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: Steve Pereira Dairy

Physical address of dairy:

5780 Avenue 296	Visalia	Tulare	93291
Number and Street	City	County	Zip Code

Street and nearest cross street (if no address):

Date facility was originally placed in operation: 01/01/1936

Regional Water Quality Control Board Basin Plan designation: Tulare Basin

County Assessor Parcel Number(s) for dairy facility:

0073-0130-0026-0000

B. OPERATORS

Pereira, Steve

Operator name: Pereira, Steve

Telephone no.: Landline: ; Cellular: (559) 740-8753

5780 Ave 296	Visalia	CA	93291
Mailing Address Number and Street	City	State	Zip Code

This operator is responsible for paying permit fees.

C. OWNERS

Pereira, Steve

Legal owner name: Pereira, Steve

Telephone no.: Landline: ; Cellular: (559) 740-8753

5780 Ave 296	Visalia	CA	93291
Mailing Address Number and Street	City	State	Zip Code

This owner is responsible for paying permit fees.

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

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	230	40	40	40	40	40
Number under roof	0	0	0	0	0	0
Maximum number	230	40	40	40	40	40
Average number	230	40	40	40	40	40
Avg live weight (lbs)	1,200	1,300	900	600		

Predominant milk cow breed: Holstein

Average milk production: 65 *pounds per cow per day*

B. MANURE GENERATED

Total manure excreted by the herd: 7,372.37 *tons per reporting period*

Total nitrogen from manure: 94,352.79 *lbs per reporting period*

After ammonia losses (30% loss applied): 66,046.95 *lbs per reporting period*

Total phosphorus from manure: 15,271.92 *lbs per reporting period*

Total potassium from manure: 43,291.57 *lbs per reporting period*

Total salt from manure: 117,493.50 *lbs per reporting period*

C. PROCESS WASTEWATER GENERATED

Process wastewater generated: 8,249,000 *gallons*

Total nitrogen generated: 14,706.31 *lbs*

Total phosphorus generated: 3,378.01 *lbs*

Total potassium generated: 42,966.99 *lbs*

Total salt generated: 146,940.10 *lbs*

	7,500,000	*gallons applied*
+	749,000	*gallons exported*
-	0	*gallons imported*
=	8,249,000	*gallons generated*

D. FRESH WATER SOURCES

Source Description	Type
Dairy Domestic	Ground water
House Domestic	Ground water
New Ag Well #1	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

Date	Material type	Quantity	Reporting basis	Moisture (%)	Density (lbs/cu ft)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/23/2023	Corral solids	280.00 *ton*	Dry-weight	5.5		14,300.00	12,100.00	16,200.00		15.00

Date	Material type	Quantity	Kjeldahl-N (mg/L)	Ammonium-N (mg/L)	Ammonia-N (mg/L)	Nitrate-N (mg/L)	P (mg/L)	K (mg/L)	EC (µmhos/cm)	TDS (mg/L)
09/23/2023	Process wastewater	749,000.00 *gal*	210.00	180.00	0.00	0.00	55.00	670.00		1,840

Material type	Total N (lbs)	Total P (lbs)	Total K (lbs)	Total salt (lbs)
Dry manure	7,567.56	6,403.32	8,573.04	79,380.00
Process wastewater	1,312.59	343.77	4,187.77	11,500.75
Total exports for all materials	8,880.15	6,747.09	12,760.81	90,880.75

APPLICATION AREA

A. LIST OF LAND APPLICATION AREAS

Field name	Controlled acres	Cropable acres	Total harvests	Type of waste applied	Parcel number
Field #1 - North	22	22	2	process wastewater	0073-0130-0026-0000
Field #2 - South	19	19	2	process wastewater	0073-0130-0026-0000
Totals for areas that were used for application	41	41	4		
Totals for areas that were not used for application					
Land application area totals	41	41	4		

B. CROPS AND HARVESTS

Field #1 - North

Field name: Field #1 - North

11/15/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 22 Plant date: 11/15/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
04/25/2023	330.00 *ton*	Dry-weight		64.9	13,500.00	2,900.00	31,900.00		9.19

	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	450.00
Total actual harvest content	15.00	142.16	30.54	335.91	967.71

06/15/2023: Corn, silage

Crop: Corn, silage Acres planted: 22 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	550.00 *ton*	Dry-weight		70.0	12,800.00	5,600.00	14,400.00		5.70

	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	750.00
Total actual harvest content	25.00	192.00	84.00	216.00	855.00

Field #2 - South

Field #2 - South

Field name: Field #2 - South

11/15/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 19 Plant date: 11/15/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
04/25/2023	285.00 *ton*	Dry-weight		61.0	14,500.00	3,100.00	34,400.00		9.53

	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	450.00
Total actual harvest content	15.00	169.65	36.27	402.48	1,115.01

06/15/2023: Corn, silage

Crop: Corn, silage Acres planted: 19 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	475.00 *ton*	Dry-weight		55.8	11,100.00	2,300.00	15,100.00		5.61

	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	750.00
Total actual harvest content	25.00	245.31	50.83	333.71	1,239.81

NUTRIENT BUDGET

A. LAND APPLICATIONS

Field #1 - North - 11/15/2022: Wheat, silage, soft dough

Field name: Field #1 - North

Crop: Wheat, silage, soft dough — Plant date: 11/15/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
11/16/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Application	Process wastewater	62.59	11.01	154.76	753.89	750,000.00 *gal*
New Ag Well #1	Ground water	32.83	0.00	0.00	580.36	1,500,000.00 *gal*
Application event totals		95.42	11.01	154.76	1,334.25	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
01/06/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
New Ag Well #1	Ground water	32.83	0.00	0.00	580.36	1,500,000.00 *gal*
Application event totals		32.83	0.00	0.00	580.36	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
03/05/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Application	Process wastewater	62.59	11.01	154.76	753.89	750,000.00 *gal*
New Ag Well #1	Ground water	32.83	0.00	0.00	580.36	1,500,000.00 *gal*
Application event totals		95.42	11.01	154.76	1,334.25	

Field #1 - North - 06/15/2023: Corn, silage

Field name: Field #1 - North

Crop: Corn, silage — Plant date: 06/15/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following

Field #1 - North - 06/15/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
05/19/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
New Ag Well #1	Ground water	150.20	0.00	0.00	2,655.13	6,862,500.00 *gal*
Application event totals		150.20	0.00	0.00	2,655.13	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
06/30/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Application	Process wastewater	59.74	15.65	190.61	523.46	750,000.00 *gal*
New Ag Well #1	Ground water	137.89	0.00	0.00	2,437.50	6,300,000.00 *gal*
Application event totals		197.63	15.65	190.61	2,960.96	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/17/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
New Ag Well #1	Ground water	108.34	0.00	0.00	1,915.18	4,950,000.00 *gal*
Application event totals		108.34	0.00	0.00	1,915.18	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/31/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Application	Process wastewater	59.74	15.65	190.61	523.46	750,000.00 *gal*
New Ag Well #1	Ground water	101.44	0.00	0.00	1,793.30	4,635,000.00 *gal*
Application event totals		161.19	15.65	190.61	2,316.76	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/11/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
New Ag Well #1	Ground water	88.64	0.00	0.00	1,566.96	4,050,000.00 *gal*
Application event totals		88.64	0.00	0.00	1,566.96	

Field #1 - North - 06/15/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/28/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Application	Process wastewater	59.74	15.65	190.61	523.46	750,000.00 *gal*
New Ag Well #1	Ground water	82.73	0.00	0.00	1,462.50	3,780,000.00 *gal*
Application event totals		142.47	15.65	190.61	1,985.96	

Field #2 - South - 11/15/2022: Wheat, silage, soft dough

Field name: Field #2 - South

Crop: Wheat, silage, soft dough

Plant date: 11/15/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
11/16/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Application	Process wastewater	72.47	12.75	179.20	872.93	750,000.00 *gal*
New Ag Well #1	Ground water	38.01	0.00	0.00	671.99	1,500,000.00 *gal*
Application event totals		110.48	12.75	179.20	1,544.92	

01/06/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
New Ag Well #1	Ground water	38.01	0.00	0.00	671.99	1,500,000.00 *gal*
Application event totals		38.01	0.00	0.00	671.99	

03/05/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Application	Process wastewater	72.47	12.75	179.20	872.93	750,000.00 *gal*
New Ag Well #1	Ground water	38.01	0.00	0.00	671.99	1,500,000.00 *gal*
Application event totals		110.48	12.75	179.20	1,544.92	

