

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:** Simoes Sandlin Family Farms

Physical address of dairy:

10254 Ave. 184
Number and StreetTulare
CityTulare
County93274
Zip Code

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

Date facility was originally placed in operation: 05/01/1970Regional Water Quality Control Board Basin Plan designation: Tulare Basin

County Assessor Parcel Number(s) for dairy facility:

X228-X110-X023-XXXX**B. OPERATORS**

Simoes Sandlin, Leanne

Operator name: Simoes Sandlin, Leanne

Telephone no.:

(559) 991-7190

Landline

Cellular

743 Kirk CTTulareCA93274

Mailing Address Number and Street

City

State

Zip Code

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

Simoes Sandlin, Leanne

Legal owner name: Simoes Sandlin, Leanne

Telephone no.:

(559) 991-7190

Landline

Cellular

743 Kirk CTTulareCA93274

Mailing Address Number and Street

City

State

Zip Code

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	0	0	0	0	0	0
Number under roof	1,113	116	319	389	0	0
Maximum number	1,126	129	336	410	0	0
Average number	1,113	116	319	389	0	0
Avg live weight (lbs)	1,000	1,100	700	600		

Predominant milk cow breed: Jersey-Holstein Cross

Average milk production: 60 pounds per cow per day

B. MANURE GENERATED

Total manure excreted by the herd: 35,343.33 tons per reporting period

Total nitrogen from manure: 444,558.71 lbs per reporting period

After ammonia losses (30% loss applied): 311,191.10 lbs per reporting period

Total phosphorus from manure: 74,218.38 lbs per reporting period

Total potassium from manure: 205,837.36 lbs per reporting period

Total salt from manure: 550,730.25 lbs per reporting period

C. PROCESS WASTEWATER GENERATED

Process wastewater generated: 53,707,435 gallons

Total nitrogen generated: 127,858.77 lbs

Total phosphorus generated: 35,533.71 lbs

Total potassium generated: 231,799.69 lbs

Total salt generated: 1,617,171.64 lbs

53,707,435 gallons applied
+ 0 gallons exported
- 0 gallons imported
= 53,707,435 gallons generated

D. FRESH WATER SOURCES

Source Description	Type
Barn Well East	Ground water
Barn Well West	Ground water
Irr. Well #1	Ground water
Irr. Well #6	Ground water
Irr. Well #7	Ground water

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Source Description	Type
IW3	Ground water
N.E. Irr Well	Ground water
Peoples Tulare ID	Surface water
S.E. Irr. Well	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
3	144	144	2	process wastewater	X228-X070-X038-XXXX X228-X070-X039-XXXX
4	79	79	2	process wastewater	X228-X110-X002-XXXX X228-X110-X023-XXXX
5	124	124	0	none	X228-X100-X005-XXXX X228-X110-X004-XXXX
Totals for areas that were used for application	223	223	4		
Totals for areas that were not used for application	124	124	0		
Land application area totals	347	347	4		

B. CROPS AND HARVESTS

3

Field name: 3

11/17/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough

Acres planted: 144 Plant date: 11/17/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/29/2023	2,910.00 ton	Dry-weight		64.7	16,200.00	4,200.00	21,100.00		11.90

	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	1,494.00
Total actual harvest content	20.21	231.13	59.92	301.04	1,697.78

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3

06/04/2023: Corn, silage

Crop: Corn, silage Acres planted: 144 Plant date: 06/04/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/14/2023	4,080.00 ton	Dry-weight		68.8	13,600.00	2,400.00	12,000.00		5.11

	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	1,500.00
Total actual harvest content	28.33	240.45	42.43	212.16	903.45

4

Field name: 4

11/18/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 79 Plant date: 11/18/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/29/2023	1,659.00 ton	Dry-weight		65.9	15,400.00	4,600.00	23,700.00		16.30

	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	1,494.00
Total actual harvest content	21.00	220.56	65.88	339.43	2,334.49

06/04/2023: Corn, silage

Crop: Corn, silage Acres planted: 79 Plant date: 06/04/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/14/2023	2,251.00 ton	Dry-weight		68.7	13,200.00	2,400.00	12,300.00		5.41

	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	1,500.00
Total actual harvest content	28.49	235.45	42.81	219.40	964.98

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5

Field name: 5

05/15/2020: Almond, in shell

Crop: Almond, in shell Acres planted: 124 Plant date: 05/15/2020

No harvests entered for this crop.

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	0.70	63.70	9.80	49.00	98.00
Total actual harvest content	0.00	0.00	0.00	0.00	0.00

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NUTRIENT BUDGET

A. LAND APPLICATIONS

3 - 11/17/2022: Wheat, silage, soft dough

Field name: 3

Crop: Wheat, silage, soft dough

Plant date: 11/17/2022

Application date	Application method		Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
10/27/2022	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		Process wastewater	87.21	40.96	199.25	2,092.94	9,120,060.00 <i>gal</i>
Peoples Tulare ID		Surface water	0.00	0.00	0.00	32.69	14,100,500.00 <i>gal</i>
Application event totals			87.21	40.96	199.25	2,125.63	
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
Lagoon		Process wastewater	116.66	15.96	231.99	1,356.17	4,606,650.00 <i>gal</i>
Peoples Tulare ID		Surface water	0.00	0.00	0.00	32.69	14,100,350.00 <i>gal</i>
Application event totals			116.66	15.96	231.99	1,388.85	
04/07/2023	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		Process wastewater	78.42	28.75	169.44	537.06	4,100,650.00 <i>gal</i>
Peoples Tulare ID		Surface water	0.00	0.00	0.00	30.98	13,365,500.00 <i>gal</i>
Application event totals			78.42	28.75	169.44	568.04	

3 - 06/04/2023: Corn, silage

Field name: 3

Crop: Corn, silage

Plant date: 06/04/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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3 - 06/04/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
06/06/2023	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
Peoples Tulare ID	Surface water	0.00	0.00	0.00	58.19	25,103,320.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	58.19	
06/28/2023	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	Process wastewater	90.59	22.56	136.19	1,020.64	5,210,650.00 <i>gal</i>
Peoples Tulare ID	Surface water	0.00	0.00	0.00	53.00	22,865,980.00 <i>gal</i>
Application event totals		90.59	22.56	136.19	1,073.64	
07/10/2023	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	Process wastewater	84.02	21.06	127.15	952.94	4,865,000.00 <i>gal</i>
Peoples Tulare ID	Surface water	0.00	0.00	0.00	50.78	21,906,500.00 <i>gal</i>
Application event totals		84.02	21.06	127.15	1,003.72	
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
Lagoon	Process wastewater	62.63	15.70	94.78	710.34	3,626,500.00 <i>gal</i>
Peoples Tulare ID	Surface water	0.00	0.00	0.00	54.39	23,465,650.00 <i>gal</i>
Application event totals		62.63	15.70	94.78	764.74	
08/03/2023	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
Peoples Tulare ID	Surface water	0.00	0.00	0.00	55.56	23,968,730.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	55.56	

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3 - 06/04/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
08/18/2023	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	Process wastewater	58.70	14.71	88.83	665.76	3,398,870.00 <i>gal</i>
Peoples Tulare ID	Surface water	0.00	0.00	0.00	52.77	22,765,650.00 <i>gal</i>
Application event totals		58.70	14.71	88.83	718.53	

