<i>Buildings with rooftop rainfall collection systems</i>	Quantity	Surface Area (sq. ft.)
Center Cattle Shade	1	22,900
North Cattle Shade	1	79,294
Residence S/C	1	1,800
Residence S/N	1	1,889
Residence S/S	1	4,041
South Central Cattle Shade	1	10,824
Southeast Cattle Shade	1	8,281
Southwest Cattle Shade	1	1,621
<i>Buildings without rooftop rainfall collection systems</i>	Quantity	Surface Area (sq. ft.)
Commodity Barn	1	2,320
Hay Barn	1	7,840
Milking Barn	1	8,965
Mobile Home Cover	3	6,576
Shop	1	2,597
Shop	1	2,750
South Mobile Home Cover	1	2,124

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

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

Description of how rainfall collection systems will be assessed:

Visual inspection of rooftop gutters and yard and corral drains. Test for leaks or plugging by applying water.

C. CORRAL MAINTENANCE

Waste Management Plan Report
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July 1, 2010 deadline

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

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

Day of the week wet season assessment will occur: Monday

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

Conditions requiring manure removal and/or regrading:

Manage pens such that the manure depth in the corral does not exceed 18 inches at any point, except for in-coral mounds. Knock down fence line build-up prior to it exceeding a height of 12 inches.
Maintain slope of at least 3%. Fill all depressions where ponding/puddling may occur.

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

D. FEED STORAGE AREA MAINTENANCE

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

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

Day of the week wet season assessment will occur: Monday

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

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

E. SOLID MANURE STORAGE AREA MAINTENANCE

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

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

Day of the month dry season assessment will occur: 1st of each month
Day of the month wet season assessment will occur: Monday
Regrading/resurfacing and berm maintenance assessment will occur on or before: 1st of October
Regrading/resurfacing and berm maintenance completion will occur on or before: 1st of November

F. ANIMAL HOUSING AND FLUSH WATER CONVEYANCE SYSTEM MAINTENANCE

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

Animal housing area assessment will occur on or before: 1st of October
Animal housing drainage system maintenance will occur on or before: 1st of October
Animal housing area drainage system assessment and maintenance methods:

If system(s) are plugged, clean by high volume flush, roto-rooting, or pipeline pigs. Repair pumps and underground plastic piping as needed.

G. MORTALITY MANAGEMENT

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

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

H. ANIMALS AND SURFACE WATER MANAGEMENT

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

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

I. MONITORING SALT IN ANIMAL RATIONS

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

Assessment interval: Annually

J. CHEMICAL MANAGEMENT

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

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

Chemical Name	Quantity	Units	Frequency	Usage Area	Destination (Used Chemical / Container)	Disposal Company		Collection Frequency
						Name	Phone	
Chlorinated Sanitizer "Zinicon" by GEA	28	gallons	month	Milk Barn	Chemical: Retention Pond. Empty Container: taken back by chemical supplier.	W. S. West	(209) 564-1768	routine
Acid Cleaner "Effect" by Westfalla-Surge	28	gallons	month	Milk Barn	Chemical: Retention Pond. Empty Container: taken back by chemical supplier.	W. S. West	(209) 564-1768	routine
Detergent - "Solution" by GEA	10	gallons	week	Milk Barn	Chemical: Retention Pond. Empty Container: taken back by chemical supplier.	W. S. West	(209) 564-1768	routine
Iodine	250	gallons	month	Milk Barn	Chemical: Retention Pond. Empty Container: taken back by chemical supplier.	W. S. West	(209) 564-1768	routine

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

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: IF1a Production Area

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: IF2a Applicatio Area

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: IF2a Non Application

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: IF4 Wells Area

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: IF5 Vicinity Map

B. PROCESS WASTEWATER MAP(S)

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

Production infrastructure system area map reference number: IF1b Production WW

Waste Management Plan Report
General Order No. R5-2007-0035, Attachment B
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Provide a site map (or maps) of appropriate scale to show property boundaries and the location of the features of all land application areas (land under the Discharger's control, whether it is owned, rented, or leased, to which manure or process wastewater from the production area is or may be applied for nutrient recycling) including the following in sufficient detail: process wastewater conveyance structures, discharge points and discharge mixing points with irrigation water supplies; pumping facilities; flow meter locations; drainage ditches and canals, culverts, drainage controls (berms, levees, etc.), and drainage easements.

Land application infrastructure system area map reference number: IF2b Land Applic WW

C. EXCESS PRECIPITATION CONTINGENCY REPORT

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

D. OPERATION AND MAINTENANCE PLAN

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

Animal housing assessment map reference number: IF1b Prod Area WW

E. FLOOD PROTECTION / INUNDATION REPORT

Provide an engineering report showing that the facility has adequate flood protection.

Flood zone map and/or document reference number: TostaDairyFlood Cert

F. BACKFLOW PROTECTION

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

Backflow documentation reference number: B/F Form Tosta Dairy

3. ENGINEER'S CERTIFICATION

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

CERTIFICATION

A. DAIRY FACILITY INFORMATION

Name of dairy or business operating the dairy: Henry Tosta Dairy

Physical address of dairy:

<u>20662 San Jose Road</u>	<u>Tracy</u>	<u>San Joaquin</u>	<u>95304</u>
Number and Street	City	County	Zip Code

Street and nearest cross street (if no address): _____

B. DOCUMENTATION OF QUALIFICATIONS AND PLAN DEVELOPMENT

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

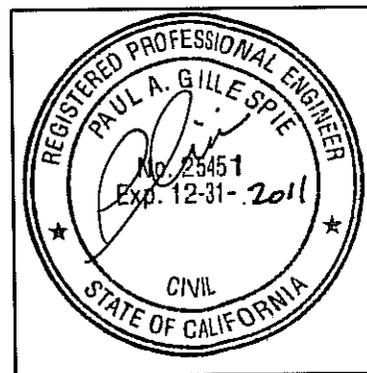
Storage capacity is:

Insufficient

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

Sufficient

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



CIVIL ENGINEER'S WET STAMP

Paul Gillespie
SIGNATURE OF CIVIL ENGINEER

7/12/2010
DATE

Paul Gillespie
PRINT OR TYPE NAME

4339 Buckeye Creek RD; Mariposa, CA 95338
MAILING ADDRESS

(209) 742-5903
PHONE NUMBER

4. OWNER / OPERATOR CERTIFICATION

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

Henry Tosta

SIGNATURE OF OWNER

Henry Tosta

PRINT OR TYPE NAME

9-17-2010

DATE

Henry Tosta

SIGNATURE OF OPERATOR

HENRY TOSTA

PRINT OR TYPE NAME

9-17-2010

DATE

5. FACILITY DESCRIPTION

IF1a PRODUCTION AREA MAP

IF1b PRODUCTION WASTE WATER MAP

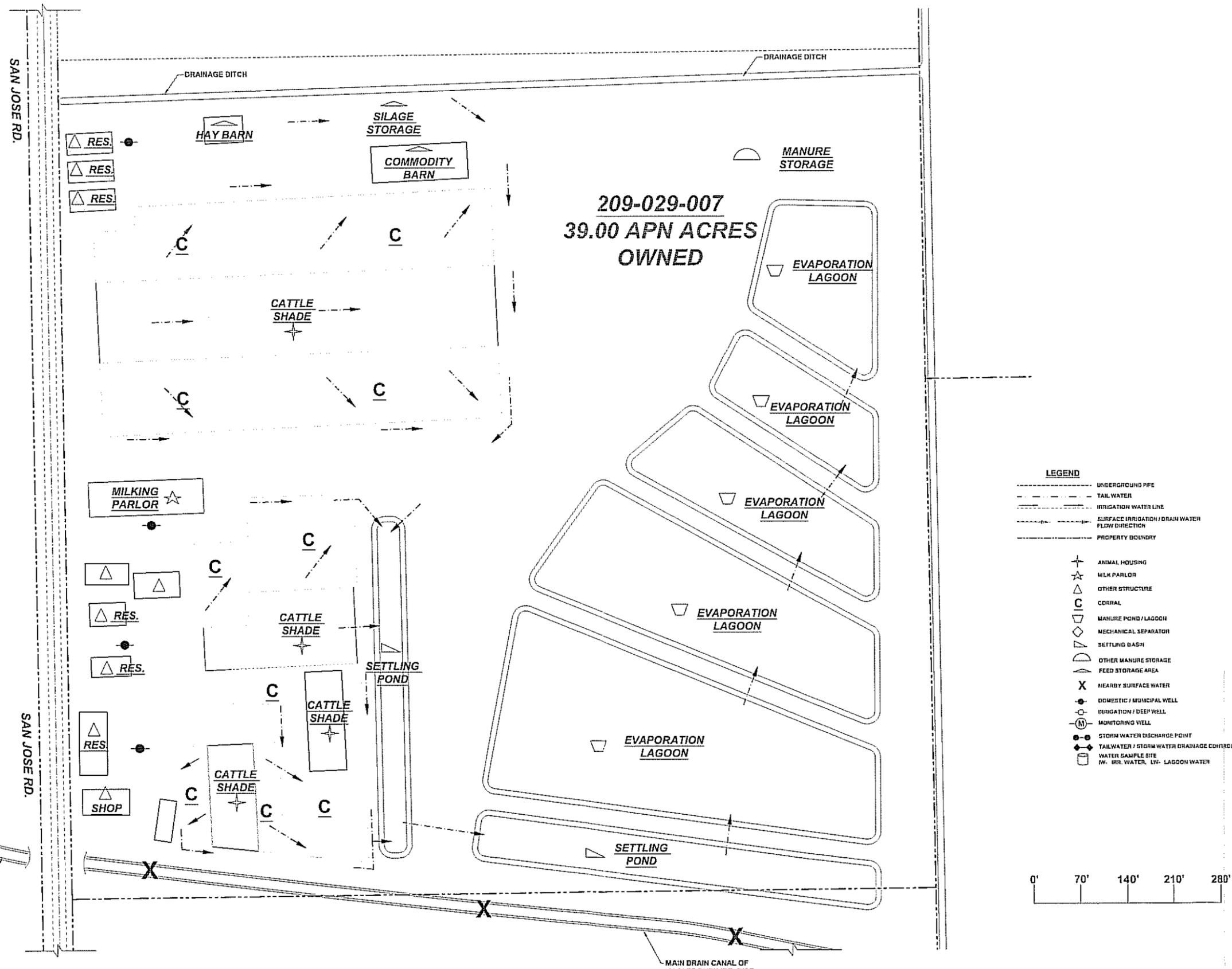
IF2a APPLICATION AREA MAP

IF2b LAND APPLICATION WASTE WATER MAP
(NOT APPLICABLE TO THIS DAIRY)

IF3 NON-APPLICATION AREA MAP

IF4 WELLS AREA MAP

IF3 VICINITY MAP



PRINT DATE	BY

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TOSTA DAIRY
IF1a - PRODUCTION AREA