Field #2 - South - 06/15/2023: Corn, silage

Field #2 - South - 06/15/2023: Corn, silage

Field name: Field #2 - South

Crop: Corn, silage

Plant date: 06/15/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
05/25/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
New Ag Well #1	Ground water	135.14	0.00	0.00	2,388.93	5,332,500.00 *gal*
Application event totals		135.14	0.00	0.00	2,388.93	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/07/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Application	Process wastewater	69.18	18.12	220.70	606.11	750,000.00 *gal*
New Ag Well #1	Ground water	96.93	0.00	0.00	1,713.58	3,825,000.00 *gal*
Application event totals		166.11	18.12	220.70	2,319.69	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
07/21/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
New Ag Well #1	Ground water	70.14	0.00	0.00	1,239.83	2,767,500.00 *gal*
Application event totals		70.14	0.00	0.00	1,239.83	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/04/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Application	Process wastewater	69.18	18.12	220.70	606.11	750,000.00 *gal*
New Ag Well #1	Ground water	87.81	0.00	0.00	1,552.30	3,465,000.00 *gal*
Application event totals		156.99	18.12	220.70	2,158.41	

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/15/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
New Ag Well #1	Ground water	54.74	0.00	0.00	967.67	2,160,000.00 *gal*
Application event totals		54.74	0.00	0.00	967.67	

Field #2 - South - 06/15/2023: Corn, silage

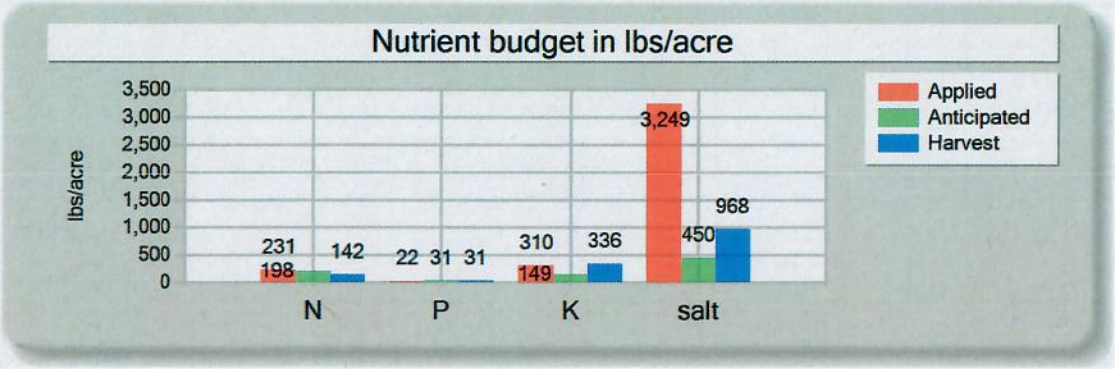
Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/31/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Application	Process wastewater	69.18	18.12	220.70	606.11	750,000.00 *gal*
New Ag Well #1	Ground water	68.42	0.00	0.00	1,209.59	2,700,000.00 *gal*
Application event totals		137.60	18.12	220.70	1,815.70	

B. NUTRIENT BUDGET

Field #1 - North - 11/15/2022: Wheat, silage, soft dough

Field name: Field #1 - North Crop: Wheat, silage, soft dough Plant date: 11/15/2022



	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	0.00	0.00	0.00	0.00
Process wastewater	125.18	22.02	309.52	1,507.79
Fresh water	98.49	0.00	0.00	1,741.07
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	230.66	22.02	309.52	3,248.86
Anticipated crop nutrient removal	198.00	30.60	149.40	450.00
Actual crop nutrient removal	142.16	30.54	335.91	967.71
Nutrient balance	88.51	-8.52	-26.38	2,281.15
Applied to removed ratio	1.62	0.72	0.92	3.36

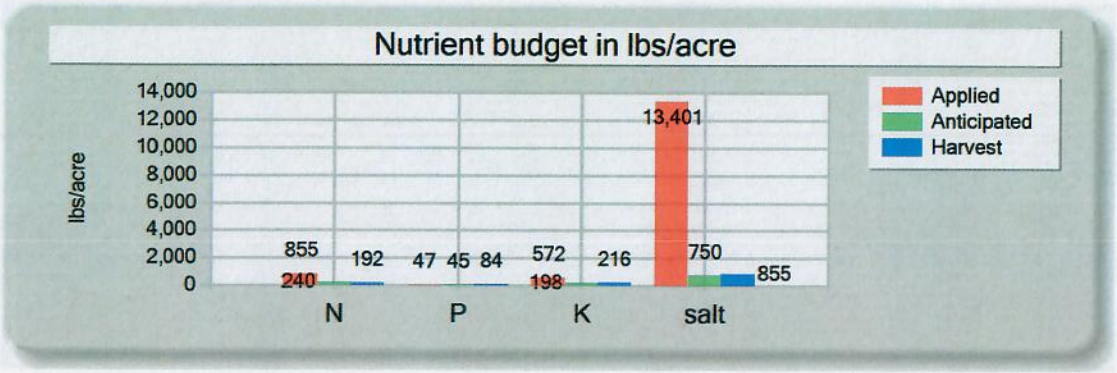
Fresh water applied	
4,500,000.00	*gallons*
165.72	*acre-inches*
7.53	*inches/acre*

Process wastewater applied	
1,500,000.00	*gallons*
55.24	*acre-inches*
2.51	*inches/acre*

Total harvests for the crop	
1	*harvests*

Field #1 - North - 06/15/2023: Corn, silage

Field name: Field #1 - North Crop: Corn, silage Plant date: 06/15/2023



	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	0.00	0.00	0.00	0.00
Process wastewater	179.23	46.94	571.82	1,570.38
Fresh water	669.24	0.00	0.00	11,830.57
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	855.47	46.94	571.82	13,400.95
Anticipated crop nutrient removal	240.00	45.00	198.00	750.00
Actual crop nutrient removal	192.00	84.00	216.00	855.00
Nutrient balance	663.47	-37.06	355.82	12,545.95
Applied to removed ratio	4.46	0.56	2.65	15.67

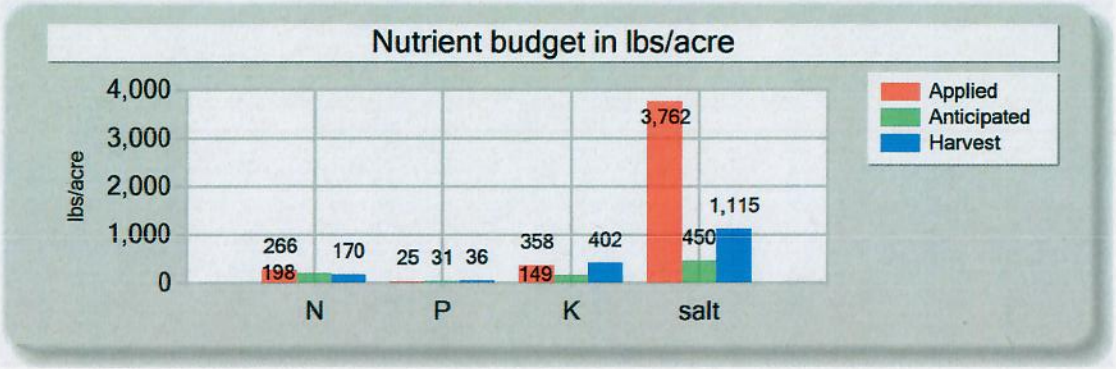
Fresh water applied
30,577,500.00 *gallons*
1,126.07 *acre-inches*
51.18 *inches/acre*

Process wastewater applied
2,250,000.00 *gallons*
82.86 *acre-inches*
3.77 *inches/acre*

Total harvests for the crop
1 *harvests*

Field #2 - South - 11/15/2022: Wheat, silage, soft dough

Field name: Field #2 - South | Crop: Wheat, silage, soft dough | Plant date: 11/15/2022



	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	0.00	0.00	0.00	0.00
Process wastewater	144.94	25.50	358.40	1,745.86
Fresh water	114.04	0.00	0.00	2,015.98
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	265.98	25.50	358.40	3,761.84
Anticipated crop nutrient removal	198.00	30.60	149.40	450.00
Actual crop nutrient removal	169.65	36.27	402.48	1,115.01
Nutrient balance	96.33	-10.77	-44.08	2,646.83
Applied to removed ratio	1.57	0.70	0.89	3.37