4 - 11/18/2022: Wheat, silage, soft dough

Field name: 4

Crop: Wheat, silage, soft dough

Plant date: 11/18/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
10/30/2022	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	Process wastewater	85.52	40.17	195.39	2,052.42	4,906,500.00 <i>gal</i>
Peoples Tulare ID	Surface water	0.00	0.00	0.00	29.72	7,032,650.00 <i>gal</i>
Application event totals		85.52	40.17	195.39	2,082.14	

01/02/2023	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		Process wastewater	101.86	13.94	202.55	1,184.09	2,206,595.00 <i>gal</i>	
Peoples Tulare ID		Surface water	0.00	0.00	0.00	29.86	7,065,950.00 <i>gal</i>	
Application event totals			101.86	13.94	202.55	1,213.95		

03/31/2023	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		Process wastewater	89.77	32.72	192.80	611.11	2,559,850.00 <i>gal</i>	
Peoples Tulare ID		Surface water	0.00	0.00	0.00	31.72	7,506,650.00 <i>gal</i>	
Application event totals			89.77	32.72	192.80	642.83		

4 - 06/04/2023: Corn, silage

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4 - 06/04/2023: Corn, silage

Field name: 4

Crop: Corn, silage

Plant date: 06/04/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
06/05/2023	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
Peoples Tulare ID	Surface water	0.00	0.00	0.00	54.96	13,006,500.00 gal
Application event totals		0.00	0.00	0.00	54.96	
06/25/2023	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
Lagoon	Process wastewater	104.60	26.04	157.24	1,178.46	3,300,650.00 gal
Peoples Tulare ID	Surface water	0.00	0.00	0.00	53.28	12,608,650.00 gal
Application event totals		104.60	26.04	157.24	1,231.74	
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	Process wastewater	91.49	22.93	138.47	1,037.73	2,906,500.00 gal
Peoples Tulare ID	Surface water	0.00	0.00	0.00	57.28	13,555,400.00 gal
Application event totals		91.49	22.93	138.47	1,095.01	
07/18/2023	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	Process wastewater	91.26	22.88	138.11	1,035.04	2,898,960.00 gal
Peoples Tulare ID	Surface water	0.00	0.00	0.00	57.91	13,705,650.00 gal
Application event totals		91.26	22.88	138.11	1,092.95	
07/30/2023	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
Peoples Tulare ID	Surface water	0.00	0.00	0.00	59.14	13,996,800.00 gal
Application event totals		0.00	0.00	0.00	59.14	

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4 - 06/04/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
08/13/2023	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
Peoples Tulare ID	Surface water	0.00	0.00	0.00	58.27	13,789,985.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	58.27	

5 - 05/15/2020: Almond, in shell

Field name: 5

Crop: Almond, in shell

Plant date: 05/15/2020

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
04/15/2023	Pipeline	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Peoples Tulare ID	Surface water	0.00	0.00	0.00	36.26	13,468,384.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	36.26	
05/15/2023	Pipeline	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Peoples Tulare ID	Surface water	0.00	0.00	0.00	45.32	16,835,480.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	45.32	
06/10/2023	Pipeline	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
UN 32	Liquid commercial fertilizer	40.00	0.00	0.00	0.00	
Peoples Tulare ID	Surface water	0.00	0.00	0.00	45.32	16,835,480.00 <i>gal</i>
Application event totals		40.00	0.00	0.00	45.32	
07/01/2023	Pipeline	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Peoples Tulare ID	Surface water	0.00	0.00	0.00	45.32	16,835,480.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	45.32	

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5 - 05/15/2020: Almond, in shell

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
07/17/2023	Pipeline	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Peoples Tulare ID	Surface water	0.00	0.00	0.00	45.32	16,835,480.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	45.32	
08/01/2023	Pipeline	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Peoples Tulare ID	Surface water	0.00	0.00	0.00	45.32	16,835,480.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	45.32	
08/14/2023	Pipeline	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Peoples Tulare ID	Surface water	0.00	0.00	0.00	45.32	16,835,480.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	45.32	
09/26/2023	Pipeline	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Peoples Tulare ID	Surface water	0.00	0.00	0.00	45.32	16,835,480.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	45.32	

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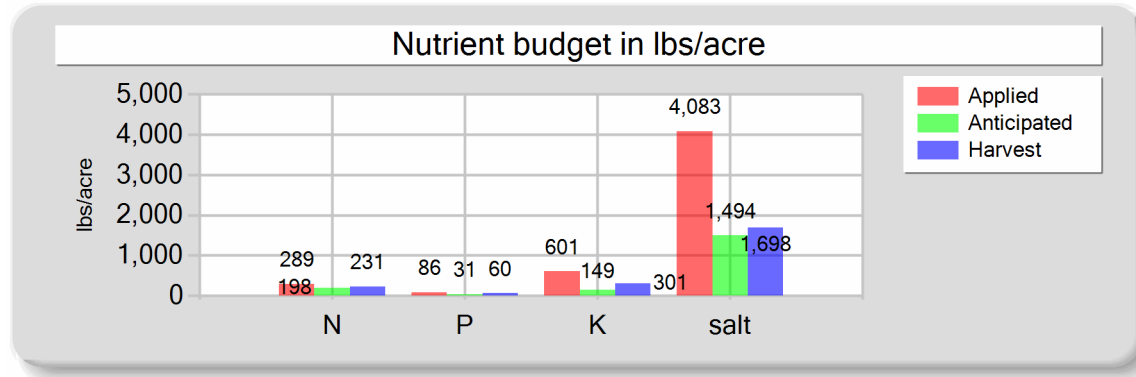
B. NUTRIENT BUDGET

3 - 11/17/2022: Wheat, silage, soft dough

Field name: 3

Crop: Wheat, silage, soft dough

Plant date: 11/17/2022



	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	41,566,350.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	1,530.75 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	10.63 inches/acre
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	282.29	85.68	600.68	3,986.17	Process wastewater applied
Fresh water	0.00	0.00	0.00	96.35	17,827,360.00 gallons
Atmospheric deposition	7.00	0.00	0.00	0.00	656.52 acre-inches
Total nutrients applied	289.29	85.68	600.68	4,082.52	4.56 inches/acre
Anticipated crop nutrient removal	198.00	30.60	149.40	1,494.00	
Actual crop nutrient removal	231.13	59.92	301.04	1,697.78	Total harvests for the crop
Nutrient balance	58.16	25.76	299.64	2,384.74	1 harvests
Applied to removed ratio	1.25	1.43	2.00	2.40	

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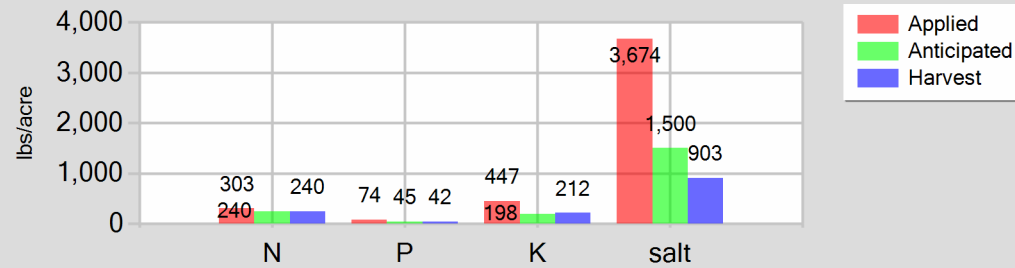
3 - 06/04/2023: Corn, silage

