

**Annual Report - General Order No. R5-2007-0035**

Reporting period 01/01/2023 to 12/31/2023.

**DAIRY FACILITY INFORMATION****A. NAME OF DAIRY OR BUSINESS OPERATING THE DAIRY:** 4 Star #3 Dairy

Physical address of dairy:

2393 224 AVE  
Number and StreetTulare  
CityTulare  
County93274  
Zip Code

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

Date facility was originally placed in operation: 12/25/2004Regional Water Quality Control Board Basin Plan designation: Tulare Basin

County Assessor Parcel Number(s) for dairy facility:

X155-X200-X001-XXXX**B. OPERATORS**

Mattos, Mario

Operator name: Mattos, Mario

Telephone no.:

(559) 901-4861

Landline

Cellular

2393 224 AVETulare  
CityCA  
State93274  
Zip Code

Mailing Address Number and Street

**This operator is responsible for paying permit fees.****C. OWNERS**

Mattos, Mario

Legal owner name: Mattos, Mario

Telephone no.:

(559) 901-4861

Landline

Cellular

2393 224 AVETulare  
CityCA  
State93274  
Zip Code

Mailing Address Number and Street

**This owner is responsible for paying permit fees.**

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## AVAILABLE NUTRIENTS

### A. HERD INFORMATION

	Milk Cows	Dry Cows	Bred Heifers (15-24 mo.)	Heifers (7-14 mo. to breeding)	Calves (4-6 mo.)	Calves (0-3 mo.)
Number open confinement	358	60	142	120	0	0
Number under roof	0	0	0	0	0	0
Maximum number	358	60	142	120	0	0
Average number	358	60	142	120	0	0
Avg live weight (lbs)	1,100	1,160	800	600		

Predominant milk cow breed: Jersey

Average milk production: 60 pounds per cow per day

### B. MANURE GENERATED

Total manure excreted by the herd: 12,055.15 tons per reporting period

Total nitrogen from manure: 150,386.51 lbs per reporting period

After ammonia losses (30% loss applied): 105,270.56 lbs per reporting period

Total phosphorus from manure: 24,969.51 lbs per reporting period

Total potassium from manure: 66,208.24 lbs per reporting period

Total salt from manure: 182,361.30 lbs per reporting period

### C. PROCESS WASTEWATER GENERATED

Process wastewater generated: 6,439,500 gallons

Total nitrogen generated: 21,776.21 lbs

Total phosphorus generated: 4,367.36 lbs

Total potassium generated: 31,513.61 lbs

Total salt generated: 189,184.61 lbs

	6,439,500 gallons applied
+	0 gallons exported
-	0 gallons imported
=	6,439,500 gallons generated

### D. FRESH WATER SOURCES

Source Description	Type
P-10	Ground water
P-11 canal	Surface water
P-14	Ground water
P-9	Ground water

**E. SUBSURFACE (TILE) DRAINAGE SOURCES**

*No subsurface (tile) drainage sources entered.*

**F. NUTRIENT IMPORTS**

*No dry manure nutrient imports entered.*

*No process wastewater nutrient imports entered.*

*No commercial or other nutrient imports entered.*

**G. NUTRIENT EXPORTS**

*No solid nutrient exports entered.*

*No liquid nutrient exports entered.*

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**APPLICATION AREA**

**A. LIST OF LAND APPLICATION AREAS**

Field name	Controlled acres	Cropable acres	Total harvests	Type of waste applied	Parcel number
#15	70	70	2	both	X155-X200-X001-XXXX
#16	24	24	2	both	X155-X200-X001-XXXX
#17	51	51	0	none	X155-X200-X001-XXXX
#18A	74	74	0	none	X155-X200-X001-XXXX
#18B	25	25	0	none	X155-X200-X001-XXXX
Totals for areas that were used for application	94	94	4		
Totals for areas that were not used for application	150	150	0		
Land application area totals	244	244	4		

**B. CROPS AND HARVESTS**

#15

Field name: #15

10/30/2022: Wheat, silage, boot stage

Crop: Wheat, silage, boot stage Acres planted: 70 Plant date: 10/30/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/20/2023	1,278.00 <i>ton</i>	Dry-weight		64.5	15,300.00	3,400.00	14,400.00		8.97

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	0.00
Total actual harvest content	18.26	198.33	44.07	186.66	1,162.74

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#15

06/15/2023: Corn, silage

Crop: Corn, silage Acres planted: 70 Plant date: 06/15/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/16/2023	2,009.00 ton	Dry-weight		74.1	10,500.00	2,300.00	17,700.00		6.58

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	0.00
Total actual harvest content	28.70	156.10	34.19	263.14	978.22

#16

Field name: #16

10/31/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 24 Plant date: 10/31/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/17/2023	433.00 ton	Dry-weight		61.1	10,600.00	2,500.00	9,000.00		7.80

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	0.00
Total actual harvest content	18.04	148.79	35.09	126.33	1,094.84

06/01/2023: Corn, silage

Crop: Corn, silage Acres planted: 24 Plant date: 06/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/05/2023	700.00 ton	Dry-weight		68.1	7,600.00	2,800.00	14,100.00		5.79

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	0.00
Total actual harvest content	29.17	141.42	52.10	262.38	1,077.42

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## NUTRIENT BUDGET

## A. LAND APPLICATIONS

#15 - 10/30/2022: Wheat, silage, boot stage

Field name: #15

Crop: Wheat, silage, boot stage

Plant date: 10/30/2022

Application date	Application method		Precipitation 24 hours prior	Precipitation during application			Precipitation 24 hours following	
10/28/2022	Broadcast/incorporate		No precipitation	No precipitation			No precipitation	
Source description			Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure			Corral solids	156.97	52.09	43.64	70.39	710.00 <i>ton</i>
Application event totals				156.97	52.09	43.64	70.39	
10/31/2022	Pipeline		No precipitation	No precipitation			No precipitation	
Source description			Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon			Process wastewater	50.65	11.22	105.15	611.61	1,470,000.00 <i>gal</i>
P-11 canal			Surface water	0.26	0.00	0.00	69.68	10,824,000.00 <i>gal</i>
Application event totals				50.90	11.22	105.15	681.29	
04/09/2023	Pipeline		No precipitation	No precipitation			No precipitation	
Source description			Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon			Process wastewater	52.45	11.62	108.90	633.45	1,522,500.00 <i>gal</i>
P-11 canal			Surface water	0.27	0.00	0.00	72.65	11,286,000.00 <i>gal</i>
Application event totals				52.72	11.62	108.90	706.10	

#15 - 06/15/2023: Corn, silage

Field name: #15

Crop: Corn, silage

Plant date: 06/15/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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## #15 - 06/15/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following			
05/26/2023	Broadcast/incorporate	No precipitation	No precipitation	No precipitation			
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure		Corral solids	54.75	19.62	19.94	31.65	426.00 <i>ton</i>
Application event totals			54.75	19.62	19.94	31.65	
05/27/2023	Pipeline	No precipitation	No precipitation	No precipitation			
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
P-11 canal		Surface water	0.26	0.00	0.00	71.38	11,088,000.00 <i>gal</i>
Application event totals			0.26	0.00	0.00	71.38	
06/22/2023	Pipeline	No precipitation	No precipitation	No precipitation			
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon		Process wastewater	70.04	11.74	68.70	395.52	864,000.00 <i>gal</i>
P-11 canal		Surface water	0.23	0.00	0.00	62.46	9,702,000.00 <i>gal</i>
Application event totals			70.27	11.74	68.70	457.98	
07/24/2023	Pipeline	No precipitation	No precipitation	No precipitation			
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
P-11 canal		Surface water	0.26	0.00	0.00	70.53	10,956,000.00 <i>gal</i>
Application event totals			0.26	0.00	0.00	70.53	
08/19/2023	Pipeline	No precipitation	No precipitation	No precipitation			
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon		Process wastewater	69.55	13.99	63.35	442.10	1,107,000.00 <i>gal</i>
P-11 canal		Surface water	0.27	0.00	0.00	72.65	11,286,000.00 <i>gal</i>
Application event totals			69.82	13.99	63.35	514.75	