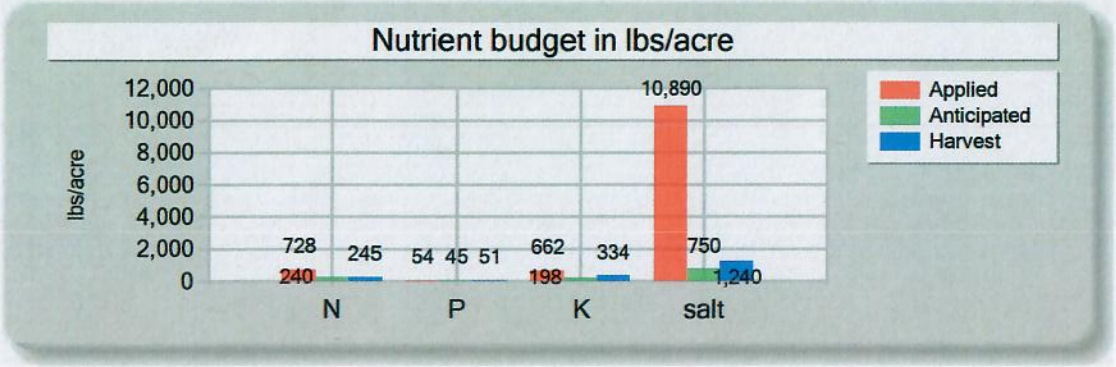
Fresh water applied
4,500,000.00 *gallons*
165.72 *acre-inches*
8.72 *inches/acre*

Process wastewater applied
1,500,000.00 *gallons*
55.24 *acre-inches*
2.91 *inches/acre*

Total harvests for the crop
1 *harvests*

Field #2 - South - 06/15/2023: Corn, silage

Field name: Field #2 - South Crop: Corn, silage Plant date: 06/15/2023



	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	0.00	0.00	0.00	0.00
Process wastewater	207.53	54.35	662.11	1,818.33
Fresh water	513.18	0.00	0.00	9,071.89
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	727.71	54.35	662.11	10,890.23
Anticipated crop nutrient removal	240.00	45.00	198.00	750.00
Actual crop nutrient removal	245.31	50.83	333.71	1,239.81
Nutrient balance	482.40	3.52	328.40	9,650.42
Applied to removed ratio	2.97	1.07	1.98	8.78

Fresh water applied
20,250,000.00 *gallons*
745.74 *acre-inches*
39.25 *inches/acre*

Process wastewater applied
2,250,000.00 *gallons*
82.86 *acre-inches*
4.36 *inches/acre*

Total harvests for the crop
1 *harvests*

NUTRIENT ANALYSES

A. MANURE ANALYSES

Pereira Corral Manure

Sample and source description: Pereira Corral Manure

Sample date: 10/12/2023 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 5.5 %

	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	14,300.00	12,100.00	16,200.00							
DL	0.05	0.01	0.01							

B. PROCESS WASTEWATER ANALYSES

Pereira Wastewater 3-25-23

Sample and source description: Pereira Wastewater 3-25-23

Sample date: 03/25/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 7.20

	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	210.00	180.00		0.00	55.00	670.00								4,870.00	1,840
DL	10.00	8.00		0.40	1.00	10.00								1.00	20

Pereira Wastewater 10-12-23

Sample and source description: Pereira Wastewater 10-12-23

Sample date: 10/12/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 8.00

	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	220.00	180.00		0.00	38.70	544.00								4,650.00	2,650
DL	20.00	8.00		0.40	0.20	2.00								1.00	20

C. FRESH WATER ANALYSES

Dairy Domestic

Dairy Domestic

Dairy Domestic

Sample description: Dairy Domestic

Sample date: 05/18/2023 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		0.00	40.30								865.00	620
DL		0.20	0.40								1.00	20

House Domestic

House Domestic

Sample description: House Domestic

Sample date: 05/18/2023 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		0.00	55.10								1,560.00	1,180
DL		0.20	2.00								1.00	20

New Ag Well #1

Pereira Ag Well

Sample description: Pereira Ag Well

Sample date: 10/11/2023 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		0.00	57.70								1,200.00	1,020
DL		0.20	2.00								1.00	20

D. SOIL ANALYSES

No soil analyses entered.

E. PLANT TISSUE ANALYSES

Field #1 - North - 06/15/2023: Corn, silage

Corn Silage - North

Sample and source description: Corn Silage - North

Sample date: 10/06/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 70.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	12,800.00	5,600.00	14,400.00		
DL	0.05	0.01	0.01		

Corn Silage - North 2

Sample and source description: Corn Silage - North 2

Sample date: 11/15/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 63.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	12,300.00	2,700.00	14,600.00		5.70
DL	0.05	0.01	0.01		0.10

Field #2 - South - 06/15/2023: Corn, silage

Corn Silage - South 2

Sample and source description: Corn Silage - South 2

Sample date: 11/15/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 55.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	11,100.00	2,300.00	15,100.00		5.61
DL	0.05	0.01	0.01		0.10

F. SUBSURFACE (TILE) DRAINAGE ANALYSES

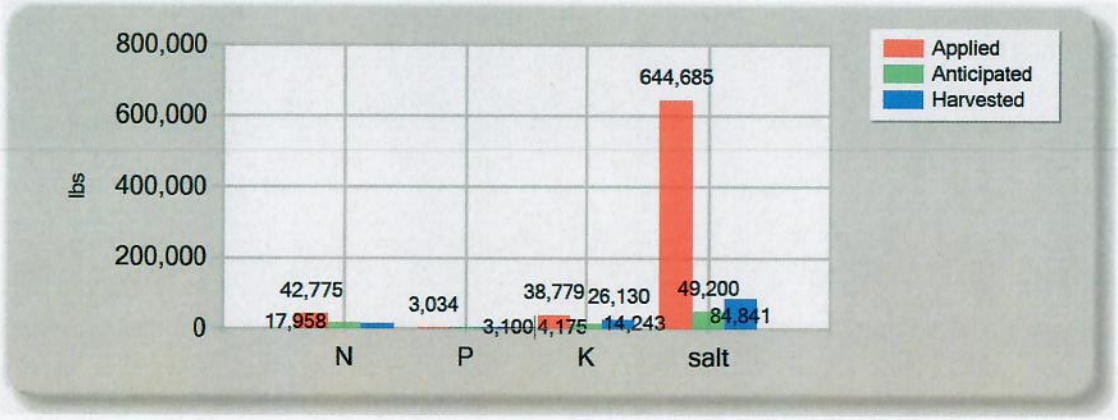
No subsurface (tile) drainage analyses entered.

