

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: Oakview Dairy

Physical address of dairy:

6775 232 AVE
Number and StreetTulare
CityTulare
County93274
Zip Code

Street and nearest cross street (if no address):

Date facility was originally placed in operation: 01/01/1990Regional Water Quality Control Board Basin Plan designation: Tulare Basin

County Assessor Parcel Number(s) for dairy facility:

X158-X090-X036-XXXX

B. OPERATORS

Koetsier, Edwin

Operator name: Koetsier, EdwinTelephone no.: (559) 685-1580

Landline Cellular

6775 232 AVE

Tulare
CityCA
State93274
Zip Code

Mailing Address Number and Street

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

Koetsier, Edwin

Legal owner name: Koetsier, EdwinTelephone no.: (559) 685-1580

Landline Cellular

6775 232 AVE

Tulare
CityCA
State93274
Zip Code

Mailing Address Number and Street

This owner is responsible for paying permit fees.

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AVAILABLE NUTRIENTS

A. HERD INFORMATION

	Milk Cows	Dry Cows	Bred Heifers (15-24 mo.)	Heifers (7-14 mo. to breeding)	Calves (4-6 mo.)	Calves (0-3 mo.)
Number open confinement	0	64	193	0	0	0
Number under roof	1,347	0	0	0	0	0
Maximum number	1,364	77	205	0	0	0
Average number	1,347	64	193	0	0	0
Avg live weight (lbs)	1,400	1,450	1,000	0		

Predominant milk cow breed: Holstein

Average milk production: 75 pounds per cow per day

B. MANURE GENERATED

Total manure excreted by the herd: 38,300.43 tons per reporting period

Total nitrogen from manure: 492,087.28 lbs per reporting period

After ammonia losses (30% loss applied): 344,461.10 lbs per reporting period

Total phosphorus from manure: 83,021.33 lbs per reporting period

Total potassium from manure: 262,387.82 lbs per reporting period

Total salt from manure: 648,951.75 lbs per reporting period

C. PROCESS WASTEWATER GENERATED

Process wastewater generated: 44,832,925 gallons

Total nitrogen generated: 168,165.96 lbs

Total phosphorus generated: 29,186.28 lbs

Total potassium generated: 278,411.85 lbs

Total salt generated: 1,697,643.91 lbs

44,832,925 gallons applied
+ 0 gallons exported
- 0 gallons imported
= 44,832,925 gallons generated

D. FRESH WATER SOURCES

Source Description	Type
D1	Ground water
Dairy N	Ground water
Dairy S	Ground water
Dom MR	Ground water
IW1	Ground water

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Source Description	Type
IW11	Ground water
IW12	Ground water
IW15	Ground water
IW2	Ground water
IW3	Ground water
IW4	Ground water
IW5	Ground water
IW6	Ground water
IW7	Ground water
IW8	Ground water
IW9	Ground water
IWMR	Ground water
RD1	Ground water
Tulare ID	Surface 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 (%)
11/30/2023	Corral solids	4,915.00 <i>ton</i>	Dry-weight	45.7		23,100.00	6,600.00	20,200.00		0.00

No liquid nutrient exports entered.

Material type	Total N (lbs)	Total P (lbs)	Total K (lbs)	Total salt (lbs)
Dry manure	123,300.64	35,228.75	107,821.34	0.00
Process wastewater	0.00	0.00	0.00	0.00
Total exports for all materials	123,300.64	35,228.75	107,821.34	0.00

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Field name	Controlled acres	Cropable acres	Total harvests	Type of waste applied	Parcel number
1	90	90	2	process wastewater	X158-X090-X036-XXXX X158-X090-X037-XXXX
10	50	50	2	process wastewater	X160-X110-X010-XXXX
2	22	22	1	none	X158-X090-X035-XXXX
3	67	67	1	none	X160-X140-X004-XXXX
4	75	75	1	process wastewater	X160-X130-X010-XXXX
5	60	60	1	process wastewater	X160-X120-X001-XXXX
6	50	50	2	process wastewater	X160-X120-X006-XXXX
7	40	40	1	process wastewater	X160-X110-X009-XXXX X160-X120-X006-XXXX
8	50	50	2	process wastewater	X160-X110-X009-XXXX X160-X120-X006-XXXX X160-X120-X007-XXXX
9	55	55	1	none	X160-X150-X009-XXXX X160-X150-X010-XXXX
Marys Ranch	15	15	1	process wastewater	X160-X150-X010-XXXX X160-X150-X012-XXXX
Totals for areas that were used for application	430	430	12		
Totals for areas that were not used for application	144	144	3		
Land application area totals	574	574	15		