Field name: 3

Crop: Corn, silage

Plant date: 06/04/2023

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	0.00	0.00	0.00	0.00
Process wastewater	295.93	74.03	446.95	3,349.67
Fresh water	0.00	0.00	0.00	324.70
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	302.93	74.03	446.95	3,674.38
Anticipated crop nutrient removal	240.00	45.00	198.00	1,500.00
Actual crop nutrient removal	240.45	42.43	212.16	903.45
Nutrient balance	62.48	31.60	234.79	2,770.93
Applied to removed ratio	1.26	1.74	2.11	4.07

Fresh water applied
140,075,830.00 gallons
5,158.52 acre-inches
35.82 inches/acre
Process wastewater applied
17,101,020.00 gallons
629.77 acre-inches
4.37 inches/acre
Total harvests for the crop
1 harvests

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

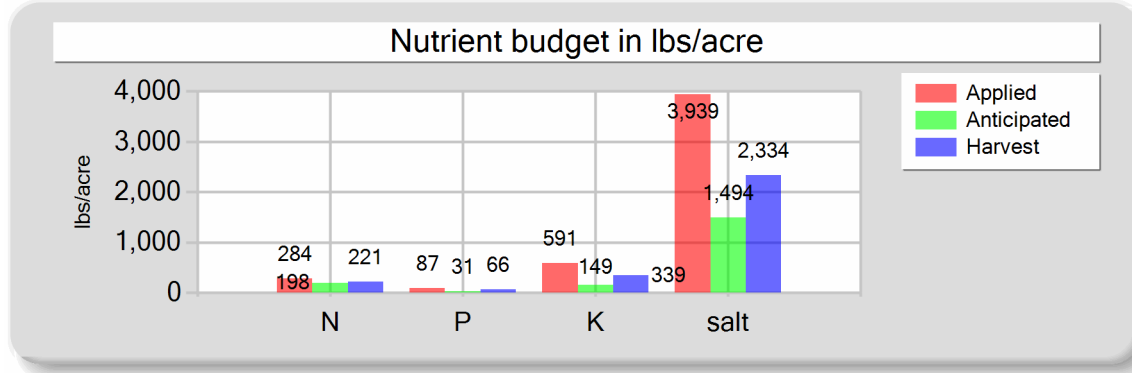
Reporting period 01/01/2023 to 12/31/2023.

4 - 11/18/2022: Wheat, silage, soft dough

Field name: 4

Crop: Wheat, silage, soft dough

Plant date: 11/18/2022



	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	277.15	86.82	590.75	3,847.63
Fresh water	0.00	0.00	0.00	91.29
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	284.15	86.82	590.75	3,938.92
Anticipated crop nutrient removal	198.00	30.60	149.40	1,494.00
Actual crop nutrient removal	220.56	65.88	339.43	2,334.49
Nutrient balance	63.59	20.94	251.32	1,604.43
Applied to removed ratio	1.29	1.32	1.74	1.69

Fresh water applied
21,605,250.00 gallons
795.65 acre-inches
10.07 inches/acre

Process wastewater applied
9,672,945.00 gallons
356.22 acre-inches
4.51 inches/acre

Total harvests for the crop
1 harvests

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

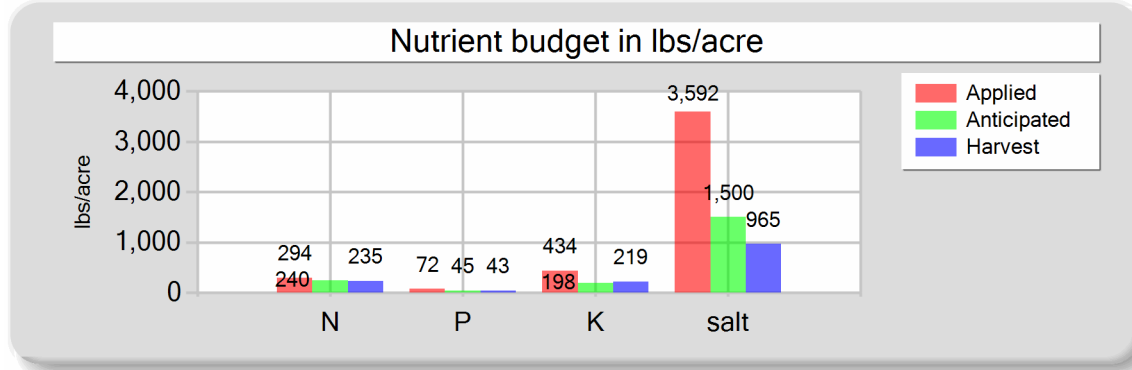
Reporting period 01/01/2023 to 12/31/2023.

4 - 06/04/2023: Corn, silage

Field name: 4

Crop: Corn, silage

Plant date: 06/04/2023



	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	287.34	71.85	433.82	3,251.24
Fresh water	0.00	0.00	0.00	340.83
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	294.34	71.85	433.82	3,592.07
Anticipated crop nutrient removal	240.00	45.00	198.00	1,500.00
Actual crop nutrient removal	235.45	42.81	219.40	964.98
Nutrient balance	58.90	29.05	214.42	2,627.08
Applied to removed ratio	1.25	1.68	1.98	3.72

Fresh water applied
80,662,985.00 <i>gallons</i>
2,970.54 <i>acre-inches</i>
37.60 <i>inches/acre</i>

Process wastewater applied
9,106,110.00 <i>gallons</i>
335.35 <i>acre-inches</i>
4.24 <i>inches/acre</i>

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

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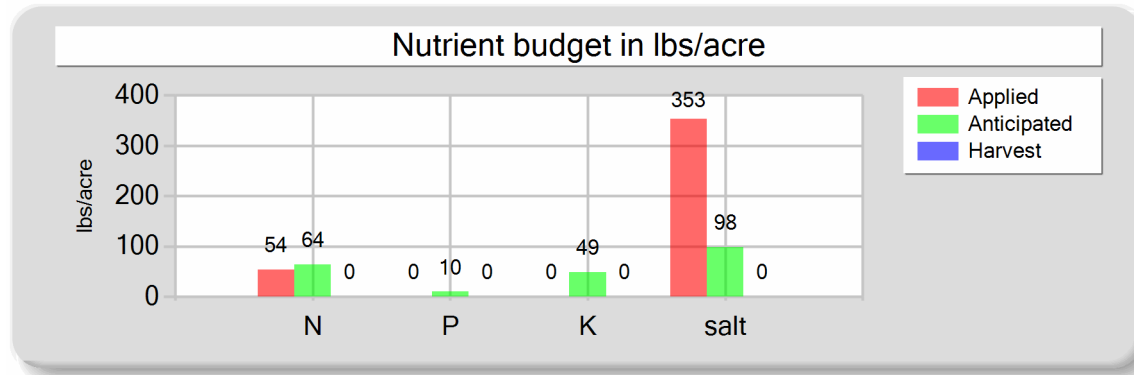
Reporting period 01/01/2023 to 12/31/2023.