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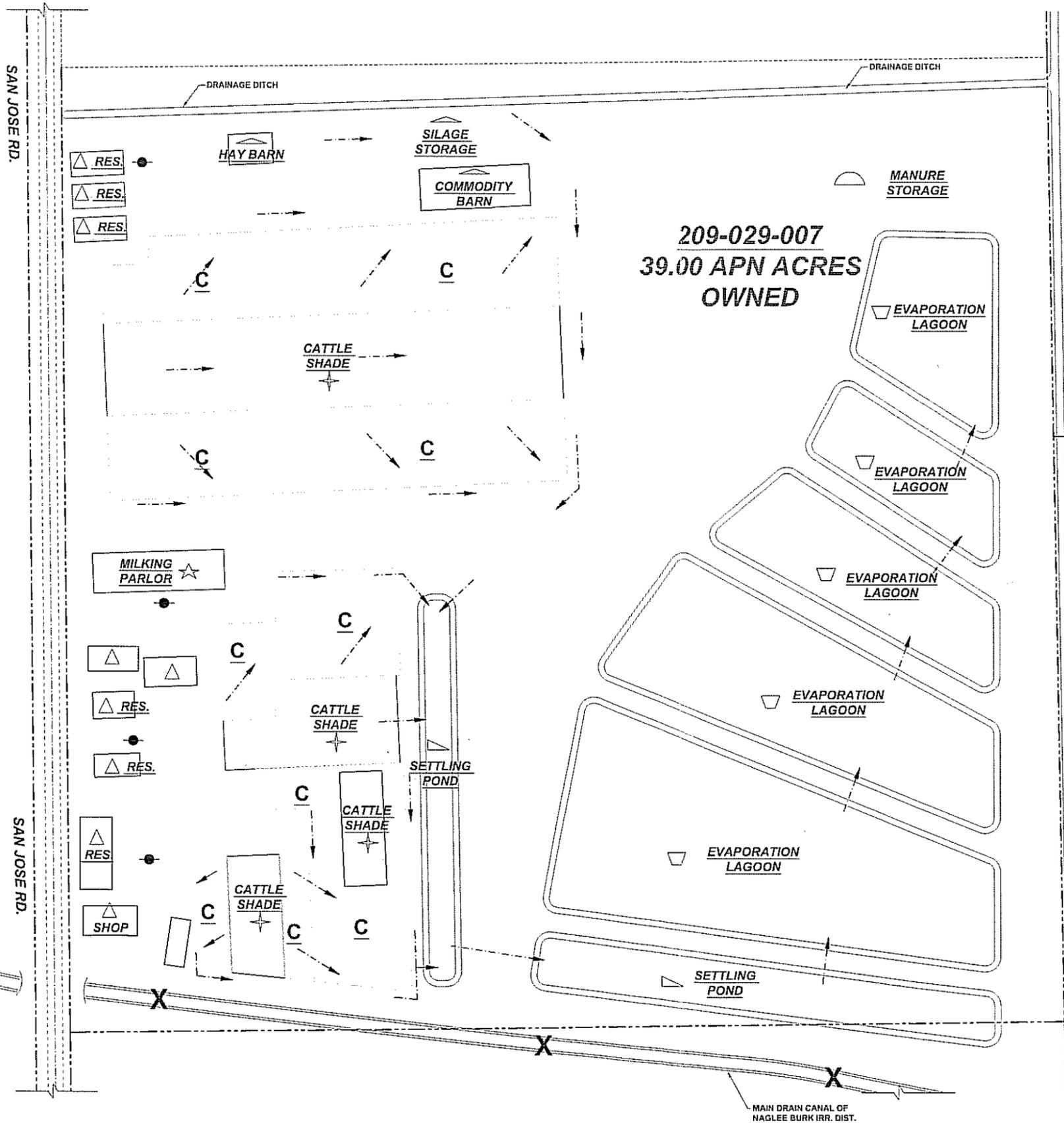
OWNER:
HENRY TOSTA
20662 SAN JOSE RD.
TRACY, CA 95304
(209) 814-0139

Western Dairy Design
Associates, Inc.
316 West F Street, Ste 100
Oakdale, CA 95361
(209) 848-2874
www.wddnet.com

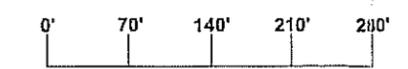
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PRODUCTION AREA



- LEGEND**
- UNDERGROUND PIPE
 - - - TAIL WATER
 - · - · - IRRIGATION WATER LINE
 - SURFACE IRRIGATION / DRAIN WATER FLOW DIRECTION
 - - - - - PROPERTY BOUNDARY
 - + ANIMAL HOUSING
 - ☆ MILK PARLOR
 - △ OTHER STRUCTURE
 - C CORRAL
 - ▽ MANURE POND / LAGOON
 - ◇ MECHANICAL SEPARATOR
 - ▽ SETTLING BASH
 - ▽ OTHER MANURE STORAGE
 - ▽ FEED STORAGE AREA
 - X HEAVY SURFACE WATER
 - DOMESTIC / MUNICIPAL WELL
 - ⊙ IRRIGATION / DEEP WELL
 - ⊙ MONITORING WELL
 - ⊙ STORM WATER DISCHARGE POINT
 - ⊙ TAILWATER / STORM WATER DRAINAGE CONTROL
 - ⊙ WATER SAMPLE SITE
 - W- IRR. WATER, LW- LAGOON WATER



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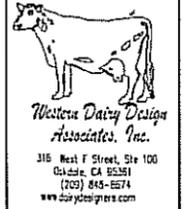
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 IF1b - PRODUCTION AREA
 WASTEWATER

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 20662 SAN JOSE RD.
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PRODUCTION AREA

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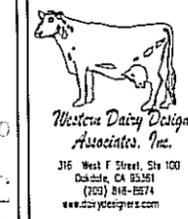
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TOSTA DAIRY
IF2a -APPLICATION AREA

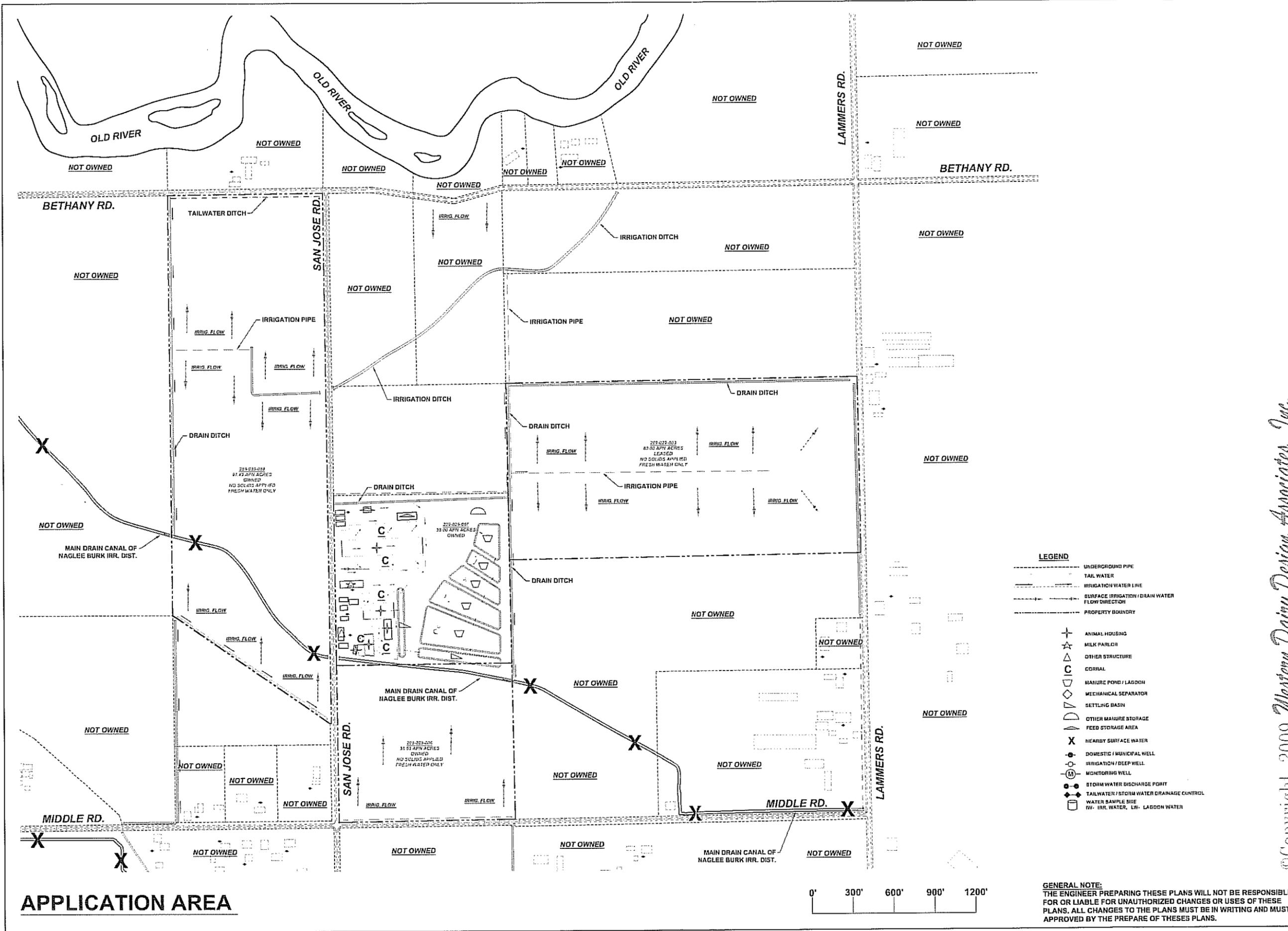
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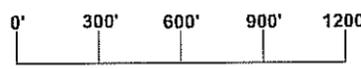
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APPLICATION AREA



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IF4 - WELL AREA

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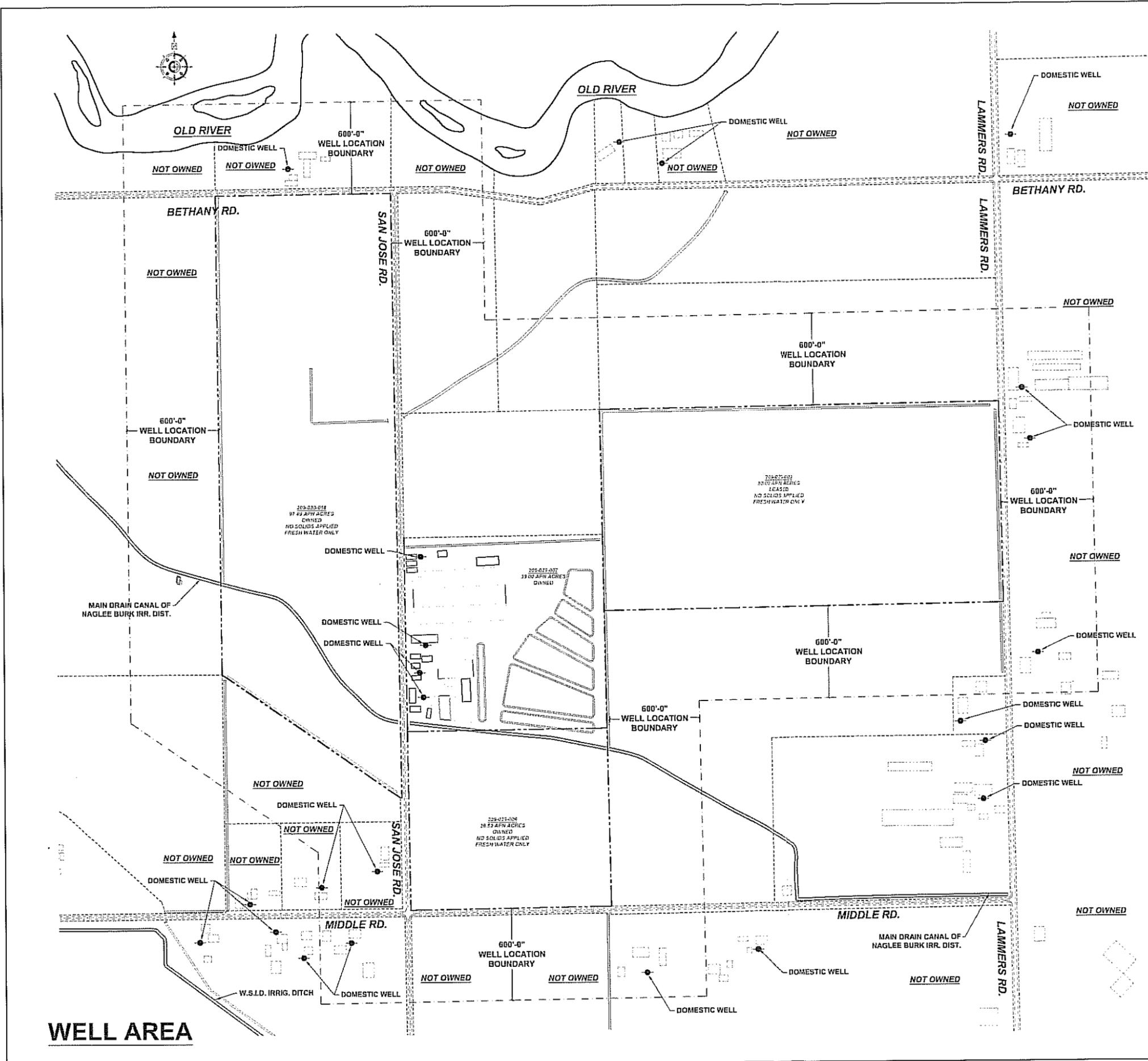
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LEGEND