NUTRIENT APPLICATIONS, POTENTIAL REMOVAL, AND BALANCE

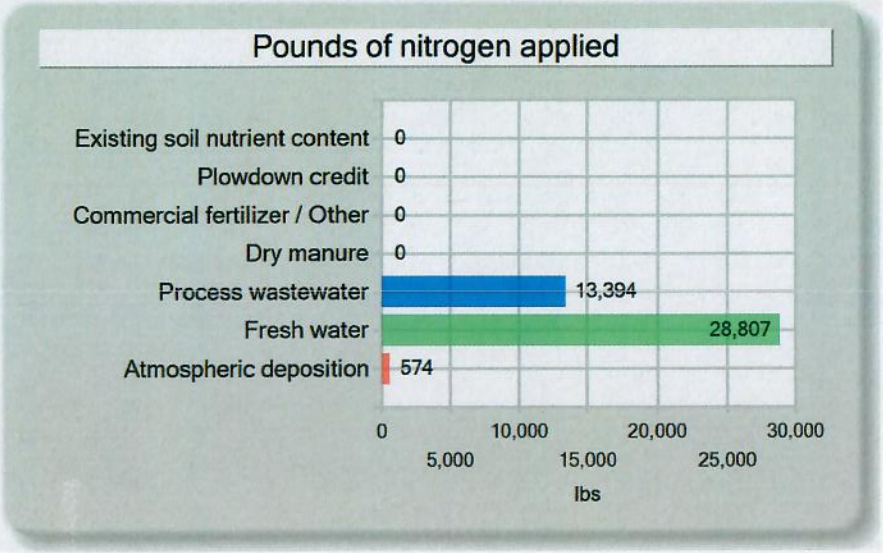
A. SUMMARY OF NUTRIENT APPLICATIONS, POTENTIAL REMOVAL, AND BALANCE

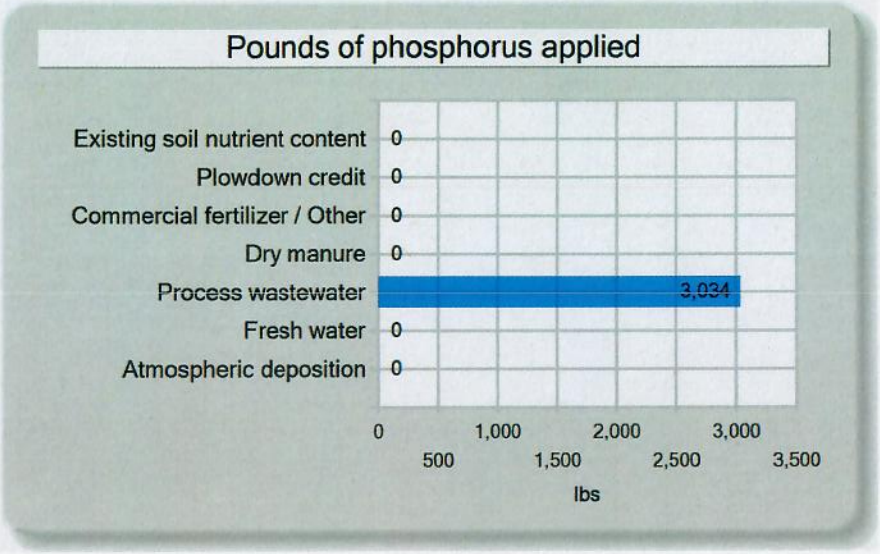
	Total N (lbs)	Total P (lbs)	Total K (lbs)	Total salt (lbs)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	13,393.73	3,034.24	38,779.22	135,439.35
Fresh water	28,807.33	0.00	0.00	509,245.70
Atmospheric deposition	574.00	0.00	0.00	0.00
Total nutrients applied	42,775.06	3,034.24	38,779.22	644,685.05
Anticipated crop nutrient removal	17,958.00	3,099.60	14,243.40	49,200.00
Actual crop nutrient removal	15,235.65	4,174.71	26,129.56	84,841.13
Nutrient balance	27,539.41	-1,140.47	12,649.65	559,843.91
Applied to removed ratio	2.81	0.73	1.48	7.60

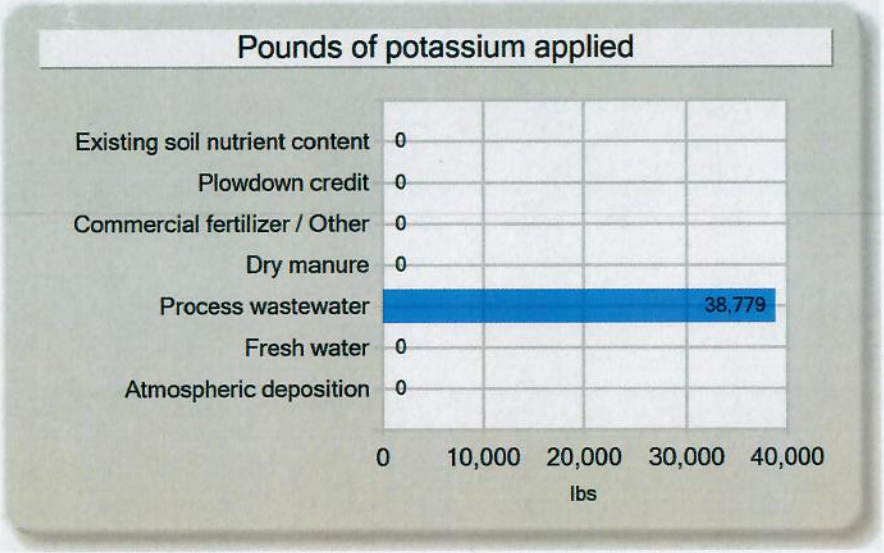
B. POUNDS OF NUTRIENT APPLIED VS. CROP REMOVAL

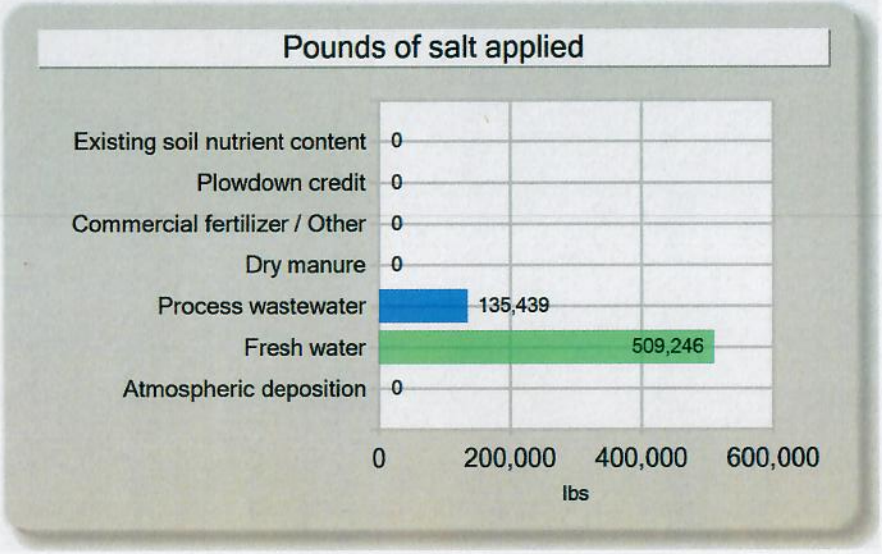


C. POUNDS OF NUTRIENT APPLIED BY MATERIAL TYPE









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?	No
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

ADDITIONAL NOTES

A. NOTES

No notes entered for this annual report.

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
Steve Pereira	SAME AS OWNER
PRINT OR TYPE NAME	PRINT OR TYPE NAME
6-18-24	6-18-24
DATE	DATE

Manure / Process Wastewater Tracking Manifest
For
Existing Milk Cow Dairies

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

INSTRUCTIONS

1) Complete one manifest for each hauling event, for each destination. A hauling event may last for several days, as long as the manure is being hauled to the same destination.
2) If there are multiple destinations, complete a separate form for each destination.
3) The operator must obtain the signature of the hauler upon completion of each manure/process wastewater hauling event.
4) The operator shall submit copies of manure/process wastewater tracking manifest(s) with the Annual Monitoring Report for Existing Milk Cow Dairies.

OPERATOR INFORMATION

Name of Operator: Steve Pereira

Name of Dairy Facility: Steve Pereira Dairy

Facility Address:

5780 Avenue 296	Visalia	Tulare	93291
Number and Street	City	County	Zip Code

Contact Person Name and Phone Number: Steve Pereira (559) 740-8753
Name Phone Number

MANURE HAULER INFORMATION

Name of Hauling Company/Person: Keith Bettencourt Farms

Address of Hauling Company/Person:

13086 Avenue 336	Visalia	CA	93292
Number and Street	City	State	Zip Code

Contact Person: Keith Bettencourt (559) 733-0321
Name Phone Number

DESTINATION INFORMATION

Composting Facility / Broker / Farmer / Other (identify): Farmer

Contact information of Composting Facility, Broker, Farmer, or Other (as identified above):

Joe Avila Dairy (559) 740-8753
Name Phone Number

30297 Road 56	Visalia	CA	93291
Address	City	State	Zip Code

Destination Address or Assessor's Parcel Number:

30297 Road 56	Visalia	93291
Address	City	Zip Code
		Tulare
Street and nearest cross street (if no address)		County

0001-0001-0001-0000 Tulare
Assessor's Parcel Number Assessor's Parcel Number County

Last date hauled: 09/23/2023

Manure / Process Wastewater Tracking Manifest
For
Existing Milk Cow Dairies

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

MANURE AMOUNT HAULED

Enter the amount of manure hauled in tons, manure solids content, and the method used to calculate the amount:

Manure: 280.00 tons

Manure Solids Content: 94.5 %

Method used to determine amount of manure:

Total loads billed by the contractor (Hauler).

CERTIFICATION

I declare under penalty of law that I 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 a fine and imprisonment for knowing violations.

Operator Signature — Date: 6-18-24

Hauler Signature — Date: 6-18-24

Manure / Process Wastewater Tracking Manifest
For
Existing Milk Cow Dairies

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

INSTRUCTIONS

1) Complete one manifest for each hauling event, for each destination. A hauling event may last for several days, as long as the manure is being hauled to the same destination.
2) If there are multiple destinations, complete a separate form for each destination.
3) The operator must obtain the signature of the hauler upon completion of each manure/process wastewater hauling event.
4) The operator shall submit copies of manure/process wastewater tracking manifest(s) with the Annual Monitoring Report for Existing Milk Cow Dairies.