5 - 05/15/2020: Almond, in shell

Field name: 5

Crop: Almond, in shell

Plant date: 05/15/2020



	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	131,316,744.00 <i>gallons</i>
Plowdown credit	0.00	0.00	0.00	0.00	4,835.95 <i>acre-inches</i>
Commercial fertilizer / Other	40.00	0.00	0.00	0.00	39.00 <i>inches/acre</i>
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	0.00	0.00	0.00	353.50	
Atmospheric deposition	14.00	0.00	0.00	0.00	
Total nutrients applied	54.00	0.00	0.00	353.50	
Anticipated crop nutrient removal	63.70	9.80	49.00	98.00	
Actual crop nutrient removal	0.00	0.00	0.00	0.00	
Nutrient balance	54.00	0.00	0.00	353.50	
Applied to removed ratio	0.00	0.00	0.00	0.00	
					Process wastewater applied
					0.00 <i>gallons</i>
					0.00 <i>acre-inches</i>
					0.00 <i>inches/acre</i>
					Total harvests for the crop
					1 <i>harvests</i>

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

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

NUTRIENT ANALYSES

A. MANURE ANALYSES

Manure

Sample and source description: Manure

Sample date: 05/01/2023 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 17.3 %

	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	20,700.00	5,400.00	2,200.00							
DL	100.00	200.00	200.00							

Manure

Sample and source description: Manure

Sample date: 10/05/2023 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 4.8 %

	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	25,000.00	12,000.00	22,500.00							
DL	100.00	200.00	200.00							

B. PROCESS WASTEWATER ANALYSES

Lagoon

Sample and source description: Lagoon

Sample date: 11/30/2022 Material type: Process wastewater Source of analysis: Lab analysis pH: _____

	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	165.00	148.00	0.00	0.00	77.50	377.00								5,960.00	3,960
DL	10.00	2.00	0.10	0.10	0.20	0.50								100.00	10

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

Lagoon

Sample and source description: LagoonSample date: 02/22/2023 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	435.00	354.00		2.00	59.80	869.00								7,660.00	5,080
DL	10.00	2.00		2.00	0.20	0.50								100.00	10

Lagoon

Sample and source description: LagoonSample date: 05/01/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: _____

	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	330.00	329.00			121.00	713.00								3,410.00	2,260
DL	10.00	2.00			0.20	0.50								100.00	10

Lagoon

Sample and source description: LagoonSample date: 08/04/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: _____

	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	298.00	280.00			74.70	451.00								5,090.00	3,380
DL	10.00	2.00			0.20	0.50								100.00	10

Lagoon

Sample and source description: LagoonSample date: 11/08/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: _____

	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	307.00	301.00			76.40	387.00								4,710.00	3,130
DL	10.00	2.00			0.20	0.50								100.00	10

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

C. FRESH WATER ANALYSES

IW3

Irrigation well

Sample description: Irrigation well

Sample date: 12/06/2023 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		0.00	2.00	0.00	80.00	120.00	20.00	3.50	36.00	379.00	220
DL	0.50		0.10	1.00	1.00	1.00	10.00	10.00	0.17	1.00	1.00	20

Peoples Tulare ID

Canal water

Sample description: Canal water

Sample date: 06/23/2023 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		0.00								43.00	40
DL	0.50		0.40								1.00	20

D. SOIL ANALYSES

No soil analyses entered.

E. PLANT TISSUE ANALYSES

3 - 11/17/2022: Wheat, silage, soft dough

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

3 - 11/17/2022: Wheat, silage, soft dough**Wheat**Sample and source description: WheatSample date: 05/29/2023 Source of analysis: Lab analysis Method of reporting: Dry-weightMoisture: 64.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	16,200.00	4,200.00	21,100.00		11.90
DL	500.00	200.00	200.00		0.05

3 - 06/04/2023: Corn, silage**Corn**Sample and source description: CornSample date: 09/14/2023 Source of analysis: Lab analysis Method of reporting: Dry-weightMoisture: 68.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	13,600.00	2,400.00	12,000.00		5.11
DL	500.00	200.00	200.00		0.05

4 - 11/18/2022: Wheat, silage, soft dough**Wheat**Sample and source description: WheatSample date: 05/29/2023 Source of analysis: Lab analysis Method of reporting: Dry-weightMoisture: 65.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	15,400.00	4,600.00	23,700.00		16.30
DL	500.00	200.00	200.00		0.05

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4 - 06/04/2023: Corn, silage

CornSample and source description: CornSample date: 09/14/2023 Source of analysis: Lab analysis Method of reporting: Dry-weightMoisture: 68.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	13,200.00	2,400.00	12,300.00		5.41
DL	500.00	200.00	200.00		0.05

F. SUBSURFACE (TILE) DRAINAGE ANALYSES*No subsurface (tile) drainage analyses entered.*

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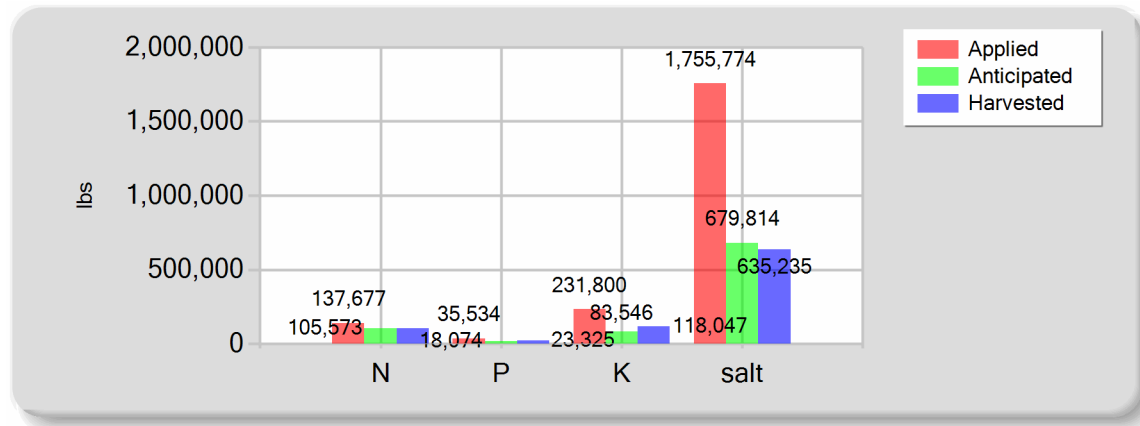
Reporting period 01/01/2023 to 12/31/2023.

NUTRIENT APPLICATIONS, POTENTIAL REMOVAL, AND BALANCE

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

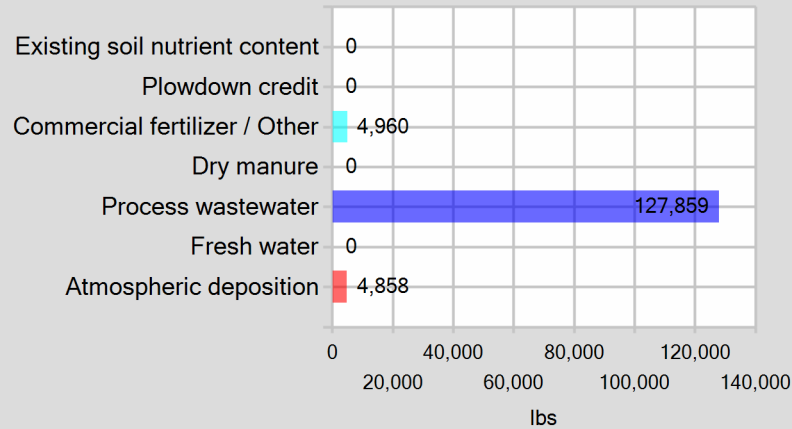
	Total N (lbs)	Total P (lbs)	Total K (lbs)	Total salt (lbs)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	4,960.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	127,858.77	35,533.71	231,799.69	1,617,171.64
Fresh water	0.00	0.00	0.00	138,602.83
Atmospheric deposition	4,858.00	0.00	0.00	0.00
Total nutrients applied	137,676.77	35,533.71	231,799.69	1,755,774.46
Anticipated crop nutrient removal	105,572.80	18,074.00	83,546.20	679,814.00
Actual crop nutrient removal	103,931.37	23,325.46	118,047.48	635,235.36
Nutrient balance	33,745.40	12,208.25	113,752.22	1,120,539.10
Applied to removed ratio	1.32	1.52	1.96	2.76