B. CROPS AND HARVESTS

1

Field name: 1

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1

11/07/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 90 Plant date: 11/07/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/03/2023	1,680.00 ton	Dry-weight		69.1	15,400.00	3,500.00	13,500.00		10.30

	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	18.67	177.65	40.38	155.74	1,188.21

06/10/2023: Corn, silage

Crop: Corn, silage Acres planted: 90 Plant date: 06/10/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/22/2023	2,550.00 ton	Dry-weight		69.2	12,800.00	3,500.00	12,900.00		5.26

	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	223.40	61.09	225.15	918.05

10

Field name: 10

11/09/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 50 Plant date: 11/09/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/05/2023	970.00 ton	Dry-weight		68.9	13,600.00	3,500.00	13,800.00		9.30

	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	19.40	164.11	42.23	166.52	1,122.21

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10

06/02/2023: Corn, silage

Crop: Corn, silage Acres planted: 50 Plant date: 06/02/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/11/2023	1,390.00 ton	Dry-weight		67.5	11,800.00	3,100.00	14,800.00		6.30

	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	27.80	213.23	56.02	267.44	1,138.41

2

Field name: 2

10/10/2013: Pistachios

Crop: Pistachios Acres planted: 22 Plant date: 10/10/2013

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	52.00 ton	Dry-weight		23.0	22,300.00	3,200.00	17,600.00		7.89

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	2.30	167.90	16.56	115.00	460.00
Total actual harvest content	2.36	81.17	11.65	64.06	287.20

3

Field name: 3

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3

10/10/2013: Pistachios

Crop: Pistachios Acres planted: 67 Plant date: 10/10/2013

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	140.00 ton	Dry-weight		23.0	28,300.00	3,400.00	17,500.00		6.57

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	2.00	146.00	14.40	100.00	400.00
Total actual harvest content	2.09	91.07	10.94	56.31	211.42

4

Field name: 4

01/10/2023: Alfalfa, hay

Crop: Alfalfa, hay Acres planted: 75 Plant date: 01/10/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
11/14/2023	610.00 ton	Dry-weight		8.4	35,500.00	3,000.00	22,900.00		10.40

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	8.00	480.00	43.20	336.00	1,600.00
Total actual harvest content	8.13	528.96	44.70	341.22	1,549.63

5

Field name: 5

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5

04/28/2023: Corn, silage

Crop: Corn, silage

Acres planted: 60 Plant date: 04/28/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
08/08/2023	1,690.00 ton	Dry-weight		62.7	12,800.00	2,700.00	14,900.00		5.23

	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	28.17	268.96	56.73	313.08	1,098.95

6

Field name: 6

11/08/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough

Acres planted: 50 Plant date: 11/08/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/04/2023	975.00 ton	Dry-weight		65.8	14,200.00	3,300.00	12,500.00		9.41

	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	19.50	189.40	44.02	166.73	1,255.11

06/03/2023: Corn, silage

Crop: Corn, silage

Acres planted: 50 Plant date: 06/03/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/11/2023	1,420.00 ton	Dry-weight		67.0	11,900.00	3,100.00	10,900.00		4.96

	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	28.40	223.05	58.11	204.31	929.70

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7

Field name: 7

05/01/2023: Corn, silage

Crop: Corn, silage Acres planted: 40 Plant date: 05/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
08/09/2023	1,140.00 <i>ton</i>	Dry-weight		66.2	11,700.00	2,500.00	8,200.00		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	28.50	225.41	48.17	157.98	984.49

8

Field name: 8

11/08/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 50 Plant date: 11/08/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/04/2023	960.00 <i>ton</i>	Dry-weight		67.6	15,300.00	3,400.00	12,100.00		9.24