- UNDERGROUND PIPE
- - - TAIL WATER
- - - IRRIGATION WATER LINE
- - - SURFACE IRRIGATION / DRAIN WATER FLOW DIRECTION
- - - PROPERTY BOUNDARY
- + ANIMAL HOUSING
- ☆ MILK PARLOR
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- ◇ MECHANICAL SEPARATOR
- ▽ SETTLING BASIN
- ▽ OTHER MANURE STORAGE
- ▽ FEED STORAGE AREA
- ▽ DRAINAGE FLOW
- X NEARBY SURFACE WATER
- DOMESTIC / MUNICIPAL WELL
- ⊙ IRRIGATION / DEEP WELL
- ⊙ MONITORING WELL
- ⊙ STORM WATER DISCHARGE POINT
- ⊙ TAILWATER / STORM WATER DRAINAGE CONTROL
- ⊙ WATER SAMPLE SITE
- ⊙ IRR. WATER, LW- LAGOON WATER
- ⊙ PUMP

0' 300' 600' 900' 1200' 1500'

GENERAL NOTE:
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WELL AREA

PRINT DATE	BY

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**TOSTA DAIRY
IF5 - VICINITY MAP**

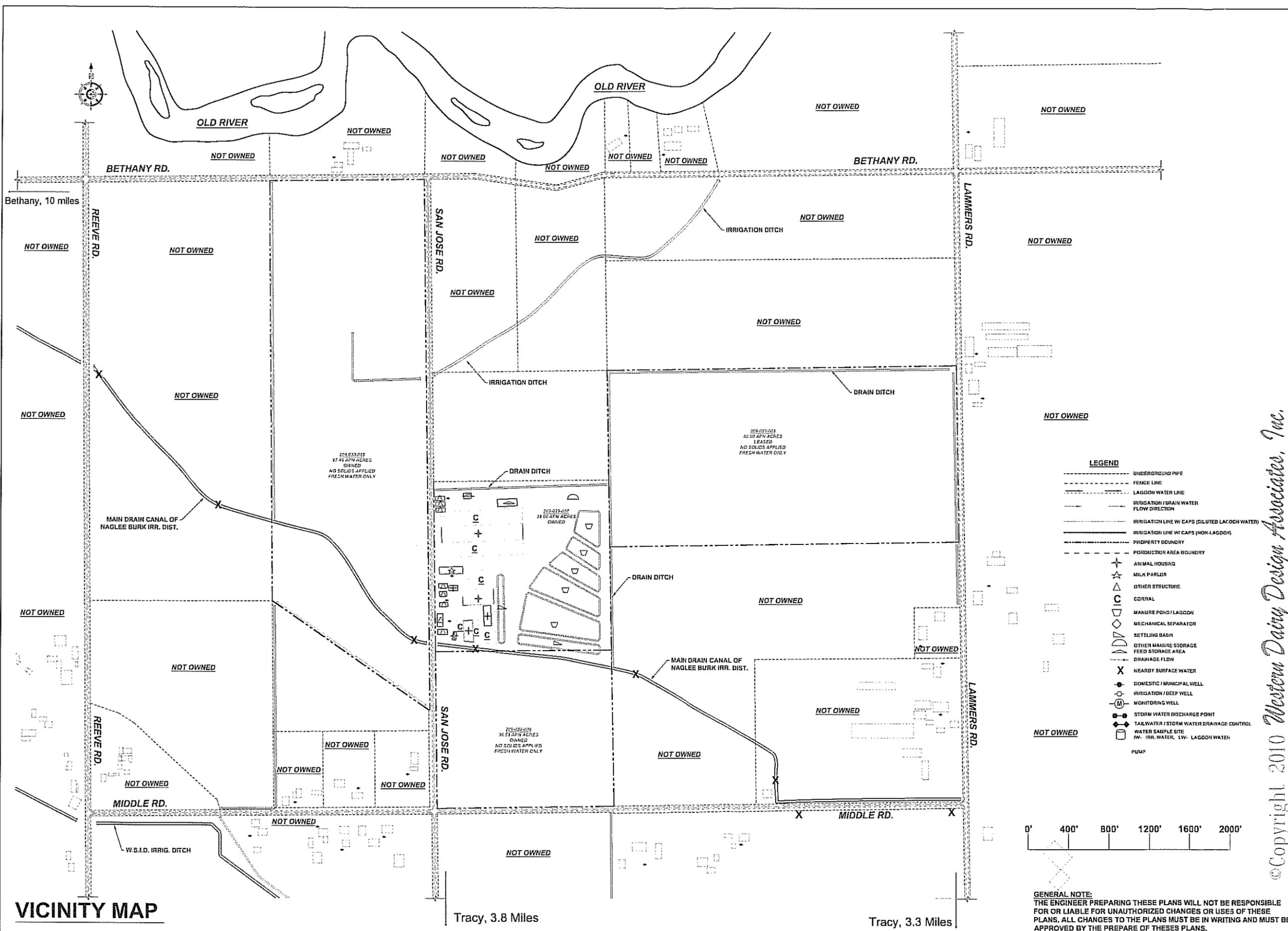
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JOB SITE:
TOSTA DAIRY
20662 SAN JOSE RD.
TRACY, CA 95304

OWNER:
HENRY TOSTA
20662 SAN JOSE RD.
TRACY, CA 95304
(209) 814-0130



Dwg. Date:	09/12/2010
Scale:	As Shown
Drawn:	DA
Job:	053-10-00
Sheet #	IF5
of # Sheets	1
Rev Level	A



VICINITY MAP

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Bethany, 10 miles

Tracy, 3.8 Miles

Tracy, 3.3 Miles

6. PRECIPITATION INFORMATION

ANNUAL RAINFALL MAP

25 YEAR, 24 HOUR STORM MAP

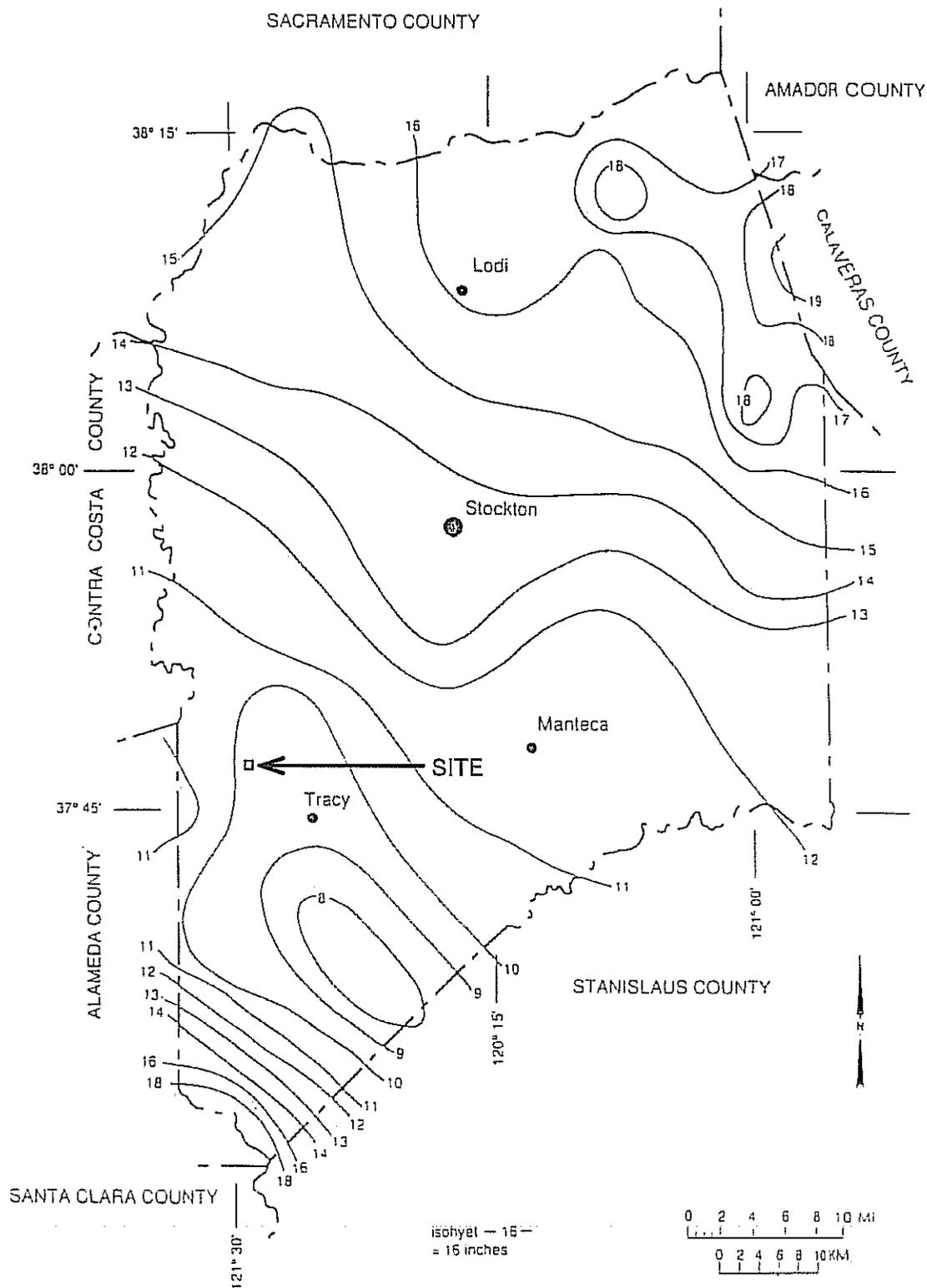
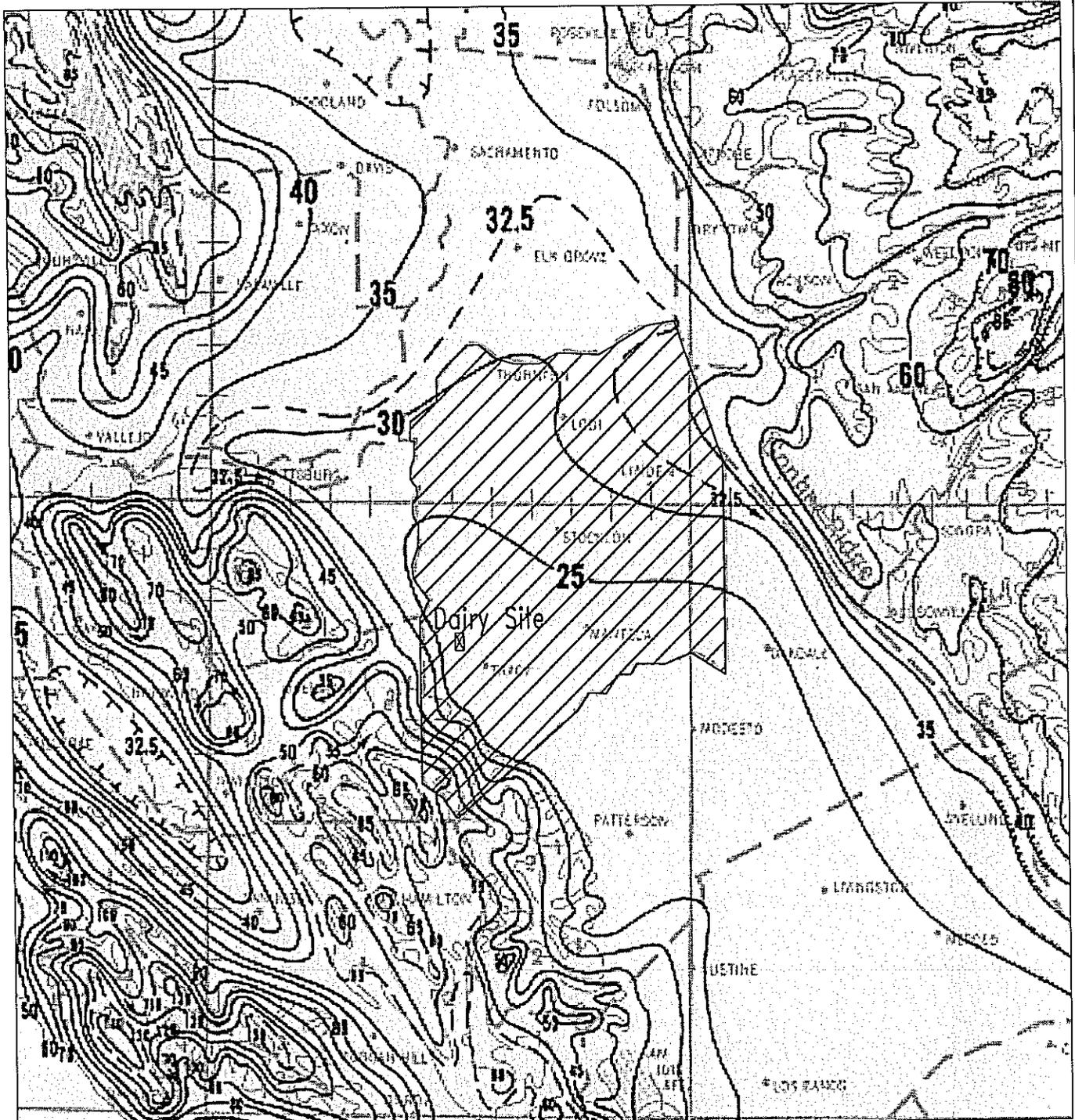