B. POUNDS OF NUTRIENT APPLIED VS. CROP REMOVAL

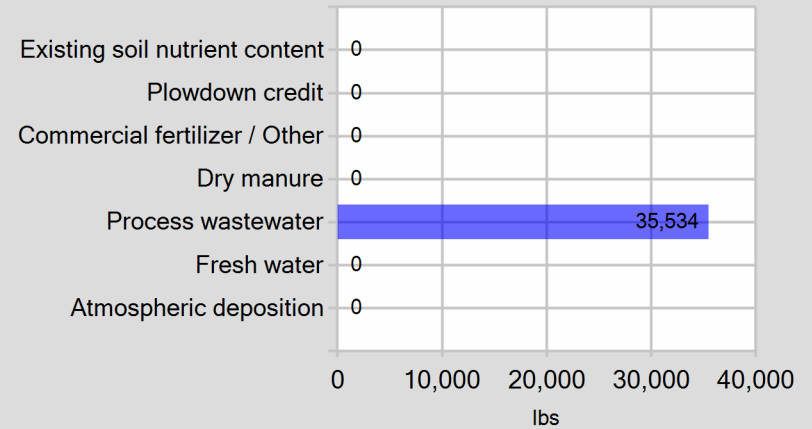


C. POUNDS OF NUTRIENT APPLIED BY MATERIAL TYPE

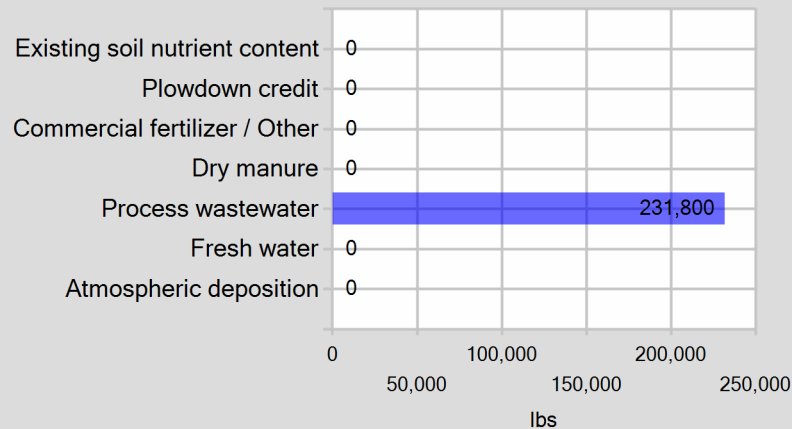
Pounds of nitrogen applied



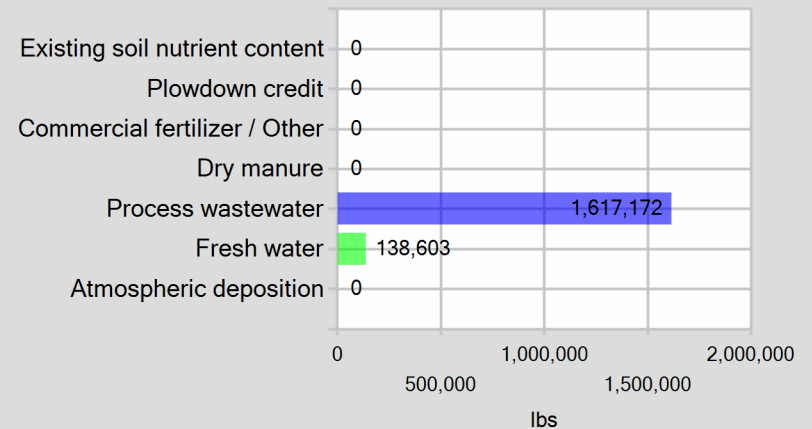
Pounds of phosphorus applied



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

~ Irr Well #1, Irr well #6, Irr well #7, S.E Irr well, N.E Irr well, Barn well West, and Barn well East were Out of Service in 2023.

Field 5 had no harvest because of young non bearing trees.

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

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

ANNUAL REPORT VALIDATION INFORMATION

A. VALIDATION ERRORS

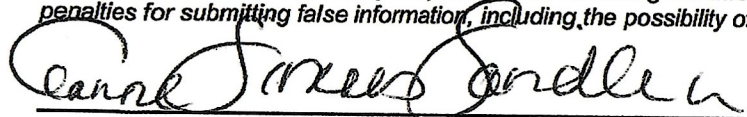
The following sections contain validation errors and should be reviewed before submitting the Annual Report :

1. Harvest Events

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.



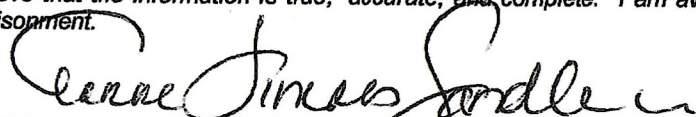
SIGNATURE OF OWNER OF FACILITY

Leanne Simoes Sandlin

PRINT OR TYPE NAME



DATE



SIGNATURE OF OPERATOR OF FACILITY

SAME AS OWNER

PRINT OR TYPE NAME



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.

July 11, 2023

Sentry Ag Services
 Attn: Monique Baldiviez
 P.O. Box 7750
 Visalia, CA 93290

Lab No. : VI 2344183
Customer No. : 4019696
Reference : 3046

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
Peoples Tulare I.D.	06/23/2023	06/23/2023	VI 2344183-001	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

EPA 351.2	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-H+B	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)

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: 2023-07-11

July 11, 2023

Sentry Ag Services

Attn: Monique Baldiviez
 P.O. Box 7750
 Visalia, CA 93290

Description : Peoples Tulare I.D.
 Project : Peoples Tulare I.D.

Lab No. : VI 2344183-001
 Customer No. : 4019696
 Reference : 3046
 Sampled On : June 23, 2023 at 09:15
 Sampled By : Klay
 Received On : June 23, 2023 at 10:28
 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
Nitrogen, Total Kjeldahl	ND	0.5	mg/L		1	U	07/03/2023	12:54	sta	EPA 351.2	07/07/2023	19:23	lcr
Nitrate Nitrogen	ND	0.4	mg/L		1	U	06/28/2023	11:00	lfs	SM 4500-NO3 F	06/28/2023	12:18	lfs
Nitrogen, Total as Nitrogen	ND	0.5	mg/L		1	U	07/03/2023	12:54	sta	Calc.	07/07/2023	19:23	lcr
Nitrate + Nitrite as N	ND	0.4	mg/L		1	U	06/28/2023	11:00	lfs	SM 4500-NO3 F	06/28/2023	12:18	lfs
Kjeldahl Nitrogen	ND	0.5	mg/L		1	U	07/03/2023	12:54	sta	EPA 351.2	07/07/2023	19:23	lcr
Conductivity	43	1	umhos/cm		1		07/05/2023	14:10	amm	SM 4500-H+B	07/05/2023	21:54	sta
Solids, Total Dissolved (TDS)	40	20	mg/L		1		06/27/2023	12:45	ctl	SM 2540 C	06/28/2023	11:35	ctl

DQF Flags Definition:

U Constituent results were non-detect.