	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	19.20	190.36	42.30	150.54	1,149.60

06/12/2023: Corn, silage

Crop: Corn, silage Acres planted: 50 Plant date: 06/12/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/22/2023	1,430.00 <i>ton</i>	Dry-weight		64.2	11,800.00	3,000.00	10,700.00		5.73

	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	2,010.00
Total actual harvest content	28.60	241.64	61.43	219.11	1,173.37

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9

Field name: 9

04/29/2020: Alfalfa, hay

Crop: Alfalfa, hay Acres planted: 55 Plant date: 04/29/2020

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
11/14/2023	450.00 <i>ton</i>	Dry-weight		8.5	31,800.00	2,800.00	24,200.00		11.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	8.00	480.00	43.20	336.00	1,600.00
Total actual harvest content	8.18	476.13	41.92	362.34	1,647.00

Marys Ranch

Field name: Marys Ranch

01/04/2021: Alfalfa, hay

Crop: Alfalfa, hay Acres planted: 15 Plant date: 01/04/2021

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
11/14/2023	120.00 <i>ton</i>	Dry-weight		9.4	32,400.00	3,200.00	25,900.00		9.50

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	8.00	480.00	43.20	336.00	1,600.00
Total actual harvest content	8.00	469.67	46.39	375.45	1,377.12

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NUTRIENT BUDGET

A. LAND APPLICATIONS

1 - 11/07/2022: Wheat, silage, soft dough

Field name: 1

Crop: Wheat, silage, soft dough

Plant date: 11/07/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
10/19/2022	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	118.35	27.38	238.77	2,233.46	3,198,890.00 <i>gal</i>
IW15	Ground water	3.19	0.00	0.00	189.06	12,744,002.00 <i>gal</i>
Application event totals		121.54	27.38	238.77	2,422.52	
02/24/2023	Surface (irrigation)	No precipitation	No precipitation	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	113.27	17.19	194.57	1,072.78	2,395,400.00 <i>gal</i>
Tulare ID	Surface water	0.00	0.00	0.00	35.24	12,668,940.00 <i>gal</i>
Application event totals		113.27	17.19	194.57	1,108.02	

1 - 06/10/2023: Corn, silage

Field name: 1

Crop: Corn, silage

Plant date: 06/10/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following			
05/23/2023	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	87.40	14.36	138.13	512.99	2,049,110.00 <i>gal</i>
	Tulare ID	Surface water	0.00	0.00	0.00	34.06	12,245,400.00 <i>gal</i>
	Application event totals		87.40	14.36	138.13	547.06	

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1 - 06/10/2023: Corn, silage

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
Tulare ID	Surface water	0.00	0.00	0.00	38.05	13,678,800.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	38.05	
07/11/2023	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
Lagoon	Process wastewater	80.96	13.31	127.95	475.19	1,898,100.00 <i>gal</i>
Tulare ID	Surface water	0.00	0.00	0.00	35.57	12,786,410.00 <i>gal</i>
Application event totals		80.96	13.31	127.95	510.76	
07/22/2023	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	65.84	11.72	107.40	840.83	1,710,984.00 <i>gal</i>
Tulare ID	Surface water	0.00	0.00	0.00	35.26	12,674,300.00 <i>gal</i>
Application event totals		65.84	11.72	107.40	876.08	
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
IW15	Ground water	3.28	0.00	0.00	194.36	13,100,654.00 <i>gal</i>
Application event totals		3.28	0.00	0.00	194.36	
08/16/2023	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	50.44	8.98	82.29	644.18	1,310,840.00 <i>gal</i>
IW15	Ground water	3.20	0.00	0.00	189.88	12,798,941.00 <i>gal</i>
Application event totals		53.64	8.98	82.29	834.06	

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1 - 06/10/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
08/29/2023	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
IW15	Ground water	3.04	0.00	0.00	180.22	12,147,870.00 <i>gal</i>
Application event totals		3.04	0.00	0.00	180.22	