Figure 3.—The average annual precipitation, in inches, in San Joaquin County.

Figure 3, Average Annual Precipitation, San Joaquin

From: *Soil Survey of San Joaquin County, California (USDA)*



This is a 25-year, 24-hour storm map for San Joaquin County, taken from NOAA Atlas 2, volume XI. Isopleths are in tenths of an inch.



Western Dairy Design
 David Avila
 316 West F Street, Suite #100
 Oakdale, California 95361
 209-848-8674

Waste Management Plan
 RWQCB
 Date: 07-01-2010

Owner:
 Henry Tosta Dairy
 20662 South San Jose Road
 Tracy, Ca. 95304

Site:
 Henry Tosta Dairy
 20662 South San Jose Road
 Tracy, Ca. 95304

25 year 24 Hour Storm Rainfall at dairy site: 2.5 inch

25 year 24 Hour Rainfall (Tenths of Inch)

7. FLOOD ZONE INFORMATION

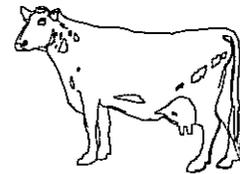
FLOOD PROTECTION / INUNDATION REPORT

(An engineering report showing that the facility has adequate flood protection.)

FEMA FIRMETTE MAP

FEMA FIRMETTE MAP LEGEND

Western Dairy Design
Associates, Inc.
316 West F Street, Ste 100
Oakdale, CA 95361
(209) 848-8674
www.dairydesigners.com



August 12, 2010

California Regional Water Quality Control Board
Attn: Charlene Herbst
Region 5
11020 Sun Center, #200
Rancho Cordova, California 95670

Henry Tosta Dairy
20622 San Jose Road
Tracy, California 95304

Reference:

1 July information regarding flood protection to dairy site from 100 year flood event.

This dairy site is located at the FIRM map San Joaquin County; Panel 590 of 950; Community Panel Number; San Joaquin County; 060299 0590 F. Effective Date on panel is: October 16, 2009.

The dairy production area is approximately 1,265 feet North of West Middle Road and 2,347' South of Bethany Road on San Jose Road, at approximately 37°46'20.76"N and 121°29'23.06"W.

The flood zone designations for the dairy are all in Zone AE. Zone AE areas are that base flood elevations have been determined, and the Tosta dairy is within a 13 foot flood elevation.

This dairy has been in production since the mid 1950's, and has gone through some construction phases including a Milk parlor, freestall barn, a shop and two hay barns The new construction constitutes that the site falls under the Water Quality Control Board, R5-2007-0035, B General Specifications, Item III, section A3 which states:

"Facilities, or portions thereof, which began operation after November 27, 1984, are protected by a 100 year peak storm flow."

We have determined by a site survey, in the event of a 100 year storm that the Tosta dairy production site and manure ponds are protected in this AE flood zone by the levee system on the Old River and therefore do not pose a threat.

We performed a survey at the site in 2006 which was done so that we could determine elevations for a new shop. At that time, we determined the elevation at the site from an existing Survey monument stamped, Z 933 1958 40 D at approximately 37°45'01.71"N and 121°28'47.80"W. The elevations of the Tosta Dairy site was determined to be 5.39 feet NGVD, relative to the 1988 NAVD elevations established from the Survey monument.

The dairy facility and the surrounding areas are protected by a raised levee which runs along the entire length of the Old River, north of the dairy site. Data on the levee's were collected from the Reclamation District 1007 Engineer, Thomas Rosten, and based on the information we have, determined that the levee system is sufficient in the holding back the events of a 100 yr peak flow storm. The levee's were designed with a 3 foot freeboard above the 100 yr event thus are completely adequate to hold back the event of a 100 yr peak flow storm.

Although, after compiling information on the levee to the north of the dairy site, we have determined and detailed on the following drawings, areas of interest that may continue to be observed as the weather and conditions require.

We are unsure if the levee is in compliance with the criteria in Title 44 of the Code of Federal Regulations Section 65.10, which includes criteria for levee design, operations plans, maintenance plans, and certification by a registered civil engineer.

In conclusion, I recommend the levee along Old River be monitored and observed as the time, weather and conditions require. In the event of a 100 year storm, we feel that the Tosta dairy production site and manure ponds do not pose as a source of organic materials to offsite water flows.

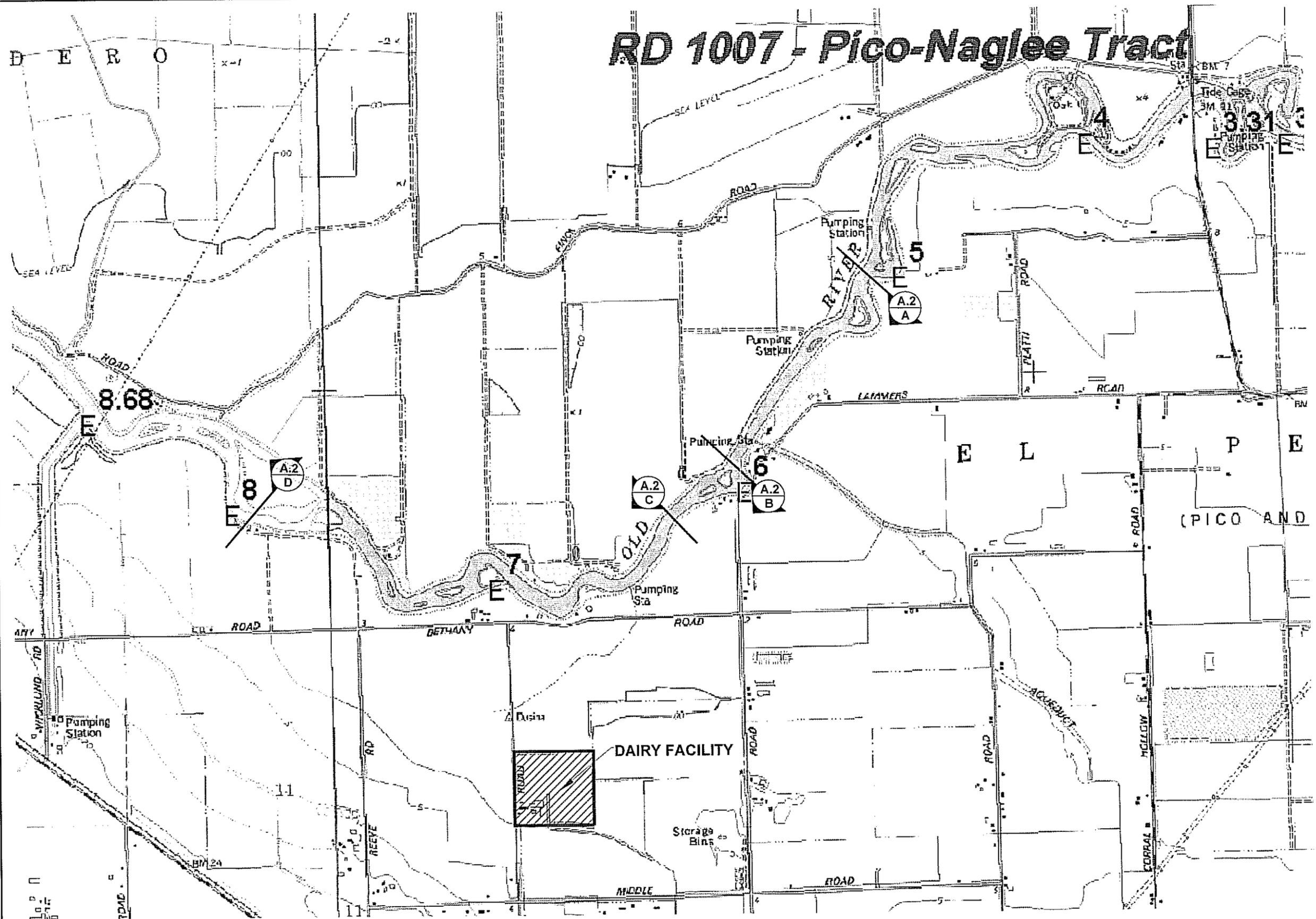
Western Dairy Design Associates, Inc.



David Avila, President



RD 1007 - Pico-Naglee Tract



"OLD RIVER" MAP

NOTES:
 CROSS SECTIONS OF THE "OLD RIVER" : AREAS OF INTEREST THAT PERTAIN TO THE DAIRY SITE,
 THAT MIGHT BE MONITORED AND OBSERVED AS THE WEATHER AND CONDITIONS REQUIRE.