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

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
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 Visalia, CA 93291
 TEL: (559)734-9473
 FAX: (559)734-8435
 CA ELAP Certification No. 2810

July 11, 2023
Sentry Ag Service

Lab No. : VI 2344183
Customer No. : 4019696

Quality Control - Wet Chem

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Wet Chem								
E. C.	2320B	(VI 2344352-001)	Dup	umhos/cm		0.6%	5	
Solids, Total Dissolved	2540CE	06/27/2023:207083CTL (STK2338352-001) (STK2338352-001)	Blank	mg/L	993.7	ND	<20	
			LCS	mg/L		101%	90-110	
			Dup	mg/L		3.55%	5	
			Dup	mg/L		4.96%	5	
Nitrogen, Total Kjeldahl	351.2	07/03/2023:207257STA (VI 2343914-005) (VI 2343914-006)	Blank	mg/L	12.00	ND	<0.5	
			LCS	mg/L		102%	73-124	
			MS	mg/L		89.5%	54-136	
			MSD	mg/L		96.2%	54-136	
			MSRPD	mg/L		6.8%	≤27	
			MS	mg/L		97.0%	54-136	
			MSD	mg/L		98.6%	54-136	
			MSRPD	mg/L		1.6%	≤27	
Nitrate + Nitrite as N	4500NO3F	06/28/2023:207139LFS (SP 2310989-001)	Blank	mg/L	11.22	ND	<0.4	
			LCS	mg/L		98.6%	80-120	
			MS	mg/L		98.8%	66-125	
			MSD	mg/L		98.1%	66-125	
			MSRPD	mg/L		0.6%	≤30.4	
Nitrate Nitrogen	4500NO3F	06/28/2023:207139LFS (SP 2310989-001)	Blank	mg/L	11.22	ND	<0.4	
			LCS	mg/L		98.6%	80-120	
			MS	mg/L		98.8%	66-125	
			MSD	mg/L		98.1%	66-125	
			MSRPD	mg/L		0.6%	≤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 analyte. 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.

Laboratory Analysis Work Order

234183

3046

SITE NAME:

Peoples Temple I.O.

Billing: Sentry Ag Services, LLC

P.O. Box 7750, Visalia, CA 93290

labs@sentryagsservices.com

Authorized Copy Release to:

LABORATORY: VT

4

ANALYSIS TO BE COMPLETED

Irrigation/Ground Water (ELAP Standards)

W4 EC, NO₃N (Dom)

W2 EC, NO₃N, TDS, TN (IT)

3A NH₄-N (Ammonium)

W4 EC, NO₃N, Ca, Mg, N

WS EC, NO₃N, TDS, TN, Ca, Mg, Na, HCO₃, CO₃, SO₄S, Cl (lr, GM)

W6 NO₃N, NO₂ (Dom ILRP, Annually)

W7 Ca, Mg, Na, K, HCO₃, CO₃, SO₄, Cl + Lab Filtering (GWM)

Other: W8

Plant Tissue

P1 TN, NO₃N, PO₄P, K (Mid Season - Wheat)

P2 TN, P, K (Mid-season - Corn)

P3 TN, TP, TK, Ash, %M (At Harvest)

P4 TN.%M

PS % Moisture

BS
NIP

FB NIK

Soil

S1 SP%, pH, EC, Ca, Mg, Na, K, ESP, LP, B, NO₃-N,

PO,P,K-AA,Zn,Mn,Fe,Cu,SO,S

S2 S1 + CEC C2C03 OM C:N TN

2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 2680, 2681, 2682, 2683, 2684, 2685, 2686, 2687, 2688, 26

SEASON

S4 Other:

Sample ID	Description	Analysis	Date/Time	Sampled by	NH ₃ -N *	pH	Temp
1 Peoples (Lake #1)	Canal	W2	6/27/13 7:15	Klam	-		
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							

* Field Test of ammonium nitrogen may only be made by a trained technician. Positive test to be analyzed for ammonium nitrogen by the laboratory.

NOTES:

CHAIN OF CUSTODY RECORDING

Signature

Signature	Company
-----------	---------

Signature	Company	Received Date & Time
-----------	---------	----------------------

Signature	Company	Received Date & Time	Relinquished Date & Time
-----------	---------	----------------------	--------------------------

LABORATORY USE ONLY

Total Samples:

Laboratory No.:

102
7-7

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 # OTC

2. Were samples received in a chilled condition? Temps: 6.6° ROT / / /

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? | <input checked="" type="radio"/> Yes | <input type="radio"/> No | N/A |
| 4. Were samples received intact? (i.e. no broken bottles, leaks etc.) | <input checked="" type="radio"/> Yes | <input type="radio"/> No | |
| 5. VOAs checked for Headspace? | <input type="radio"/> Yes | <input type="radio"/> No | <input checked="" type="radio"/> N/A |
| 6. Were sample custody seals intact? | <input type="radio"/> Yes | <input type="radio"/> No | <input checked="" type="radio"/> N/A |
| 7. If required, was sample split for pH analysis? | <input type="radio"/> Yes | <input type="radio"/> No | <input checked="" type="radio"/> N/A |
| 8. Were all analyses within holding times at time of receipt? | <input checked="" type="radio"/> Yes | <input type="radio"/> No | |
| 9. Verify sample date, time and sampler name | <input checked="" type="radio"/> Yes | <input type="radio"/> 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): COB

Sample Receipt at SP:

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

2. Shipping tracking numbers:

559648785 / 7 / 56 / 64 / 75

- | | | | |
|---|--------------------------------------|--------------------------|--------------------------------------|
| 3. Do the number of bottles received agree with the COC? | <input checked="" type="radio"/> Yes | <input type="radio"/> No | N/A |
| 4. Were samples received intact? (i.e. no broken bottles, leaks etc.) | <input checked="" type="radio"/> Yes | <input type="radio"/> No | |
| 5. Were sample custody seals intact? | <input type="radio"/> Yes | <input type="radio"/> No | <input checked="" type="radio"/> 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? | <input checked="" type="radio"/> Yes | <input type="radio"/> No | |
| 2. Did bottle labels correspond with the client's ID's? | <input checked="" type="radio"/> Yes | <input type="radio"/> No | |
| 3. Were all bottles requiring sample preservation properly preserved?
<small>[Exception: Oil & Grease, VOA and CrVI verified in lab]</small> | <input checked="" type="radio"/> Yes | <input type="radio"/> No | N/A FGL |
| 4. VOAs checked for Headspace? | <input type="radio"/> Yes | <input type="radio"/> No | <input checked="" type="radio"/> N/A |
| 5. Have rush or project due dates been checked and accepted? | <input type="radio"/> Yes | <input type="radio"/> No | <input checked="" type="radio"/> N/A |
| 6. Were all analyses within holding times at time of receipt? | <input checked="" type="radio"/> Yes | <input type="radio"/> No | |

Attach labels to the containers and include a copy of the COC for lab delivery.