10 - 11/09/2022: Wheat, silage, soft dough

Field name: 10

Crop: Wheat, silage, soft dough

Plant date: 11/09/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
10/22/2022	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	80.41	18.60	162.24	1,517.56	1,207,520.00 <i>gal</i>
IW15	Ground water	2.75	0.00	0.00	163.12	6,108,400.00 <i>gal</i>
Application event totals		83.17	18.60	162.24	1,680.68	
01/28/2023	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	72.31	10.97	124.20	684.82	849,520.00 <i>gal</i>
Tulare ID	Surface water	0.00	0.00	0.00	30.54	6,100,400.00 <i>gal</i>
Application event totals		72.31	10.97	124.20	715.37	
03/29/2023	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	61.00	10.02	96.40	358.03	794,500.00 <i>gal</i>
Tulare ID	Surface water	0.00	0.00	0.00	30.07	6,004,984.00 <i>gal</i>
Application event totals		61.00	10.02	96.40	388.09	

10 - 06/02/2023: Corn, silage

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

10 - 06/02/2023: Corn, silage

Field name: 10

Crop: Corn, silage

Plant date: 06/02/2023

Application date	Application method	Precipitation 24 hours prior		Precipitation during application			Precipitation 24 hours following	
05/20/2023	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	90.63	14.90	143.24	531.97	1,180,500.00 <i>gal</i>	
Tulare ID		Surface water	0.00	0.00	0.00	37.55	7,498,820.00 <i>gal</i>	
Application event totals			90.63	14.90	143.24	569.52		
06/22/2023	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	
Tulare ID		Surface water	0.00	0.00	0.00	38.56	7,701,100.00 <i>gal</i>	
Application event totals			0.00	0.00	0.00	38.56		
07/04/2023	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	
Tulare ID		Surface water	0.00	0.00	0.00	37.88	7,565,487.00 <i>gal</i>	
Application event totals			0.00	0.00	0.00	37.88		
07/15/2023	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	
Lagoon		Process wastewater	101.93	18.15	166.28	1,301.78	1,471,650.00 <i>gal</i>	
Tulare ID		Surface water	0.00	0.00	0.00	34.09	6,808,700.00 <i>gal</i>	
Application event totals			101.93	18.15	166.28	1,335.87		
07/25/2023	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	
Tulare ID		Surface water	0.00	0.00	0.00	36.00	7,189,000.00 <i>gal</i>	
Application event totals			0.00	0.00	0.00	36.00		

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10 - 06/02/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
08/05/2023	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	Process wastewater	97.55	17.37	159.14	1,245.83	1,408,400.00 <i>gal</i>
Tulare ID	Surface water	0.00	0.00	0.00	34.57	6,904,540.00 <i>gal</i>
Application event totals		97.55	17.37	159.14	1,280.40	
08/17/2023	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
Tulare ID	Surface water	0.00	0.00	0.00	34.45	6,880,770.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	34.45	

2 - 10/10/2013: Pistachios

Field name: 2

Crop: Pistachios

Plant date: 10/10/2013

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
04/09/2023	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
Tulare ID	Surface water	0.00	0.00	0.00	20.39	1,792,164.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	20.39	
05/09/2023	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
UN 32	Liquid commercial fertilizer	30.00	0.00	0.00	0.00	
Tulare ID	Surface water	0.00	0.00	0.00	27.19	2,389,552.00 <i>gal</i>
Application event totals		30.00	0.00	0.00	27.19	

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2 - 10/10/2013: Pistachios

Application date	Application method	Precipitation 24 hours prior		Precipitation during application			Precipitation 24 hours following	
06/09/2023	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	
UN 32		Liquid commercial fertilizer	30.00	0.00	0.00	0.00		
Tulare ID		Surface water	0.00	0.00	0.00	27.19	2,389,552.00 <i>gal</i>	
Application event totals			30.00	0.00	0.00	27.19		
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	
Tulare ID		Surface water	0.00	0.00	0.00	27.19	2,389,552.00 <i>gal</i>	
Application event totals			0.00	0.00	0.00	27.19		
07/27/2023	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	
IW15		Ground water	2.45	0.00	0.00	145.02	2,389,552.00 <i>gal</i>	
Application event totals			2.45	0.00	0.00	145.02		
08/12/2023	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	
IW15		Ground water	2.45	0.00	0.00	145.02	2,389,552.00 <i>gal</i>	
Application event totals			2.45	0.00	0.00	145.02		
09/19/2023	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	
IW15		Ground water	2.45	0.00	0.00	145.02	2,389,552.00 <i>gal</i>	
Application event totals			2.45	0.00	0.00	145.02		