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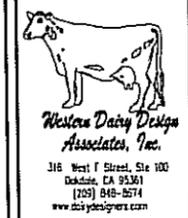
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TOSTA DAIRY
 "OLD RIVER" MAP

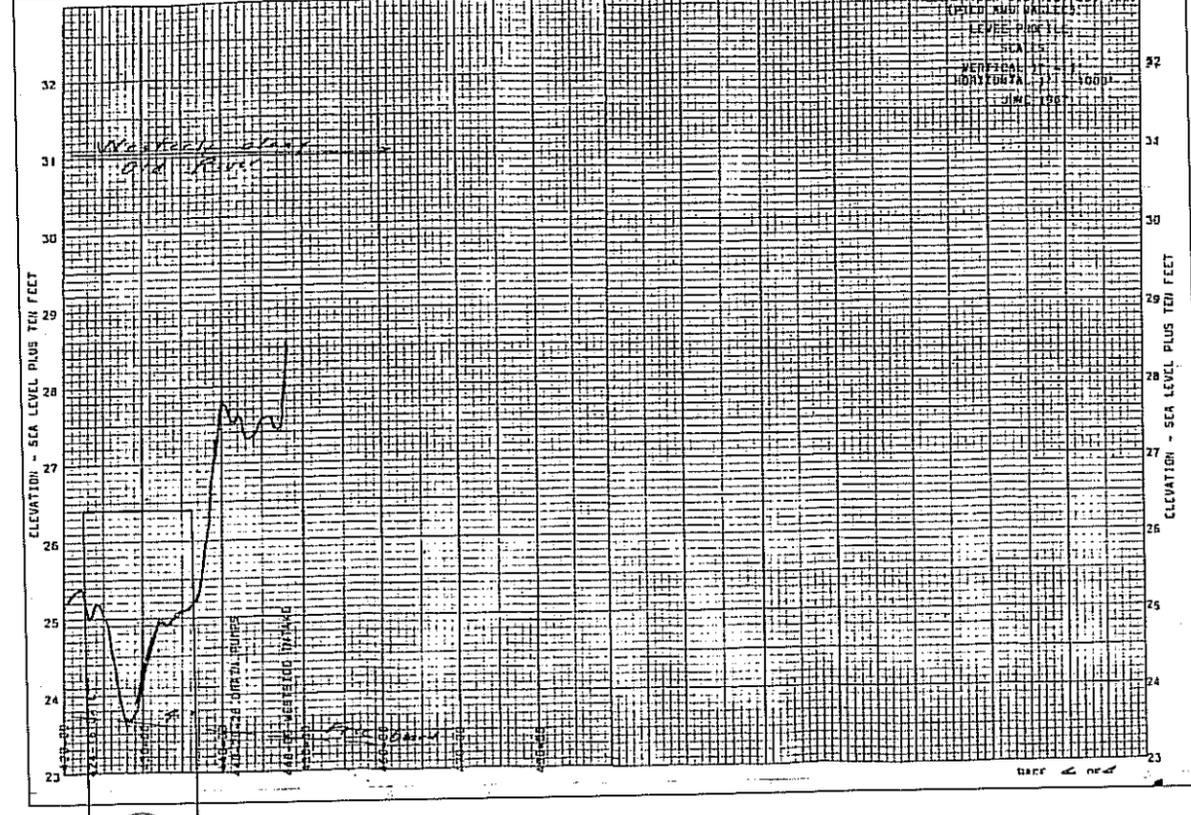
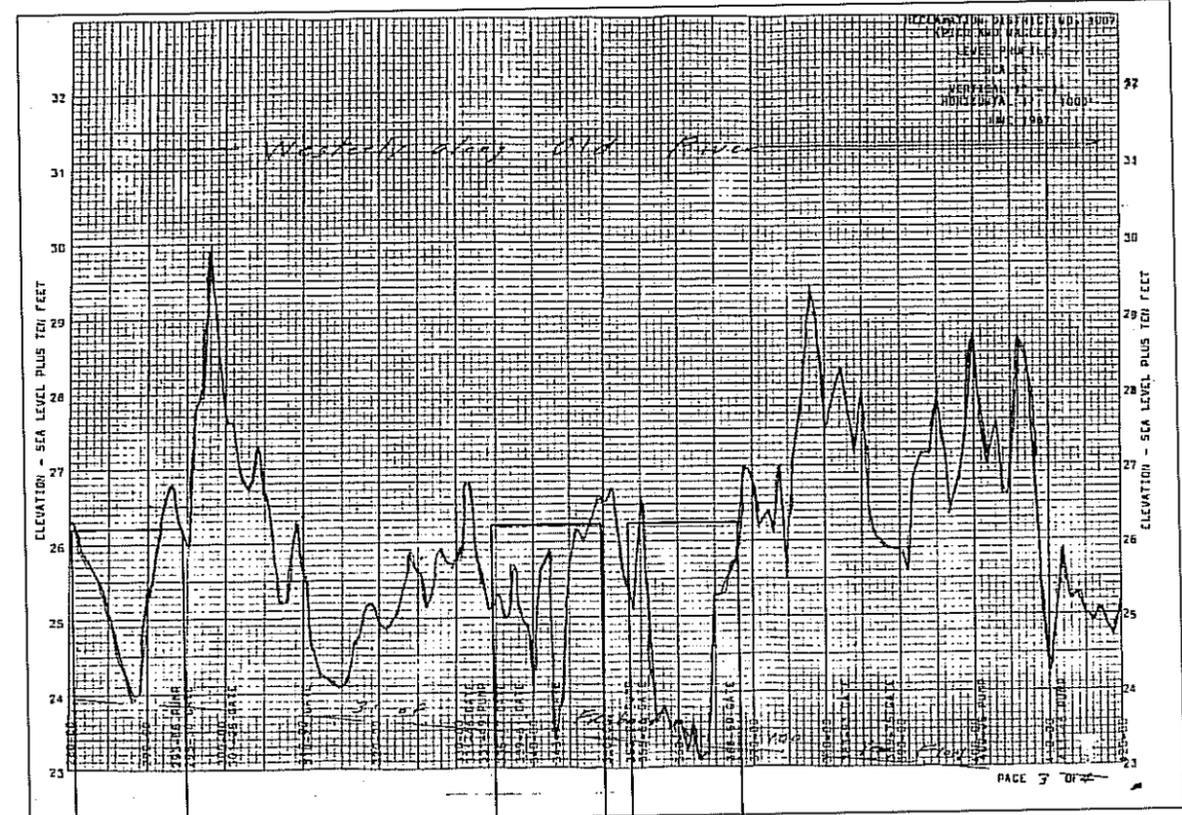
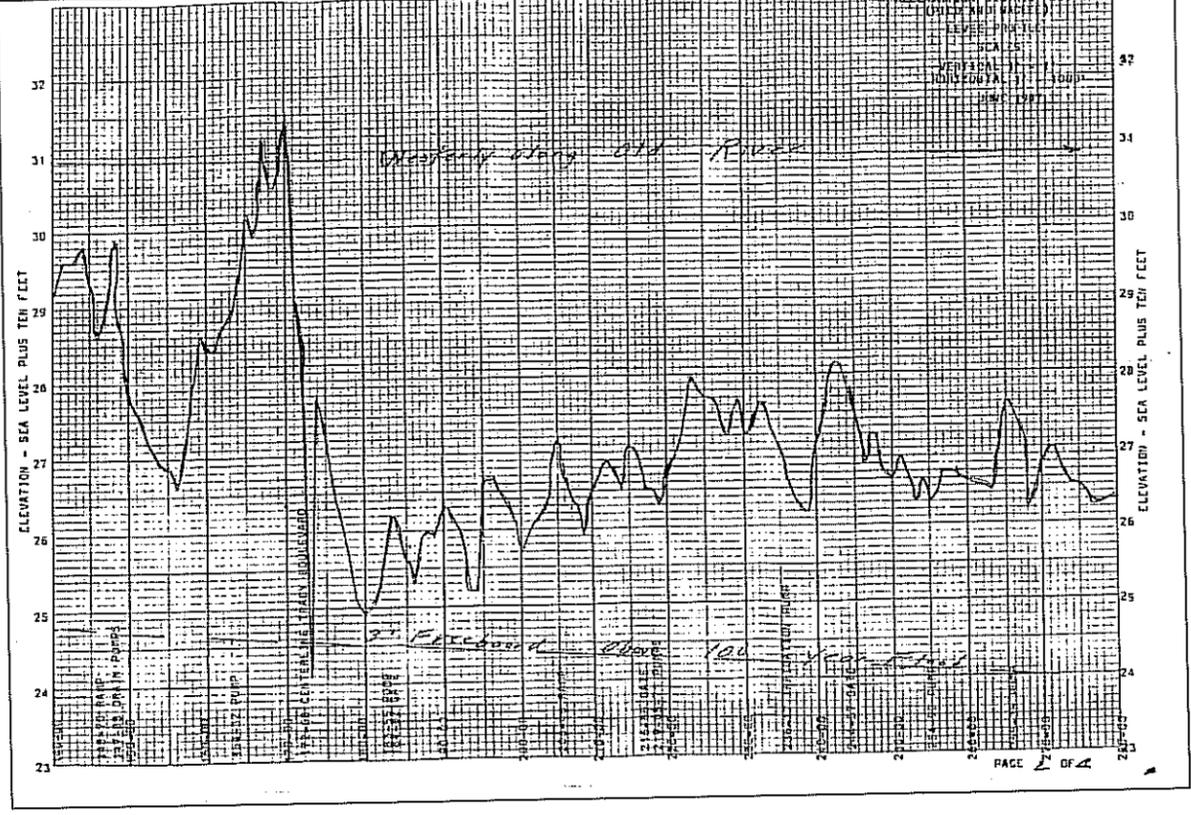
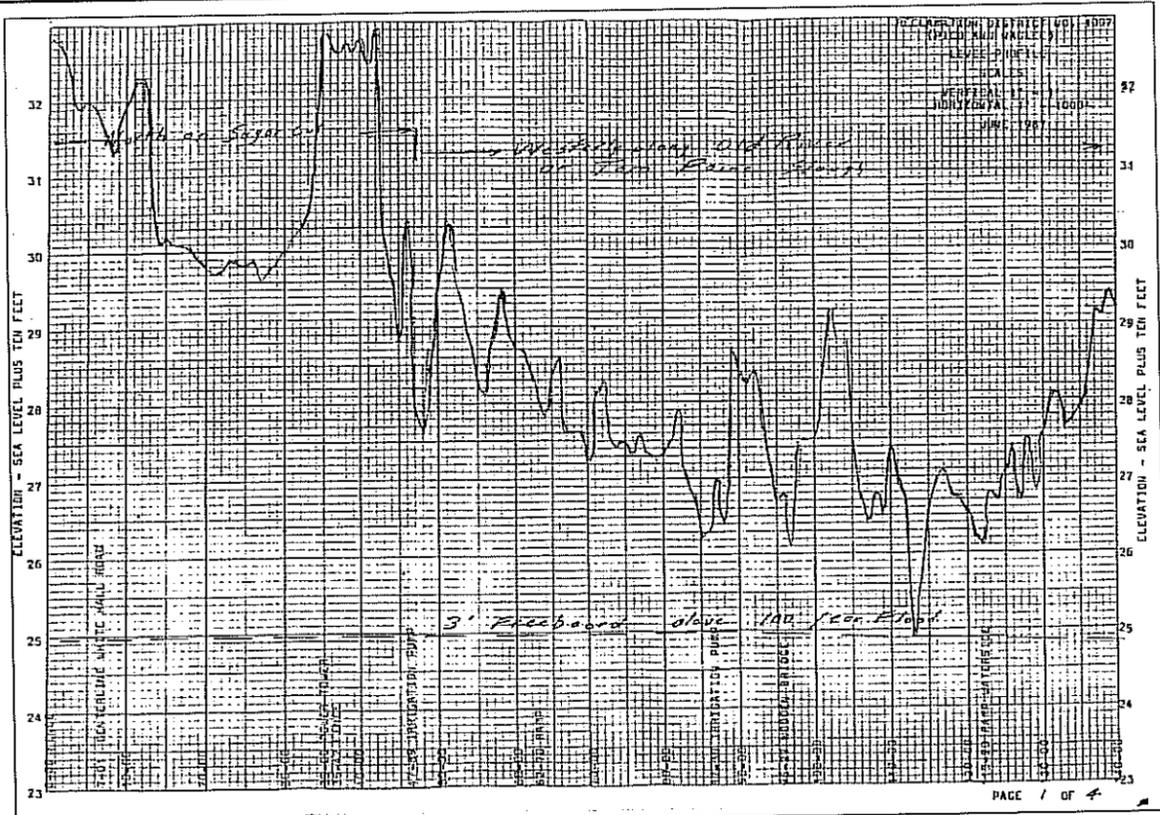
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 TRACY, CA 95304

OWNER:
 HENRY TOSTA
 20662 SAN JOSE RD.
 TRACY, CA 95304
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of 2 Sheets	Rev Level



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B

A.2
C

A.2
D

NOTES:
 CROSS SECTIONS OF THE "OLD RIVER" : AREAS OF INTEREST THAT PERTAIN TO THE DAIRY SITE,
 THAT MIGHT BE MONITORED AND OBSERVED AS THE WEATHER AND CONDITIONS REQUIRE.