## #16 - 10/31/2022: Wheat, silage, soft dough

Field name: #16

Crop: Wheat, silage, soft dough

Plant date: 10/31/2022

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## #16 - 10/31/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
10/29/2022	Broadcast/incorporate	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure	Corral solids	96.73	32.10	26.89	43.38	150.00 <i>ton</i>
Application event totals		96.73	32.10	26.89	43.38	
11/01/2022	Pipeline	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	51.70	11.45	107.34	624.35	514,500.00 <i>gal</i>
P-11 canal	Surface water	0.24	0.00	0.00	64.44	3,432,000.00 <i>gal</i>
Application event totals		51.94	11.45	107.34	688.79	
04/14/2023	Pipeline	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	49.59	10.98	102.96	598.86	493,500.00 <i>gal</i>
P-11 canal	Surface water	0.24	0.00	0.00	64.44	3,432,000.00 <i>gal</i>
Application event totals		49.83	10.98	102.96	663.30	

## #16 - 06/01/2023: Corn, silage

Field name: #16

Crop: Corn, silage

Plant date: 06/01/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application			Precipitation 24 hours following	
05/18/2023	Broadcast/incorporate	No precipitation	No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Manure		Corral solids	56.23	20.15	20.48	32.50	150.00 <i>ton</i>
Application event totals			56.23	20.15	20.48	32.50	



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**#16 - 06/01/2023: Corn, silage**

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
05/19/2023	Pipeline	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
P-11 canal	Surface water	0.22	0.00	0.00	59.48	3,168,000.00 <i>gal</i>
Application event totals		0.22	0.00	0.00	59.48	
06/19/2023	Pipeline	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	55.33	9.28	54.27	312.44	234,000.00 <i>gal</i>
P-11 canal	Surface water	0.25	0.00	0.00	66.92	3,564,000.00 <i>gal</i>
Application event totals		55.58	9.28	54.27	379.36	
07/13/2023	Pipeline	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
P-11 canal	Surface water	0.24	0.00	0.00	65.68	3,498,000.00 <i>gal</i>
Application event totals		0.24	0.00	0.00	65.68	
08/15/2023	Pipeline	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	42.88	8.62	39.05	272.57	234,000.00 <i>gal</i>
P-11 canal	Surface water	0.22	0.00	0.00	60.72	3,234,000.00 <i>gal</i>
Application event totals		43.10	8.62	39.05	333.29	

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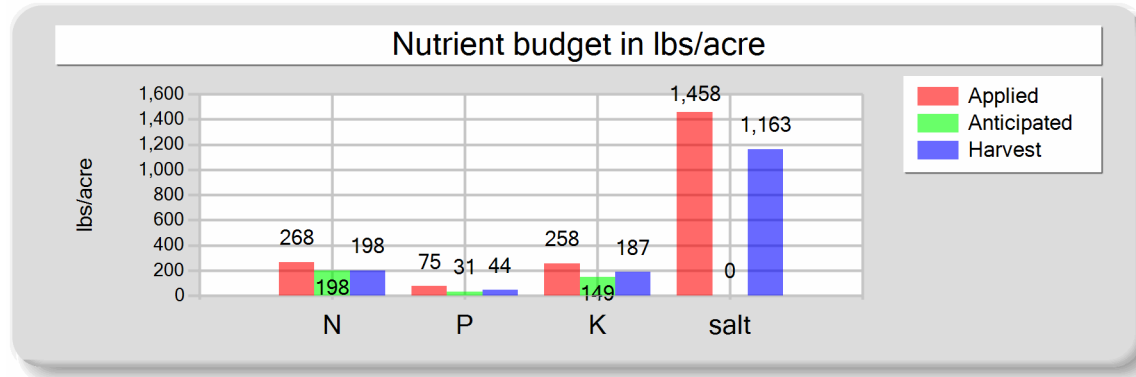
## B. NUTRIENT BUDGET

#15 - 10/30/2022: Wheat, silage, boot stage

Field name: #15

Crop: Wheat, silage, boot stage

Plant date: 10/30/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	22,110,000.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	814.24 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	11.63 inches/acre
Dry manure	156.97	52.09	43.64	70.39	
Process wastewater	103.10	22.83	214.05	1,245.05	
Fresh water	0.53	0.00	0.00	142.33	
Atmospheric deposition	7.00	0.00	0.00	0.00	
Total nutrients applied	267.60	74.92	257.69	1,457.78	
Anticipated crop nutrient removal	198.00	30.60	149.40	0.00	
Actual crop nutrient removal	198.33	44.07	186.66	1,162.74	
Nutrient balance	69.27	30.85	71.03	295.04	
Applied to removed ratio	1.35	1.70	1.38	1.25	
					Process wastewater applied
					2,992,500.00 gallons
					110.20 acre-inches
					1.57 inches/acre
					Total harvests for the crop
					1 harvests

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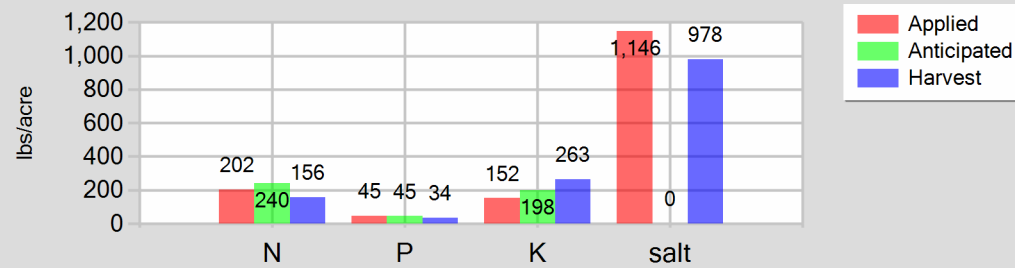
#15 - 06/15/2023: Corn, silage

Field name: #15

Crop: Corn, silage

Plant date: 06/15/2023

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	43,032,000.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	1,584.72 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	22.64 inches/acre
Dry manure	54.75	19.62	19.94	31.65	
Process wastewater	139.59	25.73	132.05	837.62	
Fresh water	1.03	0.00	0.00	277.02	
Atmospheric deposition	7.00	0.00	0.00	0.00	
Total nutrients applied	202.36	45.35	151.98	1,146.29	
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00	
Actual crop nutrient removal	156.10	34.19	263.14	978.22	
Nutrient balance	46.26	11.16	-111.15	168.07	
Applied to removed ratio	1.30	1.33	0.58	1.17	
					Process wastewater applied
					1,971,000.00 gallons
					72.59 acre-inches
					1.04 inches/acre
					Total harvests for the crop
					1 harvests

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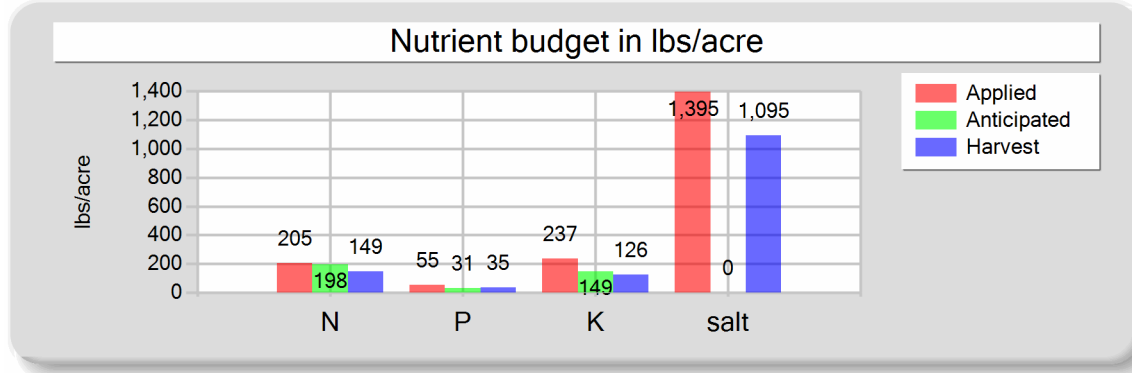
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#16 - 10/31/2022: Wheat, silage, soft dough

Field name: #16

Crop: Wheat, silage, soft dough

Plant date: 10/31/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	96.73	32.10	26.89	43.38
Process wastewater	101.29	22.43	210.29	1,223.21
Fresh water	0.48	0.00	0.00	128.88
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	205.50	54.53	237.19	1,395.47
Anticipated crop nutrient removal	198.00	30.60	149.40	0.00
Actual crop nutrient removal	148.79	35.09	126.33	1,094.84
Nutrient balance	56.71	19.44	110.86	300.62
Applied to removed ratio	1.38	1.55	1.88	1.27