3 - 10/10/2013: Pistachios

Field name: 3

Crop: Pistachios

Plant date: 10/10/2013

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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3 - 10/10/2013: Pistachios

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
04/05/2023	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
Tulare ID	Surface water	0.00	0.00	0.00	20.39	5,457,954.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	20.39	
05/05/2023	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
UN 32	Liquid commercial fertilizer	30.00	0.00	0.00	0.00	
Tulare ID	Surface water	0.00	0.00	0.00	27.19	7,277,272.00 <i>gal</i>
Application event totals		30.00	0.00	0.00	27.19	
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
UN 32	Liquid commercial fertilizer	30.00	0.00	0.00	0.00	
Tulare ID	Surface water	0.00	0.00	0.00	27.19	7,277,272.00 <i>gal</i>
Application event totals		30.00	0.00	0.00	27.19	
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
Tulare ID	Surface water	0.00	0.00	0.00	27.19	7,277,272.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	27.19	
07/14/2023	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
IW15	Ground water	2.45	0.00	0.00	145.02	7,277,272.00 <i>gal</i>
Application event totals		2.45	0.00	0.00	145.02	
07/29/2023	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
IW15	Ground water	2.45	0.00	0.00	145.02	7,277,272.00 <i>gal</i>
Application event totals		2.45	0.00	0.00	145.02	

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3 - 10/10/2013: Pistachios

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following	
08/20/2023	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
IW15		Ground water	2.45	0.00	0.00	145.02	7,277,272.00 <i>gal</i>
Application event totals			2.45	0.00	0.00	145.02	

4 - 01/10/2023: Alfalfa, hay

Field name: 4

Crop: Alfalfa, hay

Plant date: 01/10/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
04/12/2023	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	85.52	14.05	135.15	501.94	1,670,800.00 <i>gal</i>
Tulare ID	Surface water	0.00	0.00	0.00	39.22	11,750,800.00 <i>gal</i>
Application event totals		85.52	14.05	135.15	541.17	
05/12/2023	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	89.83	12.31	97.62	1,004.42	1,489,630.00 <i>gal</i>
IW15	Ground water	3.65	0.00	0.00	216.48	12,159,800.00 <i>gal</i>
Application event totals		93.49	12.31	97.62	1,220.90	
06/14/2023	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
Tulare ID	Surface water	0.00	0.00	0.00	40.69	12,189,808.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	40.69	

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4 - 01/10/2023: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
07/12/2023	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
Tulare ID	Surface water	0.00	0.00	0.00	41.06	12,300,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	41.06	
08/12/2023	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
Tulare ID	Surface water	0.00	0.00	0.00	40.06	12,000,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	40.06	
09/12/2023	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
IW15	Ground water	3.30	0.00	0.00	195.83	11,000,000.00 <i>gal</i>
Application event totals		3.30	0.00	0.00	195.83	
10/12/2023	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
IW15	Ground water	3.00	0.00	0.00	178.03	10,000,000.00 <i>gal</i>
Application event totals		3.00	0.00	0.00	178.03	

5 - 04/28/2023: Corn, silage

Field name: 5

Crop: Corn, silage

Plant date: 04/28/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
04/15/2023	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
Lagoon	Process wastewater	105.28	17.30	166.38	617.93	1,645,500.00 <i>gal</i>
Tulare ID	Surface water	0.00	0.00	0.00	32.99	7,905,540.00 <i>gal</i>
Application event totals		105.28	17.30	166.38	650.91	