"OLD RIVER" LEVEE ELEVATIONS

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TOSTA DAIRY
 "OLD RIVER" LEVEE ELEVATIONS

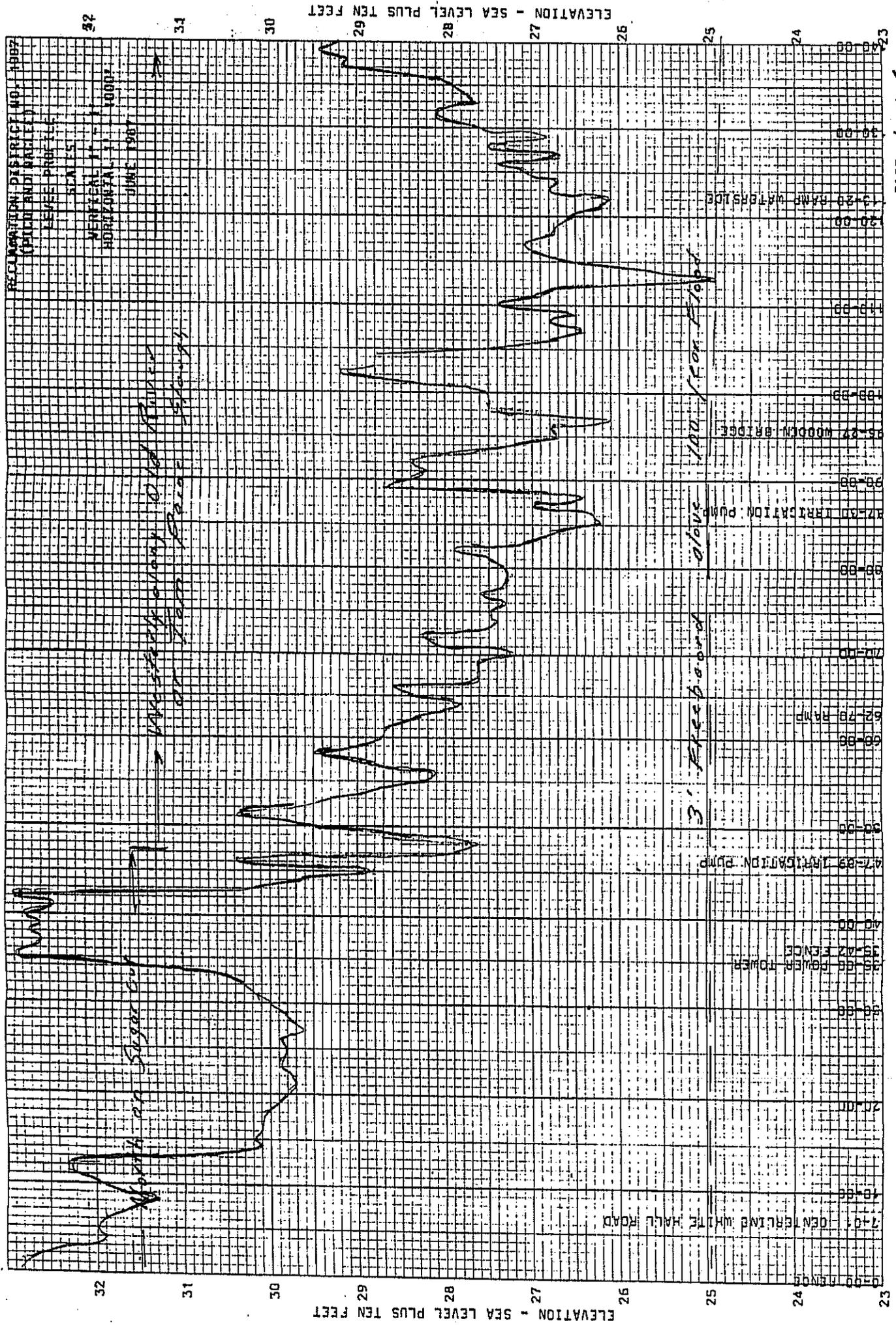
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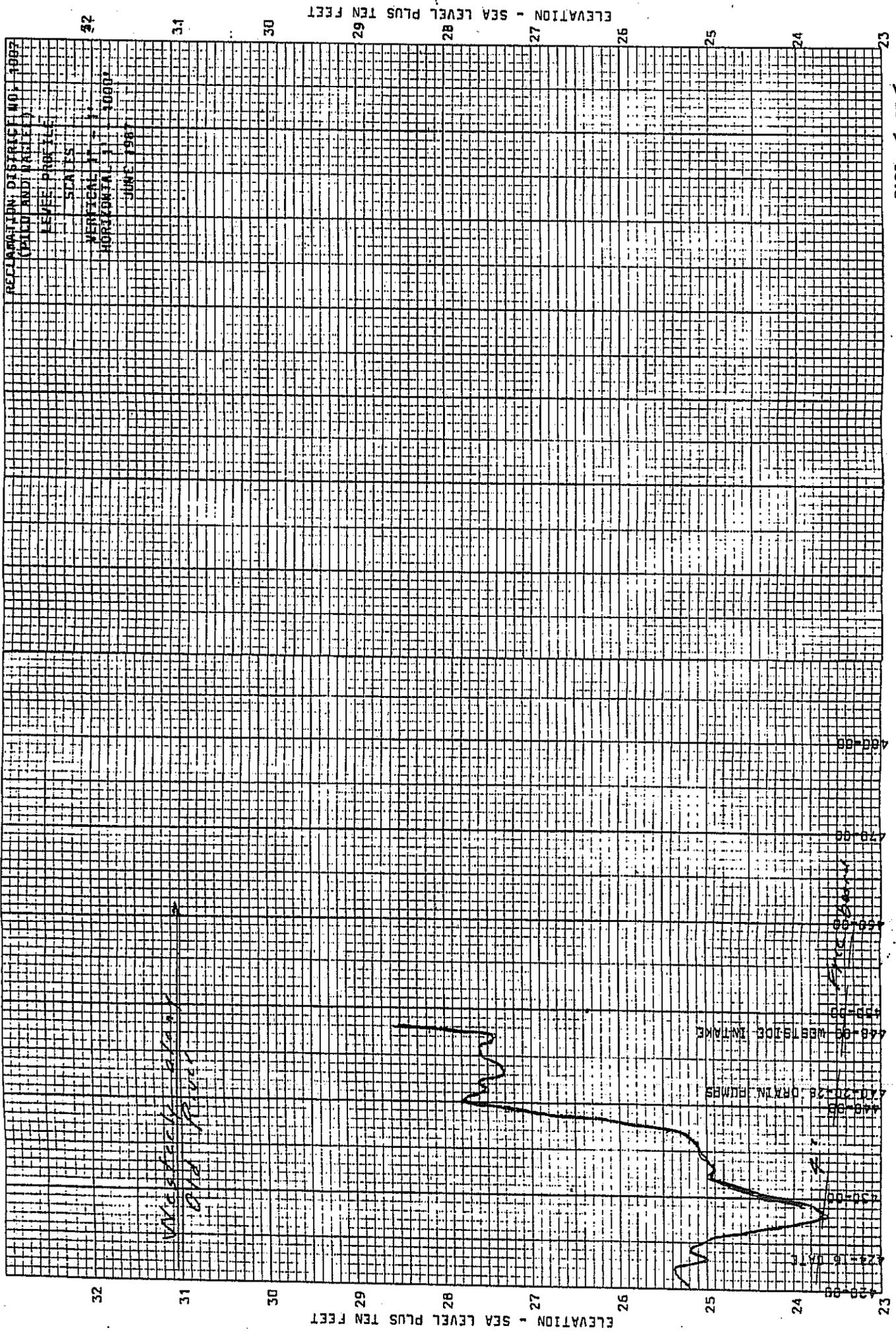
JOB SITE:
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 TRACY, CA 95304

OWNER:
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 www.wddesign.com

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of 2 Sheets	A
	Rev Level





ELEVATION - SEA LEVEL PLUS TEN FEET

32

31

30

29

28

27

26

25

24

23

RECLAMATION DISTRICT NO. 1087
(VALD AND DALE)

LEVEL PROFILE
SCALE

VERTICAL 1" = 100'
HORIZONTAL 1" = 1000'

JUNE 1987

32

31

30

29

28

27

26

25

24

23

ELEVATION - SEA LEVEL PLUS TEN FEET

The NGS Data Sheet

See file dsdata.txt for more information about the datasheet.

DATABASE = Sybase ,PROGRAM = datasheet, VERSION = 7.39

1 National Geodetic Survey, Retrieval Date = SEPTEMBER 15, 2006

HS0452 *****

HS0452 DESIGNATION - Z 933

HS0452 PID - HS0452

HS0452 STATE/COUNTY- CA/SAN JOAQUIN

HS0452 USGS QUAD - UNION ISLAND (1978)

HS0452

HS0452 *CURRENT SURVEY CONTROL

HS0452

HS0452* NAD 83 (1986) - 37 45 02. (N) 121 28 43. (W) SCALED

HS0452* NAVD 88 - 9.92 (+/-2cm) 32.5 (feet) VERTCON

HS0452

HS0452 GEOID HEIGHT- -32.16 (meters) GEOID03

HS0452

HS0452 VERT ORDER - FIRST CLASS II (See Below)

HS0452

HS0452.The horizontal coordinates were scaled from a topographic map and have

HS0452.an estimated accuracy of +/- 6 seconds.

HS0452

HS0452.The NAVD 88 height was computed by applying the VERTCON shift value to

HS0452.the NGVD 29 height (displayed under SUPERSEDED SURVEY CONTROL.)

HS0452.The vertical order pertains to the NGVD 29 superseded value.

HS0452

HS0452.The geoid height was determined by GEOID03.

HS0452

HS0452; North East Units Estimated Accuracy

HS0452;SPC CA 3 - 639,240. 1,913,760. MT (+/- 180 meters Scaled)

HS0452

HS0452 SUPERSEDED SURVEY CONTROL

HS0452

HS0452 NGVD 29 (??/??/92) 9.197 (m) 30.17 (f) ADJ UNCH 1 2

HS0452

HS0452.Superseded values are not recommended for survey control.

HS0452.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

HS0452.See file dsdata.txt to determine how the superseded data were derived.