Fresh water applied
6,864,000.00 <i>gallons</i>
252.78 <i>acre-inches</i>
10.53 <i>inches/acre</i>

Process wastewater applied
1,008,000.00 <i>gallons</i>
37.12 <i>acre-inches</i>
1.55 <i>inches/acre</i>

Total harvests for the crop
1 <i>harvests</i>

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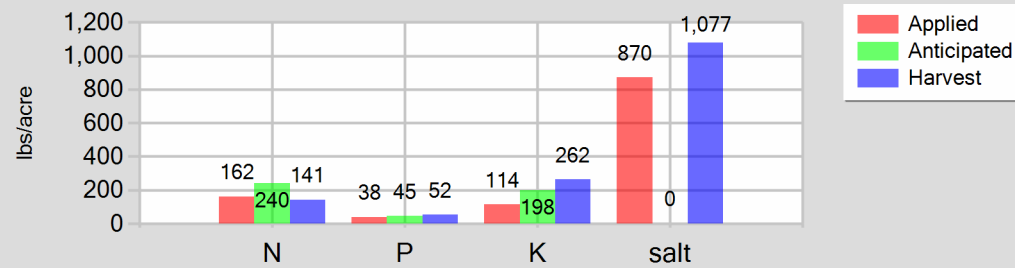
#16 - 06/01/2023: Corn, silage

Field name: #16

Crop: Corn, silage

Plant date: 06/01/2023

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	56.23	20.15	20.48	32.50
Process wastewater	98.21	17.90	93.32	585.01
Fresh water	0.94	0.00	0.00	252.80
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	162.37	38.05	113.80	870.31
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	141.42	52.10	262.38	1,077.42
Nutrient balance	20.94	-14.05	-148.58	-207.11
Applied to removed ratio	1.15	0.73	0.43	0.81

Fresh water applied
13,464,000.00 gallons
495.83 acre-inches
20.66 inches/acre

Process wastewater applied
468,000.00 gallons
17.23 acre-inches
0.72 inches/acre

Total harvests for the crop
1 harvests

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## NUTRIENT ANALYSES

### A. MANURE ANALYSES

#### M43953-01 Valley Tech

Sample and source description: M43953-01 Valley Tech

Sample date: 03/06/2023 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 65.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	22,300.00	7,400.00	6,200.00	0.01	0.01	0.01	0.01	0.01		1.00
DL	0.01	0.02	0.02	0.01	0.01	0.01	0.01	0.01		1.00

#### M67204-01 Valley Tech

Sample and source description: M67204-01 Valley Tech

Sample date: 09/28/2023 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 74.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	17,300.00	6,200.00	6,300.00	0.01	0.01	0.01	0.01	0.01		1.00
DL	0.01	0.02	0.02	0.01	0.01	0.01	0.01	0.01		1.00

### B. PROCESS WASTEWATER ANALYSES

#### L42238-01 Valley Tech

Sample and source description: L42238-01 Valley Tech

Sample date: 01/26/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 0.00

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	289.00	152.00	0.00	0.00	64.00	600.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	5.25	3,490
DL	10.00	2.00	2.00	2.00	0.20	0.50	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.10	10

# Annual Report - General Order No. R5-2007-0035

Reporting period 01/01/2023 to 12/31/2023.

## L45339-01 Valley Tech

Sample and source description: L45339-01 Valley Tech

Sample date: 04/03/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 0.00

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
<b>Value</b>	680.00	249.00	0.00	0.00	114.00	667.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	5.78	3,840
<b>DL</b>	10.00	2.00	2.00	2.00	0.20	0.50	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.10	10

## L63598-01 Valley Tech

Sample and source description: L63598-01 Valley Tech

Sample date: 08/30/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 0.00

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
<b>Value</b>	527.00	229.00	0.00	0.00	106.00	480.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	5.05	3,350
<b>DL</b>	10.00	2.00	2.00	2.00	0.20	0.50	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.10	10

## L74165-01 Valley Tech

Sample and source description: L74165-01 Valley Tech

Sample date: 12/11/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 0.00

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
<b>Value</b>	472.00	340.00	0.00	0.00	81.40	608.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	6.27	4,160
<b>DL</b>	10.00	2.00	2.00	2.00	0.20	0.50	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.10	10

## C. FRESH WATER ANALYSES

P-11 canal

**Annual Report - General Order No. R5-2007-0035**

Reporting period 01/01/2023 to 12/31/2023.

P-11 canal

23E0710-01 Dellavalle

Sample description: 23E0710-01 Dellavalle

Sample date: 05/08/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	0.20	0.00	0.20	0.01	0.01	0.01	0.01	0.01	0.01	0.01	67.40	54
DL	0.10	0.10	0.10	0.01	0.01	0.01	0.01	0.01	0.01	0.01	10.00	10

**D. SOIL ANALYSES**

No soil analyses entered.

**E. PLANT TISSUE ANALYSES**

#15 - 10/30/2022: Wheat, silage, boot stage

H50974-01 Valley Tech

Sample and source description: H50974-01 Valley Tech

Sample date: 05/20/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 64.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	15,300.00	3,400.00	14,400.00		8.97
DL	0.05	0.02	0.02		0.05

#15 - 06/15/2023: Corn, silage



**Annual Report - General Order No. R5-2007-0035**

Reporting period 01/01/2023 to 12/31/2023.

#15 - 06/15/2023: Corn, silage

H66828-01 Valley Tech

Sample and source description: H66828-01 Valley Tech

Sample date: 09/16/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 74.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	10,500.00	2,300.00	17,700.00		6.58
<b>DL</b>	0.05	0.02	0.02		0.05

#16 - 10/31/2022: Wheat, silage, soft dough

50675 Valley Tech

Sample and source description: 50675 Valley Tech

Sample date: 05/17/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 61.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	10,600.00	2,500.00	9,000.00		7.80
<b>DL</b>	0.05	0.02	0.05		0.05

#16 - 06/01/2023: Corn, silage

H64113-01 Valley Tech

Sample and source description: H64113-01 Valley Tech

Sample date: 09/05/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 68.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	7,600.00	2,800.00	14,100.00		5.79
<b>DL</b>	0.05	0.02	0.02		0.05

**F. SUBSURFACE (TILE) DRAINAGE ANALYSES**

*No subsurface (tile) drainage analyses entered.*

**Annual Report - General Order No. R5-2007-0035**

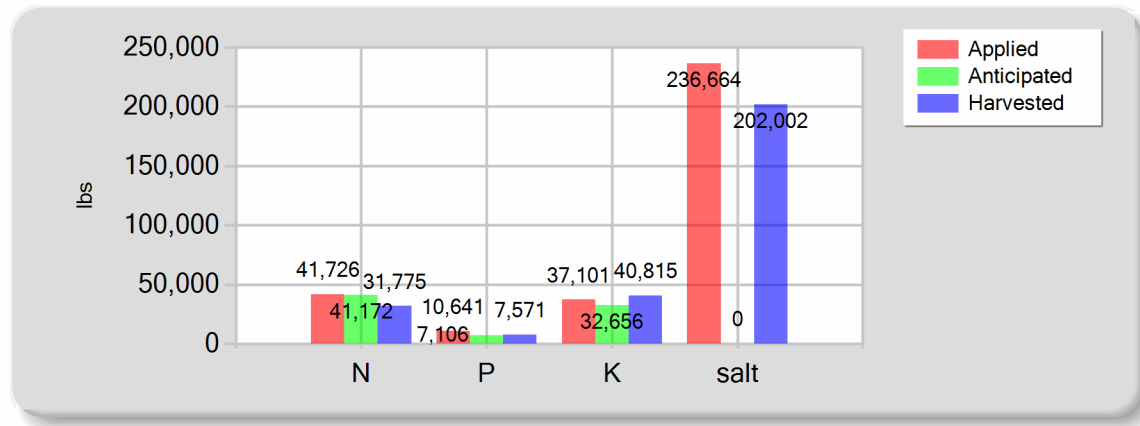
Reporting period 01/01/2023 to 12/31/2023.