OPERATOR INFORMATION

Name of Operator: Steve Pereira

Name of Dairy Facility: Steve Pereira Dairy

Facility Address:

5780 Avenue 296	Visalia	Tulare	93291
Number and Street	City	County	Zip Code

Contact Person Name and Phone Number: Steve Pereira (559) 740-8753
Name Phone Number

PROCESS WASTEWATER HAULER INFORMATION

Name of Hauling Company/Person: VanderVis Inc.

Address of Hauling Company/Person:

25948 Road 92	Visalia	CA	93274
Number and Street	City	State	Zip Code

Contact Person: Steve Pereira (559) 740-8753
Name Phone Number

DESTINATION INFORMATION

Composting Facility / Broker / Farmer / Other (identify): Farmer

Contact information of Composting Facility, Broker, Farmer, or Other (as identified above):

Joe Avila Dairy (559) 740-8753
Name Phone Number

30297 Road 56	Visalia	CA	93291
Address	City	State	Zip Code

Destination Address or Assessor's Parcel Number:

30297 Road 56	Visalia	93291
Address	City	Zip Code
		Tulare
Street and nearest cross street (if no address)		County

0001-0001-0001-0000 Tulare
Assessor's Parcel Number Assessor's Parcel Number County

Last date hauled: 09/23/2023

Manure / Process Wastewater Tracking Manifest
For
Existing Milk Cow Dairies

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

PROCESS WASTEWATER AMOUNT HAULED

Enter the amount of process wastewater hauled in gallons and the method used to determine the amount:

Process Wastewater: 749,000 gallons

Method used to determine volume of process wastewater:

Total amount of loads billed by the contractor (Hauler) x 7000 gallons per load.

WRITTEN AGREEMENT

Does the Operator have a written agreement (in compliance with Land Application Specification C.2 of Waste Discharge Requirements General Order No. R5-2007-0035) with any party that receives process wastewater from the Operator for its own use?

[ ] YES [X] NO

If the answer is no, the Operator agrees to have such a written agreement with any such party for any process wastewater transferred after 31 December 2007 to such party.

_____ (Operator shall provide initials here to acknowledge this requirement)

CERTIFICATION

I declare under penalty of law that I 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 a fine and imprisonment for knowing violations.

Operator Signature — Date: 6-18-24

Hauler Signature — Date: 6-18-24

June 13, 2023

Lab No. : **CH 2373404**
Customer No. : **7011307**

Pereira Dairy
29914 Road 56
Visalia, CA 93291

Laboratory Report

Introduction: This report package contains a total of 5 pages divided into 3 sections:

Case Narrative	(2 pages)	: An overview of the work performed at FGL.
Sample Results	(2 pages)	: Results for each sample submitted.
Quality Control	(1 page)	: Supporting Quality Control (QC) results.

Case Narrative

This Case Narrative pertains to the following samples:

Sample Description	Date Sampled	Date Received	FGL Lab No.	Matrix
Dairy Domestic	05/18/2023	05/19/2023	CH 2373404-001	GW
House Domestic	05/18/2023	05/19/2023	CH 2373404-002	GW

Sampling and Receipt Information:

All samples were received in acceptable condition and within temperature requirements, unless noted on the Condition Upon Receipt (CUR) form. All samples were received, prepared and analyzed within the method specified holding times except those as listed in the table below. All samples arrived on ice. All samples were checked for pH if acid or base preservation is required (except for VOAs). For details of sample receipt information, please see the associated Chain of Custody and Condition Upon Receipt Form.

Samples Over Hold Time

Lab No	Analyte Method	Maximum Hold Time	Actual Hold Time
CH 2373404-001	pH	15 minutes	18,376.0 minutes
CH 2373404-002	pH	15 minutes	18,361.0 minutes

Quality Control: All samples were prepared and analyzed according to established quality control criteria. Any exceptions are noted in the Quality Control Section of this report.

Test Summary	
SM 2540 C	Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573)
SM 4500-H+B	Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573)
SM 4500-NH3 G	Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573)
SM 4500-NO3 F	Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573)

Discussion of Analytical Results:

CH 2373404-1 The nitrite-N result used to calculate nitrate-N was performed past holding time.

CH 2373404-2 The nitrite-N result used to calculate nitrate-N was performed past holding time.

Corporate Offices & Laboratory
853 Corporation Street
Santa Paula, CA 93060
TEL: (805)392-2000
Env FAX: (805)525-4172 / Ag FAX: (805)392-2063
CA ELAP Certification No. 1573

Office & Laboratory
2500 Stagecoach Road
Stockton, CA 95215
TEL: (209)942-0182
FAX: (209)942-0423
CA ELAP Certification No. 1563

Office & Laboratory
563 E. Lindo Avenue
Chico, CA 95926
TEL: (530)343-5818
FAX: (530)343-3807
CA ELAP Certification No. 2670

Office & Laboratory
3442 Empresa Drive, Suite D
San Luis Obispo, CA 93401
TEL: (805)783-2940
FAX: (805)783-2912
CA ELAP Certification No. 2775

Office & Laboratory
9415 W. Goshen Avenue
Visalia, CA 93291
TEL: (559)734-9473
FAX: (559)734-8435
CA ELAP Certification No. 2810

Certification: I certify that this data package is in compliance with ELAP standards, both technically and for completeness, except for any conditions listed above and in the QC Section. Release of the data contained in this data package is authorized by the Laboratory Director or his designee, as verified by the following electronic signature. This report shall not be reproduced except in full, without the written approval of the laboratory.

KD: EHB

Approved By **Kelly A. Dunnahoo, B.S.** Digitally signed by Kelly A. Dunnahoo, B.S.
Title: Laboratory Director
Date: 2023-06-14

Page 2 of 5

June 13, 2023

Pereira Dairy
29914 Road 56
Visalia, CA 93291

Description : Dairy Domestic
Project : Domestic and Agricultural Supply Wells - Joe Corp

Lab No. : CH 2373404-001
Customer No. : 7011307

Sampled On : May 18, 2023 at 18:00
Sampled By : Joe Corp
Received On : May 19, 2023 at 13:40
Matrix : Ground Water

Sample Results - Inorganic

Constituent	Result	RL	Units	Note	Dil.	DQF	Sample Preparation			Sample Analysis			
Dairy Analysis							Date	Time	Who	Method	Date	Time	Who
Ammonia-N	ND	0.2	mg/L		1	U	06/02/2023	13:05	lcr	SM 4500-NH3 G	06/02/2023	14:22	lcr
Nitrate Nitrogen	40.3	0.4	mg/L		1		05/26/2023	14:00	lfs	SM 4500-NO3 F	05/26/2023	14:43	lfs
Conductivity	865	1	umhos/cm		1		05/24/2023	13:38	amm	SM 4500-H+B	05/24/2023	14:34	amm
pH	8.02	---	units		1	T	05/31/2023	12:16	krh	SM 4500-H+B	05/31/2023	12:56	krh
Solids, Total Dissolved (TDS)	620	20	mg/L		1		05/23/2023	14:50	ctl	SM 2540 C	05/24/2023	11:25	ctl

DQF Flags Definition:
U Constituent results were non-detect.
T Exceeded method/regulatory-specific holding time.

ND=Non-Detected, RL=Reporting Level , Dil.=Dilution

Page 3 of 5

Corporate Offices & Laboratory
853 Corporation Street
Santa Paula, CA 93060
TEL: (805)392-2000
Env FAX: (805)525-4172 / Ag FAX: (805)392-2063
CA ELAP Certification No. 1573

Office & Laboratory
2500 Stagecoach Road
Stockton, CA 95215
TEL: (209)942-0182
FAX: (209)942-0423
CA ELAP Certification No. 1563

Office & Laboratory
563 E. Lindo Avenue
Chico, CA 95926
TEL: (530)343-5818
FAX: (530)343-3807
CA ELAP Certification No. 2670

Office & Laboratory
3442 Empresa Drive, Suite D
San Luis Obispo, CA 93401
TEL: (805)783-2940
FAX: (805)783-2912
CA ELAP Certification No. 2775

Office & Laboratory
9415 W. Goshen Avenue
Visalia, CA 93291
TEL: (559)734-9473
FAX: (559)734-8435
CA ELAP Certification No. 2810

June 13, 2023

Pereira Dairy
29914 Road 56
Visalia, CA 93291

Description : House Domestic
Project : Domestic and Agricultural Supply Wells - Joe Corp

Lab No. : CH 2373404-002
Customer No. : 7011307

Sampled On : May 18, 2023 at 18:15
Sampled By : Joe Corp
Received On : May 19, 2023 at 13:40
Matrix : Ground Water

Sample Results - Inorganic

Constituent	Result	RL	Units	Note	Dil.	DQF	Sample Preparation			Sample Analysis			
							Date	Time	Who	Method	Date	Time	Who
Dairy Analysis													
Ammonia-N	ND	0.2	mg/L		1	U	06/02/2023	13:05	lcr	SM 4500-NH3 G	06/02/2023	14:35	lcr
Nitrate Nitrogen	55.1	2*	mg/kg		5		05/31/2023	12:30	lfs	SM 4500-NO3 F	05/31/2023	17:02	lfs
Conductivity	1560	1	umhos/cm		1		05/24/2023	13:38	amm	SM 4500-H+B	05/24/2023	14:16	amm
pH	7.78	---	units		1	T	05/31/2023	12:16	krh	SM 4500-H+B	05/31/2023	12:37	krh
Solids, Total Dissolved (TDS)	1180	20	mg/L		1		05/23/2023	14:50	ctl	SM 2540 C	05/24/2023	11:25	ctl

DQF Flags Definition:
U Constituent results were non-detect.
T Exceeded method/regulatory-specific holding time.