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5 - 04/28/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
05/18/2023	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
Tulare ID	Surface water	0.00	0.00	0.00	37.46	8,977,454.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	37.46	
05/30/2023	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	Process wastewater	93.97	15.44	148.51	551.57	1,468,790.00 <i>gal</i>
Tulare ID	Surface water	0.00	0.00	0.00	39.66	9,504,540.00 <i>gal</i>
Application event totals		93.97	15.44	148.51	591.23	
06/11/2023	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
Tulare ID	Surface water	0.00	0.00	0.00	38.30	9,178,450.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	38.30	
06/22/2023	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	88.28	14.51	139.53	518.18	1,379,889.00 <i>gal</i>
Tulare ID	Surface water	0.00	0.00	0.00	39.22	9,400,510.00 <i>gal</i>
Application event totals		88.28	14.51	139.53	557.41	
07/02/2023	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
Tulare ID	Surface water	0.00	0.00	0.00	40.07	9,604,540.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	40.07	
07/13/2023	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
Tulare ID	Surface water	0.00	0.00	0.00	41.21	9,876,500.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	41.21	

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6 - 11/08/2022: Wheat, silage, soft dough

Field name: 6

Crop: Wheat, silage, soft dough

Plant date: 11/08/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
10/21/2022	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	86.55	20.02	174.62	1,633.37	1,299,670.00 gal
IW15	Ground water	3.20	0.00	0.00	189.86	7,109,800.00 gal
Application event totals		89.75	20.02	174.62	1,823.23	

01/12/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	91.66	13.91	157.43	868.04	1,076,800.00 gal
Tulare ID	Surface water	0.00	0.00	0.00	31.54	6,298,600.00 gal
Application event totals		91.66	13.91	157.43	899.57	

03/19/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	70.66	11.61	111.67	414.72	920,310.00 gal
Tulare ID	Surface water	0.00	0.00	0.00	30.07	6,006,540.00 gal
Application event totals		70.66	11.61	111.67	444.79	

6 - 06/03/2023: Corn, silage

Field name: 6

Crop: Corn, silage

Plant date: 06/03/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
05/20/2023	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	99.90	16.35	157.20	583.81	1,295,540.00 gal
Tulare ID	Surface water	0.00	0.00	0.00	36.56	7,301,980.00 gal
Application event totals		99.90	16.35	157.20	620.37	

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6 - 06/03/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
06/23/2023	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
Tulare ID	Surface water	0.00	0.00	0.00	37.59	7,508,400.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	37.59	
07/04/2023	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	Process wastewater	102.14	18.19	166.63	1,304.48	1,474,700.00 <i>gal</i>
Tulare ID	Surface water	0.00	0.00	0.00	36.07	7,204,400.00 <i>gal</i>
Application event totals		102.14	18.19	166.63	1,340.55	
07/14/2023	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
Tulare ID	Surface water	0.00	0.00	0.00	39.58	7,904,540.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	39.58	
07/25/2023	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
Tulare ID	Surface water	0.00	0.00	0.00	36.07	7,204,410.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	36.07	
08/06/2023	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	83.44	14.86	136.12	1,065.64	1,204,700.00 <i>gal</i>
Tulare ID	Surface water	0.00	0.00	0.00	35.12	7,014,400.00 <i>gal</i>
Application event totals		83.44	14.86	136.12	1,100.76	
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
Tulare ID	Surface water	0.00	0.00	0.00	36.57	7,304,510.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	36.57	

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7 - 05/01/2023: Corn, silage

Field name: 7

Crop: Corn, silage

Plant date: 05/01/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
04/16/2023	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	105.08	15.95	180.50	995.22	987,652.00 <i>gal</i>
Tulare ID	Surface water	0.00	0.00	0.00	34.87	5,571,500.00 <i>gal</i>
Application event totals		105.08	15.95	180.50	1,030.09	
05/21/2023	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
Tulare ID	Surface water	0.00	0.00	0.00	37.03	5,916,400.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	37.03	
05/31/2023	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	91.33	15.01	144.34	536.06	951,670.00 <i>gal</i>
Tulare ID	Surface water	0.00	0.00	0.00	38.08	6,084,100.00 <i>gal</i>
Application event totals		91.33	15.01	144.34	574.14	
06/11/2023	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
Tulare ID	Surface water	0.00	0.00	0.00	38.84	6,205,440.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	38.84	
06/21/2023	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	85.38	14.03	134.93	501.13	889,650.00 <i>gal</i>
Tulare ID	Surface water	0.00	0.00	0.00	39.49	6,309,741.00 <i>gal</i>
Application event totals		85.38	14.03	134.93	540.62	