Sample Receipt, Login and Verification completed by (initials): COB

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 additional c contacts)



January 2, 2024

Sentry Ag Services
 Attn: Monique Baldiviez
 P.O. Box 7750
 Visalia, CA 93290

Lab No. : VI 2348249
Customer No. : 4019696
Reference : 3469

Laboratory Report

Introduction: This report package contains a total of 5 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	(3 pages)	: 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
IW3	12/06/2023	12/06/2023	VI 2348249-001	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

EPA 200.7	Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573)
EPA 300.0	Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573)
EPA 351.2	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-H+B	Preparation and analysis performed by FGL-Santa Paula (FGL-SP ELAP# 1573)

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: 2024-01-02

January 2, 2024

Sentry Ag Services

Attn: Monique Baldiviez

P.O. Box 7750

Visalia, CA 93290

Description : IW3

Project : Simoes Sandlin

Lab No. : VI 2348249-001

Customer No. : 4019696

Reference : 3469

Sampled On : December 6, 2023 at 11:00

Sampled By : Brandon

Received On : December 6, 2023 at 12:47

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
Alkalinity (as CaCO ₃)	120	10	mg/L		1		12/09/2023	15:04	amm	SM 4500-H+B	12/09/2023	20:52	amm
Bicarbonate	120	10	mg/L		1		12/09/2023	15:04	amm	SM 4500-H+B	12/09/2023	20:52	amm
Carbonate	20	10	mg/L		1		12/09/2023	15:04	amm	SM 4500-H+B	12/09/2023	20:52	amm
Hydroxide	20	10	mg/L		1		12/09/2023	15:04	amm	SM 4500-H+B	12/09/2023	20:52	amm
Chloride	36	1	mg/L		1		12/07/2023	11:23	ldm	EPA 300.0	12/08/2023	10:38	ldm
Nitrogen, Total Kjeldahl	ND	0.5	mg/L		1	UI	12/19/2023	05:12	lcr	EPA 351.2	12/23/2023	19:32	lcr
Nitrate Nitrogen	ND	0.1	mg/L		1	J	12/07/2023	11:23	ldm	EPA 300.0	12/08/2023	10:38	ldm
Nitrogen, Total as Nitrogen	ND	0.5	mg/L		1	UIJ	12/19/2023	05:12	lcr	Calc.	12/23/2023	19:32	lcr
Nitrate + Nitrite as N	ND	0.1	mg/L		1	J	12/07/2023	11:23	ldm	EPA 300.0	12/08/2023	10:38	ldm
Kjeldahl Nitrogen	ND	0.5	mg/L		1	UI	12/19/2023	05:12	lcr	EPA 351.2	12/23/2023	19:32	lcr
Conductivity	379	1	umhos/cm		1		12/09/2023	15:04	amm	SM 4500-H+B	12/09/2023	20:52	amm
Sulfate Sulfur	3.50	0.17	mg/L		1		12/07/2023	11:23	ldm	EPA 300.0	12/08/2023	10:38	ldm
Solids, Total Dissolved (TDS)	220	20	mg/L		1		12/08/2023	10:14	ctl	SM 2540 C	12/11/2023	11:30	ctl
Calcium	2	1	mg/L		1		12/13/2023	03:55	ejc	EPA 200.7	12/13/2023	12:04	ac
Magnesium	ND	1	mg/L		1	U	12/13/2023	03:55	ejc	EPA 200.7	12/13/2023	12:04	ac
Sodium	80	1	mg/L		1		12/13/2023	03:55	ejc	EPA 200.7	12/13/2023	12:04	ac

DQF Flags Definition:

- U Constituent results were non-detect.
- I The MS/MSD did not meet QC criteria.
- J Reported value is estimated; detected at a concentration below the RL and above the laboratory MDL.

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

Corporate Offices & Laboratory

853 Corporation Street
 Santa Paula, CA 93060
 TEL: (805)392-2000
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 Chico, CA 95926
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 CA ELAP Certification No. 2670

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 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

January 2, 2024
Sentry Ag Service

Lab No. : VI 2348249
Customer No. : 4019696

Quality Control - Metals

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Metals Calcium	200.7	12/13/2023:214008EJC	Blank	mg/L		ND	<1	
			LCS	mg/L	12.00	93.6%	85-115	
			MS	mg/L	12.00	96.1%	75-125	
		(CH 2390218-003)	MSD	mg/L	12.00	96.9%	75-125	
			MSRPD	mg/L		0.5%	≤20.0	
			MS	mg/L	12.00	93.0%	75-125	
		(CH 2390218-002)	MSD	mg/L	12.00	107%	75-125	
			MSRPD	mg/L		3.9%	≤20.0	
Magnesium	200.7	12/13/2023:214008EJC	Blank	mg/L		ND	<1	
			LCS	mg/L	12.00	94.0%	85-115	
			MS	mg/L	12.00	94.1%	75-125	
		(CH 2390218-003)	MSD	mg/L	12.00	93.6%	75-125	
			MSRPD	mg/L		0.4%	≤20	
			MS	mg/L	12.00	95.1%	75-125	
		(CH 2390218-002)	MSD	mg/L	12.00	99.7%	75-125	
			MSRPD	mg/L		2.8%	≤20	
Sodium	200.7	12/13/2023:214008EJC	Blank	mg/L		ND	<1	
			LCS	mg/L	12.00	92.3%	85-115	
			MS	mg/L	12.00	96.8%	75-125	
		(CH 2390218-003)	MSD	mg/L	12.00	97.1%	75-125	
			MSRPD	mg/L		0.2%	≤20.0	
			MS	mg/L	12.00	99.6%	75-125	
		(CH 2390218-002)	MSD	mg/L	12.00	106%	75-125	
			MSRPD	mg/L		3.6%	≤20.0	

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.

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 analyte. 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.