HS0452

HS0452_U.S. NATIONAL GRID SPATIAL ADDRESS: 10SFG340792(NAD 83)

HS0452_MARKER: DB = BENCH MARK DISK

HS0452_SETTING: 46 = COPPER-CLAD STEEL ROD W/O SLEEVE (10 FT.+)

HS0452_SP_SET: 40 FT

HS0452_STAMPING: Z 933 1958 40 D

HS0452_STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL

HS0452

HS0452 HISTORY - Date Condition Report By

HS0452 HISTORY - 1958 MONUMENTED CGS

HS0452 HISTORY - 1967 GOOD NGS

HS0452

HS0452 STATION DESCRIPTION

HS0452

HS0452'DESCRIBED BY COAST AND GEODETIC SURVEY 1958

HS0452'3.1 MI NW FROM TRACY.

HS0452'3.1 MILES NORTHWEST ALONG THE SOUTHERN PACIFIC COMPANY RAILROAD

HS0452'FROM THE STATION AT TRACY, IN R4E T2S S24, AT THE CROSSING OF

HS0452'A HIGH VOLTAGE POWER LINE, 149 FEET WEST OF THE CENTER OF THE

HS0452'Y JUNCTION OF BYRON AND VON SOSTEN ROADS, ABOUT 100 YARDS SOUTHWEST

HS0452'AND ACROSS BYRON ROAD FROM THE TRACK, UNDER STEEL TOWER 692, 51
HS0452'FEET WEST OF BENCH MARK Y 933, 32 1/2 FEET SOUTH OF THE CENTER
HS0452'LINE OF VON SOSTEN ROAD, 2.8 FEET SOUTH OF THE NORTH STEEL LEG
HS0452'OF THE TOWER, 2.0 FEET EAST OF A WITNESS POST, A DISK ON THE
HS0452'TOP OF A 5/8-INCH COPPER COATED ROD DRIVEN TO REFUSAL AT A DEPTH
HS0452'OF 40 FEET. THE UPPER PORTION OF THE ROD IS ENCASED IN A CONCRETE
HS0452'POST PROJECTING 0.3 FOOT ABOVE THE GROUND.

HS0452

HS0452

STATION RECOVERY (1967)

HS0452

HS0452'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1967

HS0452'RECOVERED IN GOOD CONDITION.

***'retrieval complete.

Elapsed Time = 00:00:00



APPROXIMATE SCALE
 1000 0 1000 FEET

NATIONAL FLOOD INSURANCE PROGRAM

FIRM
 FLOOD INSURANCE RATE MAP

SAN JOAQUIN COUNTY,
 CALIFORNIA
 (UNINCORPORATED AREAS)

PANEL 565 OF 925
 (SEE MAP INDEX FOR PANELS NOT PRINTED)

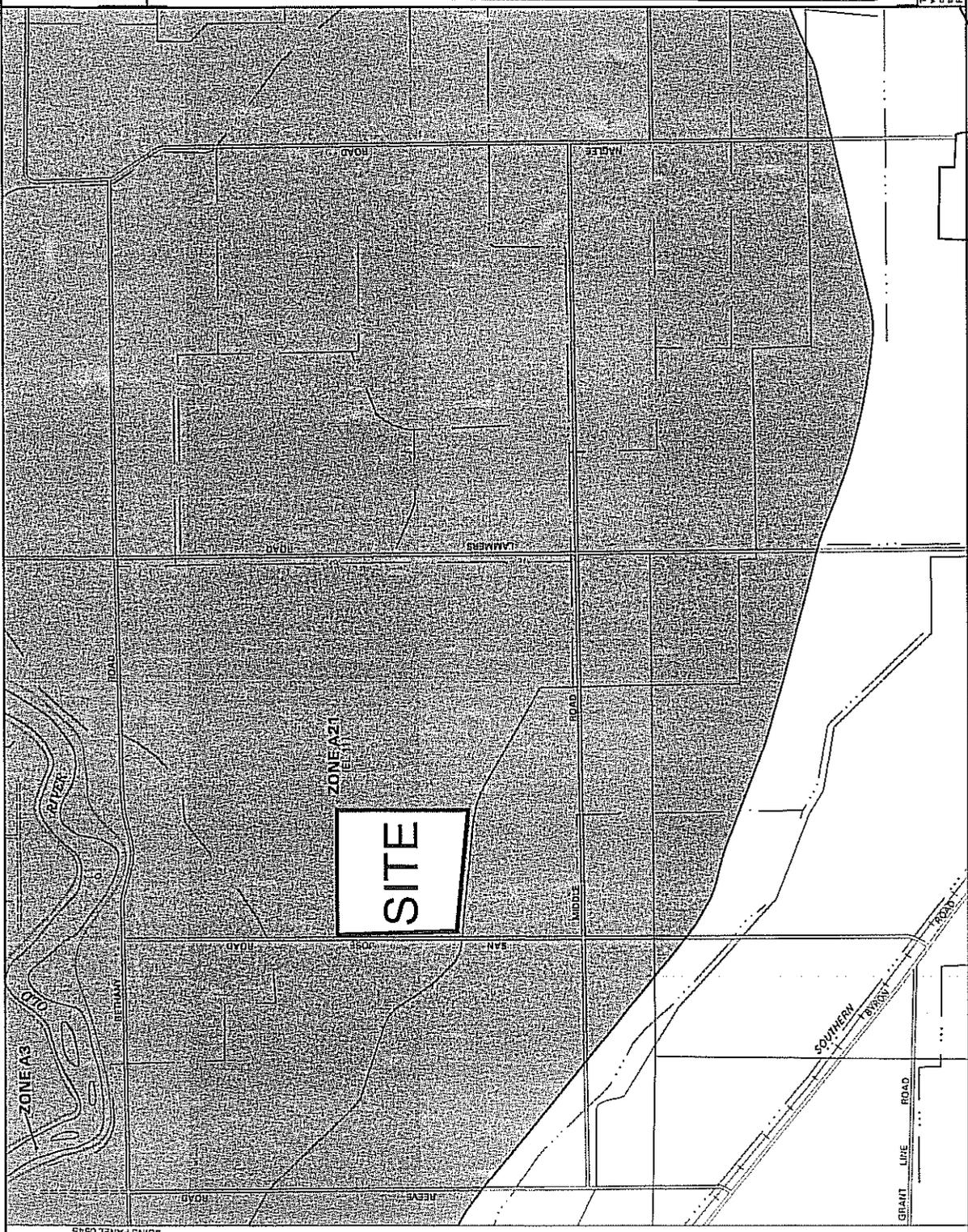
COMMUNITY-PANEL NUMBER
 060299 0565 B

MAP REVISED:
 JULY 4, 1988



Federal Emergency Management Agency

This is an official copy of a portion of the above referenced flood map. It was extracted using F-3411 Drawline. This map does not reflect changes or amendments which may have been made subsequent to the date on the map. For the most current information on the status of the National Flood Insurance Program, flood maps, check the FEMA Flood Map Store at www.fema.gov.



JOINS PANEL 0545



APPROXIMATE SCALE
 1000 0 1000 FEET

NATIONAL FLOOD INSURANCE PROGRAM

**FIRM
 FLOOD INSURANCE RATE MAP**

**SAN JOAQUIN COUNTY,
 CALIFORNIA
 (UNINCORPORATED AREAS)**

PANEL 565 OF 975
 (SEE MAP INDEX FOR PANELS NOT PRINTED)

**COMMUNITY-PANEL NUMBER
 060299 0565 B**

**MAP REVISED:
 JULY 4, 1988**

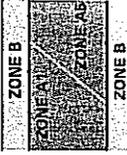


Federal Emergency Management Agency

This is an official copy of a portion of the above referenced flood map. It was prepared using FIRM CH21HW. This map does not reflect changes or amendments which may have been made subsequent to the date on the above referenced flood map. For more information on the National Flood Insurance Program, please check the FEMA Flood Map Store at www.fema.gov.

KEY TO MAP

- 500-Year Flood Boundary _____
- 100-Year Flood Boundary _____
- Zone Designations _____
- 100-Year Flood Boundary _____
- 500-Year Flood Boundary _____
- Base Flood Elevation Line With Elevation In Feet** _____
- Base Flood Elevation In Feet Where Uniform Within Zones** _____
- Elevation Reference Mark _____
- Zone D Boundary _____
- River Mile _____
- _____ • M1.5



**Referenced to the National Geodetic Vertical Datum of 1929

***EXPLANATION OF ZONE DESIGNATIONS**

ZONE	EXPLANATION
A	Area of 100-year flood; base flood elevations and flood hazard factors not determined.
AO	Area of 100-year shallow flooding, where depths of inundation are shown, but no flood hazard factors are determined.
AH	Area of 100-year shallow flooding, where depths are between one (1) and three (3) feet; base flood elevations are shown, but no flood hazard factors are determined.
A1-A30	Area of 100-year flood; base flood elevations and flood hazard factors determined.
ABB	Area of 100-year flood to be protected by flood protection system under construction; base flood elevations and flood hazard factors not determined.
B	Area between limits of the 100-year flood and 500-year flood; or certain areas subject to 100-year flooding with average depth of inundation less than one square mile; or areas protected by levees from the base flood. (Medium shading)
C	Areas of minimal flooding. (No shading)
D	Areas of undetermined, but possible, flood hazards.
V	Areas of 100-year coastal flood with velocity (wave action); base flood elevations and flood hazard factors not determined.
V1-V20	Areas of 100-year coastal flood with velocity (wave action); base flood elevations and flood hazard factors determined.

NOTES TO USER

Certain areas not in the Special Flood Hazard Areas (zones A and V) may be protected by flood control structures.
 This map is for use in administering the National Flood Insurance Program; it does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size, or all climatic features outside Special Flood Hazard Areas.
 Coastal base flood elevations apply only inward of the shoreline shown on this map.
 For adjoining map panels, see separately printed Index to Map Panels.



INITIAL IDENTIFICATION

8. IV PRODUCTION AREA DESIGN /
CONSTRUCTION REPORT



PRODUCTION AREA DESIGN & CONSTRUCTION REPORT

PART I: DAIRY FACILITY INFORMATION

A. Name of Dairy or Business Operating the Dairy: Henry Tosta Dairy

Physical address of Dairy:

20662 South San Jose Road Tracy San Joaquin 95304
Number and Street City County Zip Code

B. Operator Name: Henry Tosta Telephone No: 209-836-1286

Operator mailing address:

20662 South San Jose Road Tracy San Joaquin 95304
Number and Street City County Zip Code

C. Owner Name: Henry Tosta LLP. Telephone No: 209-836-1286

Owner Mailing Address:

20662 South San Jose Road Tracy San Joaquin 95304
Number and Street City County Zip Code

PART II: DESIGN AND CONSTRUCTION DETAILS

A. Corrals and Pens

(1) Is all process wastewater collected in the retention pond? **X**Yes No

If Yes, describe how (circle all that apply):

ditch curbs berm(s) drainpipe slope sumps pumps other

Explain how your system works: All areas slope to drain to the manure storage/settling area at the east of the area.

If No, describe what is done with it: N/A

(2) Is all run on water (clean precipitation and surface drainage) diverted away from the production area? **X**Yes No

If Yes, describe how (circle all that apply):

ditch curbs berm(s) slope elevation other

Explain how your system works: The dairy facility is surrounded with raised farm roads acting as berms to prevent run on water flows from the production site.

If No, identify areas where the run on occurs: N/A

If No, identify how the run on is contained: N/A

(3) If run on water has the potential to contact manure and is not contained, explain what modifications or improvements are proposed, and provide a schedule for construction. (Note: a certification of completion must be provided when complete): N/A

(4) Are there areas where water contacting manure stands for more than 72 hours? Yes No

If No, explain how standing water is avoided: All corrals slope to drain to manure storage/settling areas. The commodity areas are concrete and slope to the manure storage/settling area at the east of the area. During abnormal rainfall years occasionally there are several areas at the manure storage/settling areas that may require pumping of standing water into the manure main storage lagoon.