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7 - 05/01/2023: Corn, silage

Application date	Application method		Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following	
07/01/2023	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	
	Tulare ID	Surface water	0.00	0.00	0.00	37.37	5,970,440.00 <i>gal</i>	
	Application event totals		0.00	0.00	0.00	37.37		
07/12/2023	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	
	Tulare ID	Surface water	0.00	0.00	0.00	38.20	6,103,440.00 <i>gal</i>	
	Application event totals		0.00	0.00	0.00	38.20		

8 - 11/08/2022: Wheat, silage, soft dough

Field name: 8

Crop: Wheat, silage, soft dough

Plant date: 11/08/2022

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following	
10/21/2022	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	86.91	20.10	175.35	1,640.19	1,305,100.00 <i>gal</i>
Tulare ID		Surface water	0.00	0.00	0.00	32.07	6,405,510.00 <i>gal</i>
Application event totals			86.91	20.10	175.35	1,672.27	
01/10/2023	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	93.73	14.23	161.00	887.71	1,101,200.00 <i>gal</i>
IW15		Ground water	3.07	0.00	0.00	181.70	6,804,410.00 <i>gal</i>
Application event totals			96.80	14.23	161.00	1,069.41	

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8 - 11/08/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
03/22/2023	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	69.76	11.47	110.26	409.49	908,700.00 <i>gal</i>
Tulare ID	Surface water	0.00	0.00	0.00	26.07	5,206,540.00 <i>gal</i>
Application event totals		69.76	11.47	110.26	435.56	

8 - 06/12/2023: Corn, silage

Field name: 8

Crop: Corn, silage

Plant date: 06/12/2023

Application date	Application method	Precipitation 24 hours prior		Precipitation during application			Precipitation 24 hours following	
05/28/2023	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	102.68	16.80	160.24	600.08	1,331,650.00 <i>gal</i>	
Tulare ID		Surface water	0.00	0.00	0.00	35.07	7,004,500.00 <i>gal</i>	
Application event totals			102.68	16.80	160.24	635.15		
07/02/2023	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	
Tulare ID		Surface water	0.00	0.00	0.00	40.26	8,041,032.00 <i>gal</i>	
Application event totals			0.00	0.00	0.00	40.26		
07/13/2023	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	
Lagoon		Process wastewater	96.35	17.16	157.18	1,230.49	1,391,060.00 <i>gal</i>	
Tulare ID		Surface water	0.00	0.00	0.00	37.58	7,504,810.00 <i>gal</i>	
Application event totals			96.35	17.16	157.18	1,268.07		

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8 - 06/12/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
07/23/2023	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	88.34	15.73	144.11	1,128.18	1,275,400.00 <i>gal</i>
Tulare ID	Surface water	0.00	0.00	0.00	37.03	7,396,500.00 <i>gal</i>
Application event totals		88.34	15.73	144.11	1,165.21	
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
Tulare ID	Surface water	0.00	0.00	0.00	34.55	6,900,180.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	34.55	
08/16/2023	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
Tulare ID	Surface water	0.00	0.00	0.00	35.06	7,001,400.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	35.06	
08/29/2023	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
IW15	Ground water	3.29	0.00	0.00	195.05	7,304,100.00 <i>gal</i>
Application event totals		3.29	0.00	0.00	195.05	

9 - 04/29/2020: Alfalfa, hay

Field name: 9

Crop: Alfalfa, hay

Plant date: 04/29/2020

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
04/06/2023	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
Tulare ID	Surface water	0.00	0.00	0.00	35.23	7,740,520.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	35.23	