Quality Control - Wet Chem

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Wet Chem								
Alkalinity (as CaCO ₃)	2320B	(STK2356553-007)	Dup	mg/L		0.2%	10	
Bicarbonate	2320B	(STK2356553-007)	Dup	mg/L		0.2%	10	
E. C.	2320B	(STK2356553-007)	Dup	umhos/cm		0.06%	5	
Solids, Total Dissolved	2540CE	12/08/2023:213823CTL (CC 2384328-001) (CC 2384328-001)	Blank	mg/L		ND	<20	
			LCS	mg/L	991.5	97.7%	90-110	
			Dup	mg/L		2.91%	5	
			Dup	mg/L		0.2%	5	
Chloride	300.0	12/07/2023:213946LDM (CH 2373985-001) (VI 2348252-001)	Blank	mg/L		ND	<1	
			LCS	mg/L	25.00	98.5%	90-110	
			MS	mg/L	50.00	102%	67-117	
			MSD	mg/L	50.00	102%	67-117	
			MSRPD	mg/L		0.0%	≤7	
			MS	mg/L	50.00	100%	67-117	
			MSD	mg/L	50.00	101%	67-117	
			MSRPD	mg/L		0.8%	≤7	
Nitrate + Nitrite as N	300.0	12/07/2023:213946LDM (CH 2373985-001) (VI 2348252-001)	Blank	mg/L		ND	<0.4	
			LCS	mg/L	20.00	96.6%	90-110	
			MS	mg/L	40.00	101%	86-112	
			MSD	mg/L	40.00	101%	86-112	
			MSRPD	mg/L		0.1%	≤7	
			MS	mg/L	40.00	101%	86-112	
			MSD	mg/L	40.00	102%	86-112	
			MSRPD	mg/L		0.9%	≤7	
Nitrate Nitrogen	300.0	12/07/2023:213946LDM (CH 2373985-001) (VI 2348252-001)	Blank	mg/L		ND	<0.4	
			LCS	mg/L	20.00	96.6%	90-110	
			MS	mg/L	40.00	101%	86-112	
			MSD	mg/L	40.00	101%	86-112	
			MSRPD	mg/L		0.1%	≤7	
			MS	mg/L	40.00	101%	86-112	
			MSD	mg/L	40.00	102%	86-112	
			MSRPD	mg/L		0.9%	≤7	
Sulfate Sulfur	300.0	12/07/2023:213946LDM (CH 2373985-001) (VI 2348252-001)	Blank	mg/L		ND	<0.5	
			LCS	mg/L	50.00	99.8%	90-110	
			MS	mg/L	100.0	103%	18-165	
			MSD	mg/L	100.0	103%	18-165	
			MSRPD	mg/L		0.1%	≤7	
			MS	mg/L	100.0	102%	18-165	
			MSD	mg/L	100.0	103%	18-165	
			MSRPD	mg/L		1.0%	≤7	
Nitrogen, Total Kjeldahl	351.2	12/19/2023:214307LCR (CH 2390336-007) (CH 2390336-010)	Blank	mg/L		ND	<0.5	
			LCS	mg/L	12.00	97.5%	73-124	
			MS	mg/L	12.00	90.1%	90-110	
			MSD	mg/L	12.00	93.8%	90-110	
			MSRPD	mg/L		4.0%	≤20	
			MS	mg/L	12.00	89.3%	90-110	435
			MSD	mg/L	12.00	88.8%	90-110	435
			MSRPD	mg/L		0.6%	≤20	

Definition

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

Explanation

435	: Sample matrix may be affecting this analyte. Data was accepted based on the LCS or CCV recovery.
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Laboratory Analysis Work Order

2348249

3469

SITE NAME: Simoes Sandlin

LABORATORY: VT | FGL 4-19696

Billing: Sentry Ag Services, LLC
P.O. Box 7750, Visalia, CA 93290

Authorized Copy Release to:
labs@sentryagservices.com

ANALYSIS TO BE COMPLETED

Irrigation/Ground Water (ELAP Standards)

- W1 EC, NO₃N (Dom)
- W2 EC, NO₃N, TDS, TN (Irr)
- W3 NH₄-N (Ammonium)
- W4 EC, NO₃N, Ca, Mg, Na, HCO₃, CO₃, SO₄S, Cl, TDS (Dom, GM)
- W5 EC, NO₃N, TDS, TN, Ca, Mg, Na, HCO₃, CO₃, SO₄S, Cl (Irr, GM) *7.8°C R₂H*
- W6 NO₃N, NO₂ (Dom ILRP, Annually)
- W7 Ca, Mg, Na, K, HCO₃, CO₃, SO₄, Cl + Lab Filtering (GWM) *T#407*
- W8 Other: _____

Plant Tissue

- P1 TN, NO₃N, PO₄P, K (Mid Season - Wheat)
- P2 TN, P, K (Mid-season - Corn)
- P3 TN, TP, TK, Ash, %M (At Harvest)
- P4 TN, %M
- P5 % Moisture
- P6 NIR
- P7 Other: _____

Process Waste Water (lagoon)

- L1 EC, NH₄N, TKN, TP, TK, TDS (Quarterly)
- L2 EC, NO₃N, NH₄N, TKN, TP, TK, TDS, pH (Annually)
- L3 Ca, Mg, Na, HCO₃, CO₃, SO₄S, Cl (Biennially)
- L4 Other: _____

Manure

- M1 TN, TP, TK, %M (2/year)
- M2 TN, TP, K, %M, Ca, Mg, Na, S, Cl, ash (Biennially)
- M3 Other: _____

Soil

- S1 SP%, pH, EC, Ca, Mg, Na, K, ESP, LP, B, NO₃N, PO₄P, K-AA, Zn, Mn, Fe, Cu, SO₄S
- S2 S1 + CEC, CaCO₃, OM, C:N, TN
- S3 NO₃N, NH₄N
- S4 Other: _____

	Sample ID	Description	Analysis	Date/Time	Sampled by	SAS USE ONLY: FIELD TESTS		
						NH ₃ N*	pH	Temp
1	<u>IW 3</u>	<u>irrigation</u>	<u>W5</u>	<u>12/6/23 11:00</u>	<u>Brandon</u>	<u>+</u>		
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								

* Field Test of ammonium nitrogen may only be made by a trained technician. Positive test to be analyzed for ammonium nitrogen by the laboratory.

All samples are to follow the procedures noted in the Sampling & Analysis Plan of the NMP and the RWQCB specifications. Any samples taken outside of these procedures shall provide the procedures on the notes below. Additionally, if any preservatives are used in the collections or processing of samples, please note below.

NOTES:

CHAIN OF CUSTODY RECORDING

	Signature	Company	Received Date & Time	Relinquished Date & Time
1 st	<u>[Signature]</u>	<u>SAS</u>		<u>12/6/23 12:48</u>
2 nd	<u>ASB</u>	<u>FGL</u>	<u>12/6/23 1247</u>	
3 rd	<u>ASB</u>	<u>FGL</u>		<u>12/6/23 1730</u>
4 th	<u>CLS</u>	<u>CLS</u>	<u>12/6/23 1730</u>	

LABORATORY USE ONLY

Logged In By: _____ Total Samples: _____ Laboratory No. 12/6/23 10:50

Inter-Laboratory Condition Upon Receipt (Attach to COC)

Sample Receipt at: CC CH STK ☒ VI

1. Number of ice chests/packages received: 1 Shipping tracking #(s): OTC

2. Temp IR Gun ID #: TA407

3. Were samples received on ice? ☒ Yes ☐ No Temps: 7.8°C / / /
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.

4. Do the number of bottles received agree with the COC? ☒ Yes ☐ No ☐ N/A

5. Were samples received intact? (i.e. no broken bottles, leaks etc.) ☒ Yes ☐ No

6. VOAs checked for Headspace? ☒ Yes ☐ No ☒ N/A

7. Were all analyses within holding times at time of receipt? ☒ Yes ☐ No

8. 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): AB

Sample Receipt at SP:

1. Number of ice chests/packages received: 6 Shipping tracking #(s): 520517041, 520517413
520517041, 520517413, 520517413, 520517413

2. Temp IR Gun ID #: 764

3. Were samples received on ice? ☒ Yes ☐ No Temps: 1 / 1 / 1 / 1 / 1 / 1
Acceptable is above freezing to 6°C. If many packages are received at one time check for tests/H.T.'s/rushes/

4. Do the number of bottles received agree with the COC? ☒ Yes ☐ No ☐ N/A

5. Were samples received intact? (i.e. no broken bottles, leaks etc.) ☒ Yes ☐ No

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? ☒ Yes ☐ No ☐ N/A ☐ FGL
[Exception: Oil & Grease, VOA and CrVI verified in lab]

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): JL

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: _____ Phone Number: _____

Initiated By: _____ Date: _____

Problem: _____

Resolution: _____