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

**A. SUMMARY OF NUTRIENT APPLICATIONS, POTENTIAL REMOVAL, AND BALANCE**

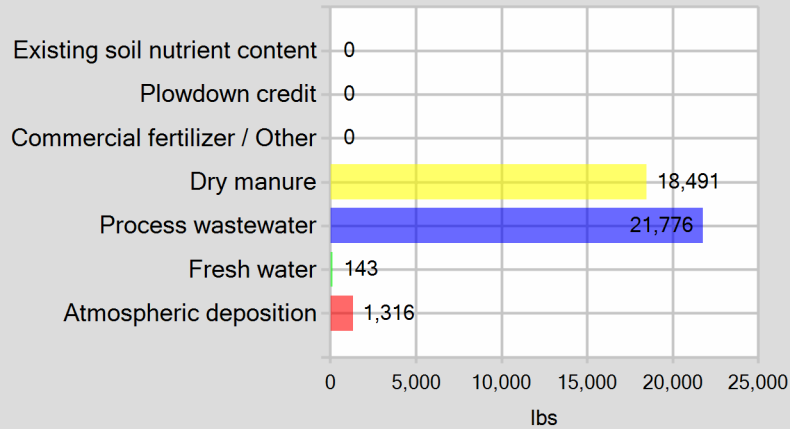
	Total N (lbs)	Total P (lbs)	Total K (lbs)	Total salt (lbs)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	18,491.23	6,273.64	5,587.38	8,963.60
Process wastewater	21,776.21	4,367.36	31,513.61	189,184.61
Fresh water	142.65	0.00	0.00	38,515.35
Atmospheric deposition	1,316.00	0.00	0.00	0.00
Total nutrients applied	41,726.08	10,641.00	37,100.99	236,663.56
Anticipated crop nutrient removal	41,172.00	7,106.40	32,655.60	0.00
Actual crop nutrient removal	31,774.89	7,571.28	40,814.92	202,001.86
Nutrient balance	9,951.19	3,069.72	-3,713.92	34,661.70
Applied to removed ratio	1.31	1.41	0.91	1.17

**B. POUNDS OF NUTRIENT APPLIED VS. CROP REMOVAL**

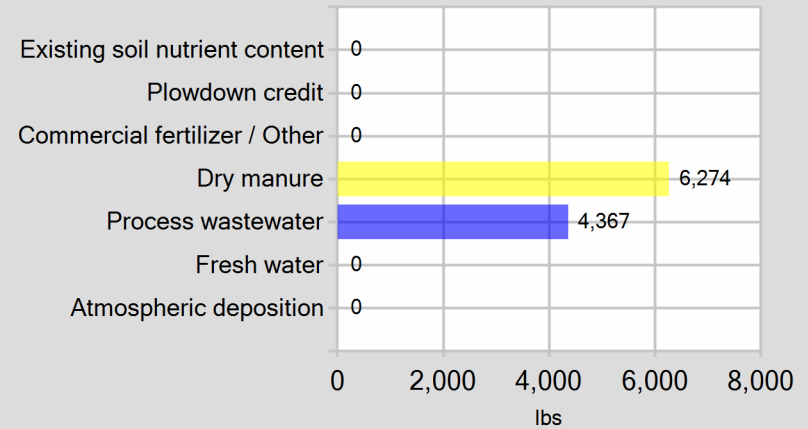


## C. POUNDS OF NUTRIENT APPLIED BY MATERIAL TYPE

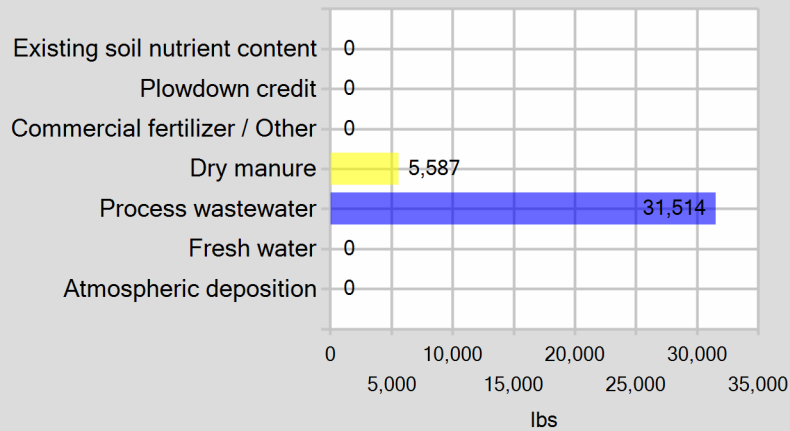
Pounds of nitrogen applied



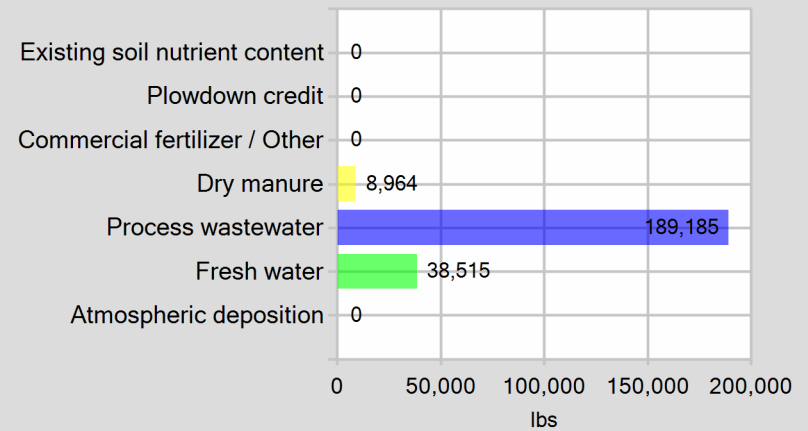
Pounds of phosphorus applied



Pounds of potassium applied



Pounds of salt applied



**Annual Report - General Order No. R5-2007-0035**

*Reporting period 01/01/2023 to 12/31/2023.*

**EXCEPTION REPORTING**

**A. MANURE, PROCESS WASTEWATER, AND OTHER DAIRY WASTE DISCHARGES**

The following is a summary of all manure and process wastewater discharges from the production area to surface water or to land areas (land application areas or otherwise) when not in accordance with the facility's Nutrient Management Plan.

*No manure or process wastewater discharges occurred during the reporting period.*

**B. STORM WATER DISCHARGES**

The following is a summary of all storm water discharges from the production area to surface water during the reporting period when not in accordance with the facility 's Nutrient Management Plan.

*No stormwater discharges occurred during the reporting period.*

**C. LAND APPLICATION AREA TO SURFACE WATER DISCHARGES**

The following is a summary of all discharges from the land application area to surface water that have occurred during the reporting period when not in accordance with the facility's Nutrient Management Plan.

*No land application area to surface water discharges occurred during the reporting period.*

**NUTRIENT MANAGEMENT PLAN AND EXPORT AGREEMENT STATEMENTS**

**A. NUTRIENT MANAGEMENT PLAN STATEMENTS**

Was the facility's NMP updated in the reporting period? Yes

Was the facility's NMP developed by a certified nutrient management planner (specialist) as specified in Attachment C of the General Order? Yes

Was the facility's NMP approved by a certified nutrient management planner (specialist) as specified in Attachment C of the General Order? Yes

**B. EXPORT AGREEMENT STATEMENT**

Are there any written agreements with third parties to receive manure or process wastewater that are new or were revised within the reporting period? No

**Annual Report - General Order No. R5-2007-0035**

*Reporting period 01/01/2023 to 12/31/2023.*

ADDITIONAL NOTES

**A. NOTES**

1.) AG Wells 9,10 & 14 were not available during reporting period.

Annual Report - General Order No. R5-2007-0035  
Reporting period 01/01/2023 to 12/31/2023.

CERTIFICATION

A. 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 OF FACILITY	SIGNATURE OF OPERATOR OF FACILITY
Mario Mattos	SAME AS OWNER
PRINT OR TYPE NAME	PRINT OR TYPE NAME
DATE	DATE

CERTIFICATION

A. 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 OF FACILITY	SIGNATURE OF OPERATOR OF FACILITY
Mario Mattos	SAME AS OWNER
PRINT OR TYPE NAME	PRINT OR TYPE NAME
4-23-24	
DATE	DATE



**Annual Report - General Order No. R5-2007-0035**

*Reporting period 01/01/2023 to 12/31/2023.*

**ATTACHMENTS**

**A. REQUIRED ATTACHMENTS**

The following lists the required documents that should be attached to the Annual Report when submitted .