ND=Non-Detected, RL=Reporting Level * RL adusted for dilution, Dil.=Dilution

Page 4 of 5

Corporate Offices & Laboratory
853 Corporation Street
Santa Paula, CA 93060
TEL: (805)392-2000
Env FAX: (805)525-4172 / Ag FAX: (805)392-2063
CA ELAP Certification No. 1573

Office & Laboratory
2500 Stagecoach Road
Stockton, CA 95215
TEL: (209)942-0182
FAX: (209)942-0423
CA ELAP Certification No. 1563

Office & Laboratory
563 E. Lindo Avenue
Chico, CA 95926
TEL: (530)343-5818
FAX: (530)343-3807
CA ELAP Certification No. 2670

Office & Laboratory
3442 Empresa Drive, Suite D
San Luis Obispo, CA 93401
TEL: (805)783-2940
FAX: (805)783-2912
CA ELAP Certification No. 2775

Office & Laboratory
9415 W. Goshen Avenue
Visalia, CA 93291
TEL: (559)734-9473
FAX: (559)734-8435
CA ELAP Certification No. 2810

June 13, 2023
Pereira Dairy

Lab No. : CH 2373404
Customer No. : 7011307

Quality Control - Wet Chem

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Wet Chem								
E. C.	2320B	(CH 2373403-002)	Dup	umhos/cm		0%	5	
Solids, Total Dissolved	2540CE	05/23/2023:205656CTL	Blank	mg/L		ND	<20	
			LCS	mg/L	993.7	101%	90-110	
		(SP 2308381-001)	Dup	mg/L		0.5%	5	
		(SP 2308381-001)	Dup	mg/L		0.8%	5	
pH	4500-H B	(VI 2343224-001)	Dup	units		0.5%	4.80	
Ammonia Nitrogen	4500NH3G	06/02/2023:205980LCR	Blank	mg/L		ND	<0.2	
			LCS	mg/L	2.000	94.3%	90-110	
			MS	mg/L	2.000	97.4%	46-139	
		(SP 2308139-001)	MSD	mg/L	2.000	95.5%	46-139	
			MSRPD	mg/L		1.7%	≤20	
Nitrate Nitrogen	4500NO3F	05/26/2023:205805LFS	Blank	mg/L		ND	<0.4	
			LCS	mg/L	11.22	97.5%	80-120	
			MS	mg/L	5.609	95.3%	66-125	
		(SP 2308662-002)	MSD	mg/L	5.609	94.3%	66-125	
			MSRPD	mg/L		1.0%	≤30.4	
	4500NO3F	05/31/2023:205946LFS	Blank	mg/L		ND	<0.4	
			LCS	mg/L	11.22	97.3%	80-120	
			MS	mg/L	5.609	93.7%	66-125	
		(SP 2308836-001)	MSD	mg/L	5.609	93.2%	66-125	
			MSRPD	mg/L		0.2%	≤30.4	

Definition

Blank : Method Blank - Prepared to verify that the preparation process is not contributing contamination to the samples.
DQO : Data Quality Objective - This is the criteria against which the quality control data is compared.
Dup : Duplicate Sample - A random sample with each batch is prepared and analyzed in duplicate. The relative percent difference is an indication of precision for the preparation and analysis.
LCS : Laboratory Control Standard/Sample - Prepared to verify that the preparation process is not affecting analyte recovery.
MS : Matrix Spikes - A random sample is spiked with a known amount of analyte. The recoveries are an indication of how that sample matrix affects analyte recovery.
MSD : Matrix Spike Duplicate of MS/MSD pair - A random sample duplicate is spiked with a known amount of analyted. The recoveries are an indication of how that sample matrix affects analyte recovery.
MSRPD : MS/MSD Relative Percent Difference (RPD) - The MS relative percent difference is an indication of precision for the preparation and analysis.
ND : Non-detect - Result was below the DQO listed for the analyte.

Page 5 of 5

Corporate Offices & Laboratory
853 Corporation Street
Santa Paula, CA 93060
TEL: (805)392-2000
Env FAX: (805)525-4172 / Ag FAX: (805)392-2063
CA ELAP Certification No. 1573

Office & Laboratory
2500 Stagecoach Road
Stockton, CA 95215
TEL: (209)942-0182
FAX: (209)942-0423
CA ELAP Certification No. 1563

Office & Laboratory
563 E. Lindo Avenue
Chico, CA 95926
TEL: (530)343-5818
FAX: (530)343-3807
CA ELAP Certification No. 2670

Office & Laboratory
3442 Empresa Drive, Suite D
San Luis Obispo, CA 93401
TEL: (805)783-2940
FAX: (805)783-2912
CA ELAP Certification No. 2775

Office & Laboratory
9415 W. Goshen Avenue
Visalia, CA 93291
TEL: (559)734-9473
FAX: (559)734-8435
CA ELAP Certification No. 2810

ENVIRONMENTAL & AGRONOMIC

Dairy Operations
www.fglinc.com

CHAIN OF CUSTODY
AND ANALYSES REQUEST FORM

CLIENT DETAILS — SECTION I

Client: Pereira Dairy

☐ New Customer Customer Number: 7011307

Address: 29914 Road 56
Visalia, CA 93291

Phone: (530)520-6232 FAX:

Email: jcorp@ppeng.com

Project Name: JC-Domestic & Ag Supply Wells

Contact person: Joe Corp

Billing Information (if different from above)

Name:

Address:

Phone: FAX:

Contact Person:

Purchase order/contract/FGL quote number:

SAMPLING — SECTION II

Lab Number: 2373404

Sampler(s): RC

Time:

Mileage:

Shipping Charge:

Pickup Charge:

SAMPLE INFORMATION — SECTION III

Samp Num	Location/Description	Date Sampled	Time Sampled	Number of Containers	Type of Container:(G)Glass, (P) Plastic, (Z) Ziplock, (PB) Paper Bag	(PW) Process Water, (M)Manure,(S) Soil, (T) Crop Tissue, (IW)Irrigation Water, (SW) Storm Water	(1) H2S04, (2) HNO3, (3) Na2S203, (4) Other	DOMESTIC & AG SUPPLY WELLS	DAW1: NO3-N, TDS, EC + Ammonia & pH	DAW1 (if detected in field): NH3-N	DAW2: Alk. (CaCO3),Cl,TDS,SO4,Ca,Na,Mg	DAW Field-Field E.C.	DAW Field-Field NH3-N						
1	Dairy Domestic	5/18/23	1800						X										
2	House Domestic	5/18/23	1815						X										

REMARKS — SECTION IV

Copy to J. Corp

CUSTODY — SECTION V

Reliquished By:		Print Name: JOE Corp	Date: 5/19/23	Time: 1340
Received By:		Print Name:	Date: 5/19/23	Time: 1340
Reliquished By:		Print Name:	Date: 5/19/23	Time: 1700
Received By:	GLO	Print Name: GLO	Date: 5/19/23	Time: 1700

GLS 5/20/23 1318

Corporate Office and Laboratory
853 Corporation Street
Santa Paula, CA 93060
Tel: (805) 392-2000
FAX: (805) 525-4172

Office & Laboratory
2500 Stagecoach Road
Stockton, CA 95215
Tel: (209) 942-0182
FAX: (209) 942-0423

Office & Laboratory
363 E.Lindo Avenue
Chico, CA 95926
Tel: (530) 343-5818
FAX: (530) 343-3807

Office & Laboratory
3442 Empresa Drive, Suite D
San Luis Obispo, CA 93401
Tel: (805) 783-2940
FAX: (805) 392-2063

Field Office
Visalia, California
Cell: (559) 737-2399
Tel: (559) 734-9473
FAX: (559) 734-8435

2373404

Inter-Laboratory Condition Upon Receipt (Attach to COC)

Sample Receipt at: STK CC CH VI

1. Number of ice chests/packages received: ROC Shipping tracking # _____
2. Were samples received in a chilled condition? Temps: ~~ROC~~ ____/____/____/____
   Surface water SWTR bact samples: A sample that has a temperature upon receipt of >10° C, whether iced or not, should be flagged unless the time since sample collection has been less than two hours.