If Yes, describe what modifications or improvements are proposed, and provide a schedule for construction. (Note: a certification of completion must be provided when complete.): N/A

(5) Are there conveyance structures such as earthen ditches, bermed channels, or swales where manure water stands for more than 72 hours? Yes No

If No, explain how standing water is avoided: All areas slope to drain effluent to the manure storage/settling ponds where manure caps cover any liquids.

If Yes, explain what modifications or improvements are proposed, and provide a schedule for construction. Note: a certification of completion must be provided when complete): N/A

B. Animal Housing Area

(1) Is the animal housing area (i.e., barn, shed, milk parlor, paved and unpaved roadways and areas within the production area, etc.) designed, and constructed to drain all water that has contacted animal wastes to the retention pond? Yes No Partially

If Yes, describe how (circle all that apply)

ditch curbs berm(s) slope elevation drainpipe other

Explain how your system works: All areas slope to drain. The commodity areas are concrete and slope to the manure storage/settling area at the east of the area

If No or Partially, describe the areas not diverted to the retention pond: N/A

For the areas not diverted to the retention pond, explain what modifications or improvements are proposed, and a schedule for construction. (Note: a certification of completion must be provided when complete): N/A

- (2) Are there any areas, outside of the retention system, where water that has contacted manure stands for more than 72 hours? Yes No

If No, describe how your system works to avoid standing water: All areas slope to drain. The commodity areas are concrete and slope to the manure storage/settling area at the east of the area. The corrals all slope to drain. During abnormal rainfall years occasionally there are several areas at the manure storage/settling areas that may require pumping of standing water into the manure main storage lagoon.

If Yes, explain what modifications or improvements are proposed, and provide a schedule for construction. A certification of completion must be provided when complete: N/A

- (3) Are there conveyance structures such as earthen ditches, bermed channels, or swales where water that has contacted manure stands for more than 72 hours, or where parts of the conveyance system are used for storage of manure water? Yes No

If Yes, explain what modifications or improvements are proposed to prevent this condition, and provide a schedule for construction. (Note: a certification of completion must be provided when complete): _____

C. Manure and Feed Storage Area

- (1) Is all leachate or water that has contacted stored manure, bedding, or feed collected in the retention pond? Yes No

If Yes, describe how (circle all that apply):

ditch curbs berm(s) slope drainpipe sumps pumps other

Explain how your system works: All areas slope to drain. The commodity areas are concrete and slope to the manure storage/settling area at the east of the area.

If No, describe where it is collected and what is done with it: N/A

If necessary, explain what modifications or improvements are proposed, and provide a schedule for construction. (Note: a certification of completion must be provided when complete): _____

- (2) Are there any areas where leachate or water contacting stored manure, bedding, or feed stands for more than 72 hours? Yes No

If No, describe how standing leachate and water is prevented or handled: All areas slope to drain. The commodity areas are concrete and slope to the manure storage/settling area at the east of the area.

If Yes, explain what modifications or improvements are proposed, and provide a schedule for construction. (Note: a certification of completion must be provided when complete): N/A

(3) Are there conveyance structures such as earthen ditches, bermed channels, or swales where leachate or water that has contacted stored manure, bedding, or feed stands for more than 72 hours, or are there parts of the system that are used for storage of leachate or manure water?
 Yes No

If Yes, explain what modifications or improvements are proposed to prevent this condition, and provide a schedule for construction. (Notes: a certification of completion must be provided when complete): N/A

PART III: CERTIFICATION OF COMPLETION THAT PROPOSED MODIFICATIONS OR IMPROVEMENTS TO ACHIEVE THE DESIGN AND CONSTRUCTION CRITERIA (due by 1 July 2011)

I certify that the modifications or improvements identified above or similar alternatives were completed to achieve collection and management of all process wastewater, water that has contacted animal wastes, and runoff and leachate from manure and feed storage areas.

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.

Henry Tosta
SIGNATURE OF OWNER

Henry Tosta
SIGNATURE OF OPERATOR

Henry Tosta, LLP
PRINT OR TYPE NAME

Henry Tosta
PRINT OR TYPE NAME

9-17-2010
DATE

9-17-2010
DATE

9. BACKFLOW DOCUMENTATION

**FORM FOR DOCUMENTING BACKFLOW PREVENTION
FOR EXISTING MILK COW DAIRIES UNDER
WASTE DISCHARGE REQUIREMENTS
GENERAL ORDER NO. R5-2007-0035**

PART II: IDENTIFICATION OF EXISTING BACKFLOW CONDITIONS (due by 1 July 2008)

The attached Site Map identifies all of the locations in the Production Area and all Land Application Areas under the control of the Discharger at the dairy identified in Part I above where there are cross-connections that could, or do, allow the backflow of wastewater into a water supply well, irrigation well, or surface water. For each location shown on the map, the table below describes:

- a. Surface water via flood. Dairy was originally built some decades ago, approximately 1950 based on parlor design. It has not been expanded in decades, certainly not since 17 October 2005. Nevertheless, the 100 year area reaches just to the north edge of the dairy facility. The lagoon bank, the field to the west and Reeve Road to the east provide a barrier to 13' NAVD 1988 elevation as stated by the FEMA map panel 590 pf 950 map # 06077C0590F. Reference Appendix A
- b. Backflow of process wastewater into the groundwater:

Location Where Backflow can Occur	How Backflow Can or Does Occur	Current Backflow Preventive Measure
Domestic well-Water Troughs	Inadequate gap at supply valve	Min. 2" gap at supply valve above overflow edge & anti siphon valve at main water supply line to troughs from main water supply tank.
Domestic well-Milking Parlor	Wash hose connections	Anti-siphon valves at each hose connection.

PART III: PROPOSED BACKFLOW CORRECTIVE ACTIONS AND SCHEDULE (due by 1 July 2008)

For each location identified in Part II above where there is currently no backflow prevention, the table below identifies:

- a. The method proposed to be implemented that will prevent backflow, and
- b. A schedule to install the preventive measure.

If there are no current or potential backflow problems identified in Part II above, this Part does not need to be completed.

Location With No Current Backflow Prevention	Proposed Backflow Prevention Method	Schedule to Install Proposed Backflow Prevention Method
None		

PART IV: DOCUMENTATION OF EXISTING BACKFLOW CONDITIONS AND PROPOSED BACKFLOW PREVENTION METHODS (due by 1 July 2008)

As a trained professional in backflow prevention, I certify that, based on the information provided to me by the Discharger named above and my personal examination of the wastewater system, the above information in Part II above is true, accurate, and complete and the proposed backflow prevention method in Part III above will be effective to prevent the backflow of wastewater into a water supply well, irrigation well, or surface water at the dairy named in Part I above.

QUALIFICATIONS OF TRAINED PROFESSIONAL (EDUCATION AND/OR EXPERIENCE)

May 14, 2009 Training in Backflow regulations, problem identification and prevention in agricultural settings, Modesto, CA



SIGNATURE OF TRAINED PROFESSIONAL

DATE 9-17-2010

PRINT OR TYPE NAME

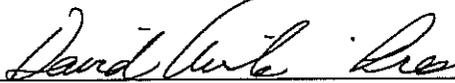
David Avila

PART V: DOCUMENTATION THAT THERE ARE NO CROSS-CONNECTIONS THAT WOULD ALLOW THE BACKFLOW OF WASTEWATER INTO A WATER SUPPLY WELL, IRRIGATION WELL, OR SURFACE WATER (due by 1 July 2009)

As a trained professional in backflow prevention, I certify that, based on the information provided to me by the Discharger named in Part I above and my personal examination of the wastewater system, that the backflow prevention methods proposed in Part III above (if any) have been completed, and/or there are currently no cross-connections that would allow the backflow of wastewater into a water supply well, irrigation well, or surface water at the dairy named in Part I above.

QUALIFICATIONS OF TRAINED PROFESSIONAL (EDUCATION AND/OR EXPERIENCE)

May 14, 2009 Training in Backflow regulations, problem identification and prevention in agricultural settings, Modesto, CA



SIGNATURE OF TRAINED PROFESSIONAL

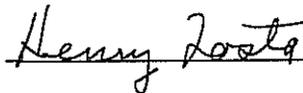
DATE: 9-17-2010

PRINT OR TYPE NAME: David Avila

PART VI: OWNER AND/OR OPERATOR CERTIFICATION

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

SIGNATURE OF OWNER / OPERATOR



PRINT OR TYPE NAME

Henry Tosta

DATE: 9-17-10



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CDQAP – WDR General
Order Reference Binder
TAB 6.23, October 2010

**WASTE MANAGEMENT PLAN
MODIFICATION PROGRESS STATUS REPORT**

As part of the approval of the due date change for the Waste Management Plan (WMP) submittal to July 1, 2010, dairies that identified facility modifications or improvements as part of their WMP are required to submit a status report on the implementation of identified improvements by **December 31, 2010**. Potential retrofitting improvements within the WMP include: storage capacity, flood protection, or design of production area (new pond construction, berms for flood protection, grading for drainage, etc.) Completion of this report form will satisfy the implementation status report requirement. Facilities that *did not* require modifications or improvements as part of their WMP need only complete Parts I, II and IV of this report.

PART I: DAIRY FACILITY INFORMATION

A. Name of Dairy or Business Operating the Dairy: Henry Tosta Dairy

Physical address of Dairy:

<u>20662 San Jose Rd.</u>	<u>Tracy</u>	<u>San Joaquin</u>	<u>95304</u>
Number and Street	City	County	Zip Code

B. Operator Name: Henry Tosta Telephone No: (209) 814-0139

Operator mailing address:

<u>20662 San Jose Rd.</u>	<u>Tracy</u>	<u>San Joaquin</u>	<u>95304</u>
Number and Street	City	County	Zip Code

C. Owner Name: Henry Tosta Telephone No: (209) 814-0139

Owner Mailing Address:

<u>20662 San Jose Rd.</u>	<u>Tracy</u>	<u>San Joaquin</u>	<u>95304</u>
Number and Street	City	County	Zip Code

PART II: REPORT CONTENT

Check the yes or no box for each area within the WMP to indicate where modifications were needed (per the Waste Management Plan) and status updates are included in this report. If no modifications were necessary for your facility, then no additional information is necessary in Part III.

MODIFICATIONS NEEDED (per WMP)

STORAGE CAPACITY	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
FLOOD PROTECTION	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
DESIGN OF PRODUCTION AREA	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

**SIGN
& DATE**

DML

B. Animal Housing Area

Were modifications or improvements identified to ensure that the animal housing area (i.e., barn, shed, milk parlor, paved and unpaved roadways and areas within the production area, etc.) is designed, and constructed to drain all water that has contacted animal wastes to the retention pond and to prevent water from standing for more than 72 hours? Yes No

If Yes, describe progress to date and expected completion date.

C. Manure and Feed Storage Area

Were modifications or improvements proposed to ensure that all leachate or water that has contacted stored manure, bedding, or feed is collected in the retention pond? Yes No

If Yes, describe progress to date and expected completion date:

PART IV: CERTIFICATION OF INFORMATION SUBMITTED

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document 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.

PLEASE NOTE: This form provides a status update on implementation. A final certification of completion of proposed modifications or improvements to the Waste Management Plan is due by July 1, 2011.

X Henry Tosta
SIGNATURE OF OWNER

X Henry Tosta
SIGNATURE OF OPERATOR

Henry Tosta
PRINT OR TYPE NAME

Henry Tosta
PRINT OR TYPE NAME

✓ 12-13-10
DATE

✓ 12-13-10
DATE