**Annual Dairy Facility Assessment**

Provide an Annual Dairy Facility Assessment (an update to the Preliminary Dairy Facility Assessment in Attachment A) for each reporting period. On the PDFa Final page, click on the ADFA Report button to generate an ADFA report after updating information as needed .

**Manure/Process Wastewater Tracking Manifests**

Provide copies of all manure/process wastewater tracking manifests for the reporting period, signed by both the owner/operator and the hauler.

**Corrective Actions Documents**

Provide records documenting any corrective actions taken to correct deficiencies noted as a result of the inspections required in the Monitoring Requirements of the General Order. Deficiencies not corrected in 30 days must be accompanied by an explanation of the factors preventing immediate correction.

**Groundwater Monitoring**

Dischargers that monitor supply wells or subsurface (tile) drainage systems, or that have monitoring well systems must submit monitoring results as directed in the General Order, Groundwater Reporting Section starting on page MRP-13.

**Storm Water Monitoring**

Dischargers that are required to monitor storm water more frequently than required in the General Order must submit monitoring results as directed in the General Order, Storm Water Reporting Section on page MRP-14.

Roxey J Avila  
740 S. Kazarian St.  
Tulare, CA 93274

Account# 00-0024349  
Account Manager: Ben Nydam  
Submitted By: Roxey  
Ranch: 4 Star Dairy #3

Received: 02/02/2023 7:15  
Reported: 02/03/2023 14:37

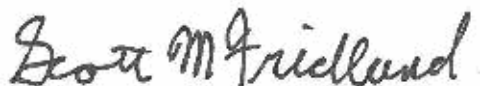
## Samples in this Report

Lab ID	Sample	Matrix	Sampled By	Crop	Date Sampled
23B0250-01	D-13	Drinking Water	Justin		02/01/2023 12:19

Default Cooler      Temperature on Receipt °C: 7.6  
Containers Intact  
COC/Labels Agree  
Received On Ice

## Notes and Definitions

Item	Definition
H	Hold Time Exceeded
MCL	Drinking Water Maximum Contaminant Level
ND	Analyte NOT DETECTED at or above the reporting limit.
NES	Not Enough Sample
*	Not Taken
RPD	Relative Percent Difference
%REC	Percent Recovery
Source	Sample that was matrix spiked or duplicated.



Laboratory Director/Technical Manager

ELAP Certification #1595  
A2LA Certification #6440.02

Roxey J Avila  
740 S. Kazarian St.  
Tulare, CA 93274

Account# 00-0024349  
Account Manager: Ben Nydam  
Submitted By: Roxey  
Ranch: 4 Star Dairy #3

Received: 02/02/2023 7:15  
Reported: 02/03/2023 14:37

### Sample Results

**Sample: D-13**  
**23B0250-01 (Water)**

Sampled: 2/1/2023 12:19  
Sampled By: Justin

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
<b>Electrical Conductivity</b>	<b>0.59</b>	mmhos/cm	0.01	1		02/03/23 11:55	SM 2510 B		BEB0062
<b>Electrical Conductivity umhos</b>	<b>594</b>	umhos/cm	10.0	1		02/03/23 11:55	SM 2510 B		BEB0062
Ammonia (as N)	ND	mg/L	0.00	1		02/01/23 12:19	Field		BEB0031
<b>Nitrate Nitrogen as NO3N</b>	<b>26.5</b>	mg/L	0.1	1	10	02/02/23 17:16	EPA 300.0		BEB0019
<b>pH</b>	<b>7.7</b>	units	1.0	1		02/03/23 11:55	SM 4500-H+	H	BEB0062
<b>Temperature</b>	<b>25.0</b>	°C	0.0	1		02/03/23 11:55	SM 2510 B		BEB0062

Roxey J Avila  
740 S. Kazarian St.  
Tulare, CA 93274

Account# 00-0024349  
Account Manager: Ben Nydam  
Submitted By: Roxey  
Ranch: 4 Star Dairy #3

Received: 02/02/2023 7:15  
Reported: 02/03/2023 14:37

### Quality Control

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Batch: BEB0019</b>									
<b>Blank (BEB0019-BLK1)</b>				Prepared & Analyzed: 2/2/2023					
Nitrate Nitrogen as NO3N	ND	0.1	mg/L						
<b>Blank (BEB0019-BLK2)</b>				Prepared & Analyzed: 2/2/2023					
Nitrate Nitrogen as NO3N	ND	0.1	mg/L						
<b>Blank (BEB0019-BLK3)</b>				Prepared & Analyzed: 2/2/2023					
Nitrate Nitrogen as NO3N	ND	0.1	mg/L						
<b>LCS (BEB0019-BS1)</b>				Prepared & Analyzed: 2/2/2023					
Nitrate Nitrogen as NO3N	4.9	0.1	mg/L	5.000		97.8	90-110		
<b>LCS (BEB0019-BS2)</b>				Prepared & Analyzed: 2/3/2023					
Nitrate Nitrogen as NO3N	4.9	0.1	mg/L	5.000		97.6	90-110		
<b>Duplicate (BEB0019-DUP1)</b>				<b>Source: 23B0248-01</b>		Prepared & Analyzed: 2/2/2023			
Nitrate Nitrogen as NO3N	0.2	0.1	mg/L		0.2			1.81	10
<b>Duplicate (BEB0019-DUP2)</b>				<b>Source: 23B0251-04</b>		Prepared & Analyzed: 2/3/2023			
Nitrate Nitrogen as NO3N	35.2	0.1	mg/L		35.4			0.465	10
<b>Matrix Spike (BEB0019-MS1)</b>				<b>Source: 23B0248-01</b>		Prepared & Analyzed: 2/2/2023			
Nitrate Nitrogen as NO3N	4.5	0.1	mg/L	5.000	0.2	85.2	90-110		
<b>Matrix Spike (BEB0019-MS2)</b>				<b>Source: 23B0251-04</b>		Prepared & Analyzed: 2/3/2023			
Nitrate Nitrogen as NO3N	39.5	0.1	mg/L	5.000	35.4	83.5	90-110		
<b>Reference (BEB0019-SRM1)</b>				Prepared & Analyzed: 2/2/2023					
Nitrate Nitrogen as NO3N	10.0		mg/L	10.00		100	90-110		
<b>Reference (BEB0019-SRM2)</b>				Prepared & Analyzed: 2/2/2023					
Nitrate Nitrogen as NO3N	10.0		mg/L	10.00		100	90-110		
<b>Reference (BEB0019-SRM3)</b>				Prepared & Analyzed: 2/3/2023					
Nitrate Nitrogen as NO3N	10.1		mg/L	10.00		101	90-110		

The results in this report apply to the samples as received and were analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. All results listed in this report are for the exclusive use of the submitting party. Dellavalle Laboratory, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Roxey J Avila  
740 S. Kazarian St.  
Tulare, CA 93274

Account# 00-0024349  
Account Manager: Ben Nydam  
Submitted By: Roxey  
Ranch: 4 Star Dairy #3

Received: 02/02/2023 7:15  
Reported: 02/03/2023 14:37

### Quality Control (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Batch: BEB0062</b>									
<b>Blank (BEB0062-BLK1)</b>				Prepared & Analyzed: 2/3/2023					
Electrical Conductivity	ND	0.01	mmhos/cm						
pH	5.6	1.0	units						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
Temperature	25.0	0.0	°C						
<b>Blank (BEB0062-BLK3)</b>									
				Prepared & Analyzed: 2/3/2023					
Electrical Conductivity	ND	0.01	mmhos/cm						
pH	7.4	1.0	units						
Temperature	25.0	0.0	°C						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
<b>Duplicate (BEB0062-DUP2)</b>				<b>Source: 23B0251-04</b>		Prepared & Analyzed: 2/3/2023			
Electrical Conductivity	0.80	0.01	mmhos/cm		0.81			0.745	10
pH	7.8	1.0	units		7.9			1.28	10
Electrical Conductivity umhos	802	10.0	umhos/cm		808			0.745	10
<b>Reference (BEB0062-SRM1)</b>				Prepared & Analyzed: 2/3/2023					
Electrical Conductivity	560		umhos/cm	538.0		104	90-110		
<b>Reference (BEB0062-SRM2)</b>				Prepared & Analyzed: 2/3/2023					
pH	7.7		units	7.620		101	68766-101.3:		
<b>Reference (BEB0062-SRM3)</b>				Prepared & Analyzed: 2/3/2023					
Electrical Conductivity	1040		umhos/cm	1000		104	90-110		
Electrical Conductivity umhos	1040		umhos/cm	1000		104	90-110		
<b>Reference (BEB0062-SRM5)</b>				Prepared & Analyzed: 2/3/2023					
Electrical Conductivity	1050		umhos/cm	1000		105	90-110		
Electrical Conductivity umhos	1050		umhos/cm	1000		105	90-110		
<b>Reference (BEB0062-SRM6)</b>				Prepared & Analyzed: 2/3/2023					
pH	4.0		units	4.000		101	97.5-102.5		
<b>Reference (BEB0062-SRM8)</b>				Prepared & Analyzed: 2/3/2023					
pH	4.0		units	4.000		101	97.5-102.5		