3. Do the number of bottles received agree with the COC?	Yes	No	N/A
4. Were samples received intact? (i.e. no broken bottles, leaks etc.)	Yes	No	
5. VOAs checked for Headspace?	Yes	No	N/A
6. Were sample custody seals intact?	Yes	No	N/A
7. If required, was sample split for pH analysis?	Yes	No	N/A
8. Were all analyses within holding times at time of receipt?	Yes	No	
9. Verify sample date, time and sampler name	Yes	No	

Sign and date the COC, place in a ziplock and put in the same ice chest as the samples.
Sample Receipt Review completed by (initials): UM

Sample Receipt at SP:

1. Were samples received in a chilled condition? Temps: ____/____/____/____/____
   Acceptable is above freezing to 6E C. If many packages are received at one time check for tests/H.T.'s/rushes/
2. Shipping tracking numbers:
   SS9435673

3. Do the number of bottles received agree with the COC?	Yes	No	N/A
4. Were samples received intact? (i.e. no broken bottles, leaks etc.)	Yes	No	
5. Were sample custody seals intact?	Yes	No	N/A

Sign and date the COC, obtain LIMS sample numbers, select methods/tests and print labels.

Sample Verification, Labeling and Distribution:

1. Were all requested analyses understood and acceptable?	Yes	No		
2. Did bottle labels correspond with the client's ID's?	Yes	No		
3. Were all bottles requiring sample preservation properly preserved? [Exception: Oil & Grease, VOA and CrVI verified in lab]	Yes	No	N/A	FGL
4. VOAs checked for Headspace?	Yes	No	N/A	
5. Have rush or project due dates been checked and accepted?	Yes	No	N/A	
6. Were all analyses within holding times at time of receipt?	Yes	No		

Attach labels to the containers and include a copy of the COC for lab delivery.
Sample Receipt, Login and Verification completed by (initials): CDA

Discrepancy Documentation:
Any items above which are "No" or do not meet specifications (i.e. temps) must be resolved.

1. Person Contacted: _____ Phone Number: _____
   Initiated By: _____ Date: _____
   Problem:
   Resolution:

2. Person Contacted: _____
   Initiated By: _____
   Problem:
   Resolution:

(Please use the back of this sheet for addition

(7011307)
Pereira Dairy
CH 2373404
iv 05/22/2023 07:39:28
CH 2373404

November 6, 2023

Lab No. : **CH 2378919**
Customer No. : **7011307**

Pereira Dairy
29914 Road 56
Visalia, CA 93291

Laboratory Report

Introduction: This report package contains a total of 3 pages divided into 3 sections:

Case Narrative	(1 page)	: An overview of the work performed at FGL.
Sample Results	(1 page)	: Results for each sample submitted.
Quality Control	(1 page)	: Supporting Quality Control (QC) results.

Case Narrative

This Case Narrative pertains to the following samples:

Sample Description	Date Sampled	Date Received	FGL Lab No.	Matrix
Pereira Ag Well	10/11/2023	10/11/2023	CH 2378919-001	AGW

Sampling and Receipt Information:

The Sample was received in acceptable condition and within temperature requirements, unless noted on the Condition Upon Receipt (CUR) form. The Sample was received, prepared and analyzed within the method specified holding times. All samples arrived on ice. All samples were checked for pH if acid or base preservation is required (except for VOAs). For details of sample receipt information, please see the associated Chain of Custody and Condition Upon Receipt Form.

Quality Control: All samples were prepared and analyzed according to established quality control criteria. Any exceptions are noted in the Quality Control Section of this report.

Test Summary	
SM 2320 B	Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573)
SM 2540 C	Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573)
SM 4500-NH3 G	Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573)
SM 4500-NO3 F	Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573)

Discussion of Analytical Results:

CH 2378919-1 The nitrite-N result used to calculate nitrate-N was performed past holding time.

Certification: I certify that this data package is in compliance with ELAP standards, both technically and for completeness, except for any conditions listed above and in the QC Section. Release of the data contained in this data package is authorized by the Laboratory Director or his designee, as verified by the following electronic signature. This report shall not be reproduced except in full, without the written approval of the laboratory.

KD: JRD

Approved By **Kelly A. Dunnahoo, B.S.** Digitally signed by Kelly A. Dunnahoo, B.S.
Title: Laboratory Director
Date: 2023-11-06

Corporate Offices & Laboratory
853 Corporation Street
Santa Paula, CA 93060
TEL: (805)392-2000
Env FAX: (805)525-4172 / Ag FAX: (805)392-2063
CA ELAP Certification No. 1573

Office & Laboratory
2500 Stagecoach Road
Stockton, CA 95215
TEL: (209)942-0182
FAX: (209)942-0423
CA ELAP Certification No. 1563

Office & Laboratory
563 E. Lindo Avenue
Chico, CA 95926
TEL: (530)343-5818
FAX: (530)343-3807
CA ELAP Certification No. 2670

Office & Laboratory
3442 Empresa Drive, Suite D
San Luis Obispo, CA 93401
TEL: (805)783-2940
FAX: (805)783-2912
CA ELAP Certification No. 2775

Office & Laboratory
9415 W. Goshen Avenue
Visalia, CA 93291
TEL: (559)734-9473
FAX: (559)734-8435
CA ELAP Certification No. 2810

November 6, 2023

Pereira Dairy
29914 Road 56
Visalia, CA 93291

Description : Pereira Ag Well
Project : Domestic & Ag Supply Wells

Lab No. : CH 2378919-001
Customer No. : 7011307

Sampled On : October 11, 2023 at 12:00
Sampled By : Joe Corp
Received On : October 11, 2023 at 14:30
Matrix : Ag Water

Sample Results - Inorganic

Constituent	Result	RL	Units	Note	Dil.	DQF	Sample Preparation			Sample Analysis			
Dairy Analysis							Date	Time	Who	Method	Date	Time	Who
Ammonia-N	ND	0.2	mg/L		1	U	10/19/2023	13:28	lcr	SM 4500-NH3 G	10/19/2023	15:02	lcr
Nitrate Nitrogen	57.7	2*	mg/L		5		10/17/2023	13:00	lfs	SM 4500-NO3 F	10/17/2023	17:00	lfs
Conductivity	1200	1	umhos/cm		1		10/19/2023	09:41	krh	SM 2320 B	10/19/2023	13:47	krh
Solids, Total Dissolved (TDS)	1020	20	mg/L		1		10/16/2023	13:30	ctl	SM 2540 C	10/17/2023	11:00	ctl

DQF Flags Definition:
U Constituent results were non-detect.

ND=Non-Detected, RL=Reporting Level * RL adjusted for dilution, Dil.=Dilution

Page 2 of 3

Corporate Offices & Laboratory
853 Corporation Street
Santa Paula, CA 93060
TEL: (805)392-2000
Env FAX: (805)525-4172 / Ag FAX: (805)392-2063
CA ELAP Certification No. 1573

Office & Laboratory
2500 Stagecoach Road
Stockton, CA 95215
TEL: (209)942-0182
FAX: (209)942-0423
CA ELAP Certification No. 1563

Office & Laboratory
563 E. Lindo Avenue
Chico, CA 95926
TEL: (530)343-5818
FAX: (530)343-3807
CA ELAP Certification No. 2670

Office & Laboratory
3442 Empresa Drive, Suite D
San Luis Obispo, CA 93401
TEL: (805)783-2940
FAX: (805)783-2912
CA ELAP Certification No. 2775

Office & Laboratory
9415 W. Goshen Avenue
Visalia, CA 93291
TEL: (559)734-9473
FAX: (559)734-8435
CA ELAP Certification No. 2810

November 6, 2023
Pereira Dairy

Lab No. : CH 2378919
Customer No. : 7011307

Quality Control - Wet Chem

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Wet Chem								
E. C.	2320B	(CC 2383472-001)	Dup	umhos/cm		0%	5	
Solids, Total Dissolved	2540CE	10/16/2023:211599CTL	Blank	mg/L		ND	<20	
			LCS	mg/L	991.5	102%	90-110	
		(SP 2317343-001)	Dup	mg/L		0.9%	5	
		(SP 2317343-001)	Dup	mg/L		0.8%	5	
Ammonia Nitrogen	4500NH3G	10/19/2023:211839LCR	Blank	mg/L		ND	<0.2	
			LCS	mg/L	2.000	98.8%	90-110	
			MS	mg/L	2.000	99.0%	46-139	
		(SP 2317688-001)	MSD	mg/L	2.000	101%	46-139	
			MSRPD	mg/L		1.6%	≤20	
Nitrate Nitrogen	4500NO3F	10/17/2023:211742LFS	Blank	mg/L		ND	<0.4	
			LCS	mg/L	11.22	101%	80-120	
			MS	mg/L	5.609	89.1%	66-125	
		(VI 2346971-001)	MSD	mg/L	5.609	91.9%	66-125	
			MSRPD	mg/L		1.0%	≤30.4	

Definition

Blank : Method Blank - Prepared to verify that the preparation process is not contributing contamination to the samples.