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23B0250

## WATER WORK REQUEST

Bill To:	Acct No. 24349	Cons. 8
----------	-------------------	------------

---

Purchase Order No.	Results Needed By
--------------------	-------------------

Client **Roxey J Avila**  
Address **740 S. Kazarian Street**  
City, State, Zip **Tulare, CA 93274**  
Phone **(559) 786-4683** Fax \_\_\_\_\_  
Cell/Email **goroxey@yahoo.com**

Copy to \_\_\_\_\_

Requested by RoxeyRanch **4 STAR DAIRY #3**

Date sampled 2-1-23

Sampled by Justin

☒ QA/QC Document    ☒ Copy of Chain    ☐ RWQCB

## DESCRIPTION OF SAMPLES

1. <u>D-13</u>	Sampled From:
2.	Sampled From:
3.	Sampled From:
4.	Sampled From:
5.	Sampled From:
6.	Sampled From:
7.	Sampled From:
8.	Sampled From:
9.	Sampled From:
10.	Sampled From:

**DELLAVALLE LABORATORY, INC.**

1910 W. McKinley Avenue, Suite 110 • Fresno, CA 93728  
www.dellavallelab.com 559 233-6129 • 800 228-9896 • Fax 559 268-8174

No. of Samples 1 No. Bottles 1  
**Water Type:** ☒ Drinking ☐ Wastewater  
☐ Ag Water ☐ Ground Water ☐ Mon. Well  
☐ Supply Water ☐ Other

**Analysis and Bottles Required:** *(Please Indicate Analysis)*

(X) DWW1: (EC, pH,  $\text{NO}_3\text{-N}$ ,  $\text{NH}_4\text{-N}$  Field Test\*)  
(1) 1 L plastic, unpreserved (white)

( ) DWW2: (DWW1 Plus  $\text{SO}_4$ ,  $\text{CO}_3$ ,  $\text{HCO}_3$ , Cl, Ca, Mg, Na, TDS)  
(1) 1 L plastic, unpreserved (white)

( ) DCW1: (EC,  $\text{NO}_3\text{-N}$ , TDS)  
(1) 1 L plastic, unpreserved (white)




( ) DPW1: (EC, pH,  $\text{NO}_3\text{-N}$ ,  $\text{NH}_4\text{-N}$ , TKN, TDS, TP, TK )  
(1) 1 L plastic, unpreserved (white)

( ) DPW2: (DPW1 Plus Ca, Mg, Na,  $\text{HCO}_3$ ,  $\text{CO}_3$ ,  $\text{SO}_4$ , Cl)  
(1) 1 L plastic, unpreserved (white)

( ) Other

[illegible]

## CHAIN OF CUSTODY

CHAIN OF CUSTODY				
Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First				02/01/23 2:18pm
Second		DLI	02/01/23 2:18pm	
Third				
Fourth		ALT	2/2 07:15	

I guarantee that as the client, or on behalf of the client named, I have the authority to contract the above requested services. Should it be found that I do not have such authority, I agree to be personally liable for all costs and, if there should be action against me for this breach, reasonable attorneys' fees. It is understood that payment is expected to be cash with samples unless terms have been previously arranged. Terms are net 30 days; overdue accounts will be charged a dated damage fee of 2% per month (annually 24 %) or \$5.00 per month whichever is greater.

If payment is not made when due and a legitimate dispute exists concerning the product or services of Dellaville Laboratory, Inc., it will be submitted to mediation under the Rules and Procedures of Creative Alternative to Litigation, Inc. (cal). If the dispute is not resolved in mediation, then the dispute will be submitted to binding arbitration through cal under its Rules and Procedures. The parties will equally bear the costs of mediation/arbitration. If, however, the mediator declares that no legitimate dispute exists, then debtor will pay all mediation and arbitration costs, and in the event of arbitration, reasonable attorneys' fees of Dellaville Laboratory.

**Invoicing Information:**

Sampling Hrs	Miles	Consulting
--------------	-------	------------

Amt Paid	Rec By	Check No.
----------	--------	-----------

### Shipping

**S** **In**

	\$	Out
1	100	100
2	100	100
3	100	100
4	100	100
5	100	100
6	100	100
7	100	100
8	100	100
9	100	100
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95	100	100
96	100	100
97	100	100
98	100	100
99	100	100
100	100	100

Date \_\_\_\_\_

Signature \_\_\_\_\_

Sample received in cooler with ice?

☐ Yes      ☐ No

mg;update 2022



02/02/23 07:15



23B0250

<b>Shipping Information:</b> Shipped In <input type="checkbox"/> Picked-up <input checked="" type="checkbox"/> In <input checked="" type="checkbox"/> DLI Sampler <input type="checkbox"/> Other <input type="checkbox"/>											
<input type="checkbox"/> Samples refrigerated before pick up					<input type="checkbox"/> Picked up samples placed in Ice chest						
<b>Container:</b> Ice Chest <input type="checkbox"/> Box <input type="checkbox"/> None <input checked="" type="checkbox"/>					<b>Refrigerant:</b> Wet Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> None <input checked="" type="checkbox"/>						
<b>Samples Preserved with HNO<sub>3</sub> or H<sub>2</sub>SO<sub>4</sub> were:</b> <input type="checkbox"/> Received Preserved <input type="checkbox"/> Preserved Upon Receipt at Laboratory											
<b>Type of Container(s) Received</b>		<b>Sample Number</b>									
		1	2	3	4	5	6	7	8	9	10
<b>Sample Containers for Internal (DLI) Use</b> <i>(Containers that go into the Lab)</i>											
Plastics	100 mL sterile plastic Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green)										
	250 mL unpreserved (White) Plastic										
	250 mL HNO <sub>3</sub> (Red) Plastic										
	* pH Value										
	250 mL H <sub>2</sub> SO <sub>4</sub> (Yellow) Plastic										
	* pH Value										
	500 mL unpreserved (White) Plastic										
Special	1 L unpreserved (White) Plastic										
	1 L unpreserved (BOD) (Purple) Plastic										
	500mL unpreserved (White) Glass										
	PO4-P Kit										
<b>Sample Containers for Subcontracted ("Send Out") Analyses</b> <i>(Containers that go in the Subcontract ("Send Out") Refrigerator)</i>											
Plastics	100 mL sterile plastic Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green)										
	250 mL unpreserved (White) Plastic										
	250 mL HNO <sub>3</sub> (Red) Plastic										
	250 mL H <sub>2</sub> SO <sub>4</sub> (Yellow) Plastic										
	500 mL HNO <sub>3</sub> (Red)										
	1 L unpreserved (White) Plastic										
	1 L unpreserved (BOD) (Purple) Plastic										
VOA Vials	1 L HNO <sub>3</sub> (Red)										
	40 mL VOA, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> + MCAA (EPA531)										
	40 mL VOA, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (EPA547)										
	40mL AG VOA unpreserved (White) (Set of 3)										
	40 mL AG VOA, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green) (Set of 3)										
	40mL VOA, H <sub>3</sub> PO <sub>4</sub> (Set of 3)										
	40 mL VOA, HCl (Blue) (Set of 3)										
Glass	40 mL VOA, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green) (Set of 3)										
	250 mL AG unpreserved (White)										
	250 mL AG H <sub>2</sub> SO <sub>4</sub> (Yellow)										
	250 mL AG Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green)										
	250 mL AG Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> + MCAA										
	500 mL glass unpreserved (White)										
	500 mL AG HCl (Blue)										
	1 L AG unpreserved (White)										
	1 L AG H <sub>2</sub> SO <sub>4</sub> (Yellow)										
	1 L AG Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green)										
Special	1 L AG HCl (Blue)										
	Cr <sup>6+</sup> - 50mL Plastic w/Borate/HCO <sub>3</sub> /CO <sub>3</sub>										
	Cyanide - 500 mL NaOH										
	Asbestos - 1L P wrapped in foil (Set of 2)										
	Sulfide - 1 L AG or P NaOH + ZnAc										
	Chlorite/Bromate - 250 mL AG with EDA										
	HAA5 - 250mL AG Ammonium Chlorite										
	DO KIT										
<b>Other:</b>											
<b>Other:</b>											



Roxey J Avila  
740 S. Kazarian St.  
Tulare, CA 93274

Account# 00-0024349  
Account Manager: Ben Nydam  
Submitted By: Roxey  
Ranch: 4 Star Dairy #3

Received: 05/09/2023 7:50  
Reported: 05/30/2023 12:33

## Samples in this Report

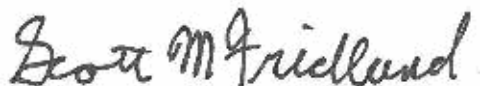
Lab ID	Sample	Matrix	Sampled By	Crop	Date Sampled
23E0710-01	Canal Lift 11	Ag Water	Roxey		05/08/2023 8:45

Default Cooler      Temperature on Receipt °C: 9.3

Custody Seals  
Containers Intact  
COC/Labels Agree

## Notes and Definitions

Item	Definition
H	Hold Time Exceeded
MCL	Drinking Water Maximum Contaminant Level
ND	Analyte NOT DETECTED at or above the reporting limit.
NES	Not Enough Sample
*	Not Taken
RPD	Relative Percent Difference
%REC	Percent Recovery
Source	Sample that was matrix spiked or duplicated.



Laboratory Director/Technical Manager

ELAP Certification #1595  
A2LA Certification #6440.02



Roxey J Avila  
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Tulare, CA 93274

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Account Manager: Ben Nydam  
Submitted By: Roxey  
Ranch: 4 Star Dairy #3

Received: 05/09/2023 7:50  
Reported: 05/30/2023 12:33

### Sample Results

**Sample: Canal Lift 11**  
**23E0710-01 (Water)**

Sampled: 5/8/2023 8:45

Sampled By: Roxey

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	0.07	mmhos/cm	0.01	1		05/11/23 13:27	SM 2510 B		BEE0294
Electrical Conductivity umhos	67.4	umhos/cm	10.0	1		05/11/23 13:27	SM 2510 B		BEE0294
Nitrate Nitrogen as NO3N	0.2	mg/L	0.1	1	10	05/09/23 20:29	EPA 300.0		BEE0285
pH	7.6	units	1.0	1		05/11/23 13:27	SM 4500-H+	H	BEE0294
Total Filterable Solids (TDS)	54.0	mg/L	10.0	1		05/26/23 14:01	SM 2540 C		BEE0919
Temperature	25.0	°C	0.0	1		05/11/23 13:27	SM 2510 B		BEE0294

Roxey J Avila  
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Tulare, CA 93274

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Ranch: 4 Star Dairy #3

Received: 05/09/2023 7:50  
Reported: 05/30/2023 12:33

### Quality Control

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Batch: BEE0285</b>									
<b>Blank (BEE0285-BLK1)</b>				Prepared & Analyzed: 5/9/2023					
Nitrate Nitrogen as NO3N	ND	0.1	mg/L						
<b>Blank (BEE0285-BLK2)</b>				Prepared & Analyzed: 5/9/2023					
Nitrate Nitrogen as NO3N	ND	0.1	mg/L						
<b>LCS (BEE0285-BS1)</b>				Prepared & Analyzed: 5/9/2023					
Nitrate Nitrogen as NO3N	5.1	0.1	mg/L	5.000		103	90-110		
<b>Duplicate (BEE0285-DUP1)</b>				Prepared & Analyzed: 5/9/2023					
Nitrate Nitrogen as NO3N	0.3	0.1	mg/L		0.3			0.317	10
<b>Matrix Spike (BEE0285-MS1)</b>				Prepared & Analyzed: 5/9/2023					
Nitrate Nitrogen as NO3N	5.6	0.1	mg/L	5.000	0.3	105	90-110		
<b>Reference (BEE0285-SRM1)</b>				Prepared & Analyzed: 5/9/2023					
Nitrate Nitrogen as NO3N	10.4		mg/L	10.00		104	90-110		
<b>Reference (BEE0285-SRM2)</b>				Prepared & Analyzed: 5/9/2023					
Nitrate Nitrogen as NO3N	10.4		mg/L	10.00		104	90-110		

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Roxey J Avila  
740 S. Kazarian St.  
Tulare, CA 93274

Account# 00-0024349  
Account Manager: Ben Nydam  
Submitted By: Roxey  
Ranch: 4 Star Dairy #3

Received: 05/09/2023 7:50  
Reported: 05/30/2023 12:33

### Quality Control (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Batch: BEE0294</b>									
<b>Blank (BEE0294-BLK1)</b>				Prepared & Analyzed: 5/11/2023					
pH	5.5	1.0	units						
Electrical Conductivity	ND	0.01	mmhos/cm						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
Temperature	25.0	0.0	°C						
<b>Blank (BEE0294-BLK2)</b>				Prepared & Analyzed: 5/11/2023					
pH	5.6	1.0	units						
Electrical Conductivity	ND	0.01	mmhos/cm						
Temperature	25.0	0.0	°C						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
<b>Blank (BEE0294-BLK3)</b>				Prepared & Analyzed: 5/11/2023					
Electrical Conductivity	ND	0.01	mmhos/cm						
pH	5.7	1.0	units						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
Temperature	25.0	0.0	°C						
<b>Duplicate (BEE0294-DUP1)</b>				<b>Source: 23E0030-01</b>		Prepared & Analyzed: 5/11/2023			
Electrical Conductivity	0.54	0.01	mmhos/cm		0.55			2.04	10
pH	7.4	1.0	units		7.4			0.404	10
Electrical Conductivity umhos	540	10.0	umhos/cm		551			2.04	10
<b>Duplicate (BEE0294-DUP2)</b>				<b>Source: 23E0703-01</b>		Prepared & Analyzed: 5/11/2023			
pH	7.6	1.0	units		7.6			0.393	10
Electrical Conductivity	0.07	0.01	mmhos/cm		0.07			0.447	10
Electrical Conductivity umhos	67.0	10.0	umhos/cm		67.3			0.447	10
<b>Reference (BEE0294-SRM1)</b>				Prepared & Analyzed: 5/11/2023					
Electrical Conductivity	569		umhos/cm	538.0		106	90-110		
<b>Reference (BEE0294-SRM2)</b>				Prepared & Analyzed: 5/11/2023					
pH	7.8		units	7.790		99.9	.7163-101.28		
<b>Reference (BEE0294-SRM3)</b>				Prepared & Analyzed: 5/11/2023					
Electrical Conductivity	1060		umhos/cm	1000		106	90-110		
Electrical Conductivity umhos	1060		umhos/cm	1000		106	90-110		
<b>Reference (BEE0294-SRM4)</b>				Prepared & Analyzed: 5/11/2023					
Electrical Conductivity	1060		umhos/cm	1000		106	90-110		
Electrical Conductivity umhos	1060		umhos/cm	1000		106	90-110		
<b>Reference (BEE0294-SRM5)</b>				Prepared & Analyzed: 5/11/2023					
Electrical Conductivity	1070		umhos/cm	1000		107	90-110		

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Roxey J Avila  
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Account# 00-0024349  
Account Manager: Ben Nydam  
Submitted By: Roxey  
Ranch: 4 Star Dairy #3