DQO : Data Quality Objective - This is the criteria against which the quality control data is compared.

Dup : Duplicate Sample - A random sample with each batch is prepared and analyzed in duplicate. The relative percent difference is an indication of precision for the preparation and analysis.

LCS : Laboratory Control Standard/Sample - Prepared to verify that the preparation process is not affecting analyte recovery.

MS : Matrix Spikes - A random sample is spiked with a known amount of analyte. The recoveries are an indication of how that sample matrix affects analyte recovery.

MSD : Matrix Spike Duplicate of MS/MSD pair - A random sample duplicate is spiked with a known amount of analyted. The recoveries are an indication of how that sample matrix affects analyte recovery.

MSRPD : MS/MSD Relative Percent Difference (RPD) - The MS relative percent difference is an indication of precision for the preparation and analysis.

ND : Non-detect - Result was below the DQO listed for the analyte.

Page 3 of 3

Corporate Offices & Laboratory
853 Corporation Street
Santa Paula, CA 93060
TEL: (805)392-2000
Env FAX: (805)525-4172 / Ag FAX: (805)392-2063
CA ELAP Certification No. 1573

Office & Laboratory
2500 Stagecoach Road
Stockton, CA 95215
TEL: (209)942-0182
FAX: (209)942-0423
CA ELAP Certification No. 1563

Office & Laboratory
563 E. Lindo Avenue
Chico, CA 95926
TEL: (530)343-5818
FAX: (530)343-3807
CA ELAP Certification No. 2670

Office & Laboratory
3442 Empresa Drive, Suite D
San Luis Obispo, CA 93401
TEL: (805)783-2940
FAX: (805)783-2912
CA ELAP Certification No. 2775

Office & Laboratory
9415 W. Goshen Avenue
Visalia, CA 93291
TEL: (559)734-9473
FAX: (559)734-8435
CA ELAP Certification No. 2810

ENVIRONMENTAL & AGRONOMIC

Dairy Operations
www.fglinc.com

CHAIN OF CUSTODY
AND ANALYSES REQUEST FORM

CLIENT DETAILS — SECTION I

Client: Pereira Dairy

☐ New Customer Customer Number: 7011307

Address: 29914 Road 56
Visalia, CA 93291

Phone: (530)520-6232 FAX:

Email: jcorp@ppeng.com

Project Name: Domestic & Ag Supply Wells

Contact person: Joe Corp

Billing Information (if different from above)

Name:

Address:

Phone: FAX:

Contact Person:

Purchase order/contract/FGL quote number:

SAMPLING — SECTION II

Lab Number: 2378919

Sampler(s): JC

Time:

Mileage:

Shipping Charge:

Pickup Charge:

SAMPLE INFORMATION — SECTION III

Samp Num	Location/Description	Date Sampled	Time Sampled	Number of Containers	Type of Container:(G)Glass, (P) Plastic, (Z) Ziplock, (PB) Paper Bag	(PW) Process Water, (M)Manure,(S) Soil, (T) Crop Tissue, (IW)Irrigation Water, (SW) Storm Water	(1) H2S04, (2) HNO3, (3) Na2S203, (4) Other	DOMESTIC & AG SUPPLY WELLS	DAW1: NO3-N, Ammonia, pH, TDS, EC	DAW1 (if detected in field): NH3-N	DAW2: Alk. (CaCO3),Cl,TDS,SO4,Ca,Na,Mg	DAW Field-Field E.C.	DAW Field-Field NH3-N						
1	PEREIRA Ag WELL	10/11/23	1200						X										

REMARKS — SECTION IV

Copy to J. Corp

CUSTODY — SECTION V

Relinquished By:	[signature]	Print Name:	Joe Corp	Date: 10/13/23	Time: 1430
Received By:	[signature]	Print Name:	Kralyn Brown	Date: 10/13/23	Time: 1430
Relinquished By:	[signature]	Print Name:	Kralyn Brown	Date: 10/13/23	Time: 1700
Received By:	GLS	Print Name:	GLS	Date: 10/13/23	Time: 1700

GLS 10/14/23 1556

Corporate Office and Laboratory
853 Corporation Street
Santa Paula, CA 93060
Tel: (805) 392-2000
FAX: (805) 525-4172

Office & Laboratory
2500 Stagecoach Road
Stockton, CA 95215
Tel: (209) 942-0182
FAX: (209) 942-0423

Office & Laboratory
563 E.Lindo Avenue
Chico, CA 95926
Tel: (530) 343-5818
FAX: (530) 343-3807

Office & Laboratory
3442 Empresa Drive, Suite D
San Luis Obispo, CA 93401
Tel: (805) 783-2940
FAX: (805) 392-2063

Field Office
Visalia, California
Cell: (559) 737-2399
Tel: (559) 734-9473
FAX: (559) 734-8435

2378919

Inter-Laboratory Condition Upon Receipt (Attach to COC)

Sample Receipt at: STK CC CH VI

1. Number of ice chests/packages received: 1 Shipping tracking # _____
2. Were samples received in a chilled condition? Temps: RC1 / ____ / ____ / ____ / ____
   Surface water SWTR bact samples: A sample that has a temperature upon receipt of >10° C, whether iced or not, should be flagged unless the time since sample collection has been less than two hours.

3. Do the number of bottles received agree with the COC?	Yes	No	N/A
4. Were samples received intact? (i.e. no broken bottles, leaks etc.)	Yes	No	
5. VOAs checked for Headspace?	Yes	No	N/A
6. Were sample custody seals intact?	Yes	No	N/A
7. If required, was sample split for pH analysis?	Yes	No	N/A
8. Were all analyses within holding times at time of receipt?	Yes	No	
9. Verify sample date, time and sampler name	Yes	No	

Sign and date the COC, place in a ziplock and put in the same ice chest as the samples.
Sample Receipt Review completed by (initials): RB

Sample Receipt at SP:

1. Were samples received in a chilled condition? Temps: 4c / ____ / ____ / ____ / ____
   Acceptable is above freezing to 6E C. If many packages are received at one time check for tests/H.T.'s/rushes/
2. Shipping tracking numbers: 5429 3136

3. Do the number of bottles received agree with the COC?	Yes	No	N/A
4. Were samples received intact? (i.e. no broken bottles, leaks etc.)	Yes	No	
5. Were sample custody seals intact?	Yes	No	N/A

Sign and date the COC, obtain LIMS sample numbers, select methods/tests and print labels.

Sample Verification, Labeling and Distribution:

1. Were all requested analyses understood and acceptable?	Yes	No		
2. Did bottle labels correspond with the client's ID's?	Yes	No		
3. Were all bottles requiring sample preservation properly preserved? [Exception: Oil & Grease, VOA and CrVI verified in lab]	Yes	No	N/A	FGL
4. VOAs checked for Headspace?	Yes	No	N/A	
5. Have rush or project due dates been checked and accepted?	Yes	No	N/A	
6. Were all analyses within holding times at time of receipt?	Yes	No		

Attach labels to the containers and include a copy of the COC for lab delivery.
Sample Receipt, Login and Verification completed by (initials): MDC

Discrepancy Documentation:
Any items above which are "No" or do not meet specifications (i.e. temps) must be resolved.

1. Person Contacted: _____ Phone Number: _____
   Initiated By: _____ Date: _____
   Problem:
   Resolution:

2. Person Contacted: _____
   Initiated By: _____
   Problem:
   Resolution:

(7011307)
Pereira Dairy
CH 2378919
mdc 10/16/2023 10:01:49
CH 2378919