Received: 05/09/2023 7:50  
Reported: 05/30/2023 12:33

### Quality Control (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Batch: BEE0294 (Continued)</b>									
<b>Reference (BEE0294-SRM5)</b>									
Electrical Conductivity umhos	1070		umhos/cm	1000		107	90-110		
<b>Reference (BEE0294-SRM6)</b>									
pH	4.0		units	4.000		100	97.5-102.5		
<b>Reference (BEE0294-SRM7)</b>									
pH	4.0		units	4.000		100	97.5-102.5		
<b>Reference (BEE0294-SRM8)</b>									
pH	4.0		units	4.000		99.8	97.5-102.5		

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Roxey J Avila  
740 S. Kazarian St.  
Tulare, CA 93274

Account# 00-0024349  
Account Manager: Ben Nydam  
Submitted By: Roxey  
Ranch: 4 Star Dairy #3

Received: 05/09/2023 7:50  
Reported: 05/30/2023 12:33

### Quality Control (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEE0919									
Blank (BEE0919-BLK1)									
Total Filterable Solids (TDS)	ND	10.0	mg/L	Prepared: 5/24/2023 Analyzed: 5/26/2023					
LCS (BEE0919-BS1)									
Total Filterable Solids (TDS)	23.8	10.0	mg/L	2000		1.19	0-200		
Duplicate (BEE0919-DUP1)									
Total Filterable Solids (TDS)	50.0	10.0	mg/L	Prepared: 5/24/2023 Analyzed: 5/26/2023		50.0		0.00	5
Reference (BEE0919-SRM1)									
Total Filterable Solids (TDS)	330		mg/L	325.0	Prepared: 5/24/2023 Analyzed: 5/26/2023		102	90-110	

The results in this report apply to the samples as received and were analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. All results listed in this report are for the exclusive use of the submitting party. Dellavalle Laboratory, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.



05/09/23 07:50

23E0710

**WATER WORK REQUEST**
 Bill To: Acct No. 24349 Cons. 8

Purchase Order No.

Results Needed By

Client **Roxey J Avila**Address 740 S. Kazarian StreetCity, State, Zip Tulare, CA 93274Phone (559) 786-4683

Fax

Cell/Email goroxey@yahoo.com

Copy to

Requested by RoxeyRanch **4 STAR DAIRY #3**Date sampled 5-8-23Sampled by Roxey
☒ QA/QC Document ☒ Copy of Chain ☐ RWQCB
**DESCRIPTION OF SAMPLES**

1. <u>canal lift 11</u>	Sampled From:
2.	Sampled From:
3.	Sampled From:
4.	Sampled From:
5.	Sampled From:
6.	Sampled From:
7.	Sampled From:
8.	Sampled From:
9.	Sampled From:
10.	Sampled From:

 IR Thermometer SN: 221314362  
 Correction Factor: 0°C  
 Calibration Due: 6/30/2023  
 Location: Hanford Office

 Temperature Upon Receipt  
 Hanford (°C): 3.3  
 Laboratory (°C): 3.3

Date Sampled	Time Sampled	Field NH4-N (mg/L)	Received Temp °C
<u>5-8-23</u>	<u>8:45A</u>	<u>10"</u>	<u>9.3/33</u>

**CHAIN OF CUSTODY**

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First	<u>[Signature]</u>	<u>Hds</u>	<u>5/8/23 2:09am</u>	<u>5/8/23 10:42am</u>
Second	<u>[Signature]</u>	<u>DLI</u>	<u>5/8/23 10:42am</u>	
Third				
Fourth	<u>[Signature]</u>	<u>DLI</u>	<u>5/9 07:50</u>	

I guarantee that as the client, or on behalf of the client named, I have the authority to contract the above requested services. Should it be found that I do not have such authority, I agree to be personally liable for all costs and, if there should be action against me for this breach, reasonable attorneys' fees. It is understood that payment is expected to be cash with samples unless terms have been previously arranged. Terms are net 30 days; overdue accounts will be charged a dated damage fee of 2% per month (annually 24%) or \$5.00 per month whichever is greater.

If payment is not made when due and a legitimate dispute exists concerning the product or services of DellaValle Laboratory, Inc., it will be submitted to mediation under the Rules and Procedures of Creative Alternative to Litigation, Inc. (cal). If the dispute is not resolved in mediation, then the dispute will be submitted to binding arbitration through cal under its Rules and Procedures. The parties will equally bear the costs of mediation/arbitration. If, however, the mediator declares that no legitimate dispute exists, then debtor will pay all mediation and arbitration costs, and in the event of arbitration, reasonable attorneys' fees of DellaValle Laboratory.

Invoicing Information:			Shipping	
Sampling Hrs	Miles	Consulting	\$	In
			\$	Out
Amt Paid	Rec By	Check No.	Date	

Signature

Sample received in cooler with ice?

☐ Yes ☐ No

mg:update 2022





05/09/23 07:50

23E0710

<b>Shipping Information:</b> Shipped In <input type="checkbox"/> Picked-Up <input type="checkbox"/> Walk In <input checked="" type="checkbox"/> DLI Sampler <input type="checkbox"/> Other <input type="checkbox"/>										
<input type="checkbox"/> Samples re Fridgerated before pick up					<input type="checkbox"/> Picked up samples placed in Ice chest					
<b>Container:</b> Ice Chest <input checked="" type="checkbox"/> Box <input type="checkbox"/> None <input type="checkbox"/>					<b>Refrigerant:</b> Wet Ice <input checked="" type="checkbox"/> Blue Ice <input type="checkbox"/> None <input type="checkbox"/>					
Samples Preserved with HNO <sub>3</sub> or H <sub>2</sub> SO <sub>4</sub> were:					<input type="checkbox"/> Received Preserved <input type="checkbox"/> Preserved Upon Receipt at Laboratory					
Type of Container(s) Received		Sample Number								
		1	2	3	4	5	6	7	8	9
<b>Sample Containers for Internal (DLI) Use</b> (Containers that go into the Lab)										
Plastics	100 mL sterile plastic Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green)									
	250 mL unpreserved (White) Plastic									
	250 mL HNO <sub>3</sub> (Red) Plastic									
	* pH Value									
	250 mL H <sub>2</sub> SO <sub>4</sub> (Yellow) Plastic									
	* pH Value									
	500 mL unpreserved (White) Plastic									
	1 L unpreserved (White) Plastic									
Special	1 L unpreserved (BOD) (Purple) Plastic									
	500mL unpreserved (White) Glass									
	PO4-P Kit									
	Other:									
<b>Sample Containers for Subcontracted ("Send Out") Analyses</b> (Containers that go in the Subcontract ("Send Out") Refrigerator)										
Plastics	100 mL sterile plastic Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green)									
	250 mL unpreserved (White) Plastic									
	250 mL HNO <sub>3</sub> (Red) Plastic									
	250 mL H <sub>2</sub> SO <sub>4</sub> (Yellow) Plastic									
	500 mL HNO <sub>3</sub> (Red)									
	1 L unpreserved (White) Plastic									
	1 L unpreserved (BOD) (Purple) Plastic									
	1 L HNO <sub>3</sub> (Red)									
VOA Vials	40 mL VOA, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> + MCAA (EPA531)									
	40 mL VOA, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (EPA547)									
	40mL AG VOA unpreserved (White) (Set of 3)									
	40 mL AG VOA, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green) (Set of 3)									
	40mL VOA, H <sub>3</sub> PO <sub>4</sub> (Set of 3)									
	40 mL VOA, HCl (Blue) (Set of 3)									
	40 mL VOA, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green) (Set of 3)									
Glass	250 mL AG unpreserved (White)									
	250 mL AG H <sub>2</sub> SO <sub>4</sub> (Yellow)									
	250 mL AG Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green)									
	250 mL AG Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> + MCAA									
	500 mL glass unpreserved (White)									
	500 mL AG HCl (Blue)									
	1 L AG unpreserved (White)									
	1 L AG H <sub>2</sub> SO <sub>4</sub> (Yellow)									
	1 L AG Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green)									
	1 L AG HCl (Blue)									
Special	Cr <sup>6+</sup> - 50mL Plastic w/Borate/HCO <sub>3</sub> /CO <sub>3</sub>									
	Cyanide - 500 mL NaOH									
	Asbestos - 1L P wrapped in foil (Set of 2)									
	Sulfide - 1 L AG or P NaOH + ZnAc									
	Chlorite/Bromate - 250 mL AG with EDA									
	HAA5 - 250mL AG Ammonium Chlorite									
	DO KIT									
	Other:									
Other:										