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9 - 04/29/2020: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following	
05/06/2023	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
Tulare ID		Surface water	0.00	0.00	0.00	38.26	8,406,510.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	38.26	
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
Tulare ID		Surface water	0.00	0.00	0.00	40.40	8,876,400.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	40.40	
07/04/2023	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
Tulare ID		Surface water	0.00	0.00	0.00	40.87	8,978,651.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	40.87	
08/02/2023	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
Tulare ID		Surface water	0.00	0.00	0.00	39.16	8,602,310.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	39.16	
09/02/2023	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
Tulare ID		Surface water	0.00	0.00	0.00	36.36	7,988,654.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	36.36	
10/04/2023	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
Tulare ID		Surface water	0.00	0.00	0.00	33.62	7,386,410.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	33.62	

Marys Ranch - 01/04/2021: Alfalfa, hay

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

Marys Ranch - 01/04/2021: Alfalfa, hay

Field name: Marys Ranch

Crop: Alfalfa, hay

Plant date: 01/04/2021

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
03/29/2023	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	82.03	12.45	140.89	776.84	289,100.00 <i>gal</i>
Tulare ID	Surface water	0.00	0.00	0.00	35.05	2,100,070.00 <i>gal</i>
Application event totals		82.03	12.45	140.89	811.89	
04/29/2023	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
Tulare ID	Surface water	0.00	0.00	0.00	38.41	2,301,451.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	38.41	
05/28/2023	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
Tulare ID	Surface water	0.00	0.00	0.00	41.71	2,498,900.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	41.71	
06/27/2023	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
Tulare ID	Surface water	0.00	0.00	0.00	43.03	2,578,010.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	43.03	
07/25/2023	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
Tulare ID	Surface water	0.00	0.00	0.00	40.04	2,398,990.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	40.04	

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Marys Ranch - 01/04/2021: Alfalfa, hay

Application date	Application method		Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following	
08/23/2023	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
Tulare ID			Surface water	0.00	0.00	0.00	38.37	2,298,980.00 <i>gal</i>
Application event totals				0.00	0.00	0.00	38.37	
09/23/2023	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
Tulare ID			Surface water	0.00	0.00	0.00	34.70	2,078,950.00 <i>gal</i>
Application event totals				0.00	0.00	0.00	34.70	

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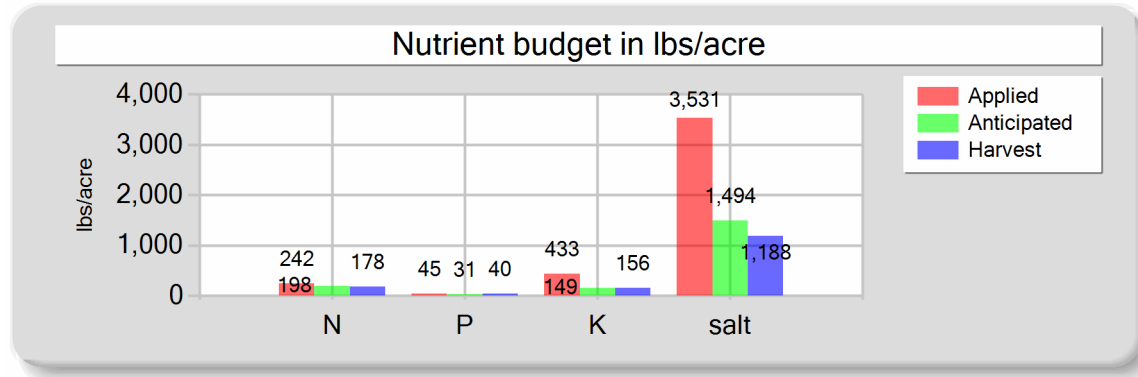
B. NUTRIENT BUDGET

1 - 11/07/2022: Wheat, silage, soft dough

Field name: 1

Crop: Wheat, silage, soft dough

Plant date: 11/07/2022



	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	25,412,942.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	935.87 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	10.40 inches/acre
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	231.62	44.57	433.34	3,306.24	Process wastewater applied
Fresh water	3.19	0.00	0.00	224.31	5,594,290.00 gallons
Atmospheric deposition	7.00	0.00	0.00	0.00	206.02 acre-inches
Total nutrients applied	241.81	44.57	433.34	3,530.54	2.29 inches/acre
Anticipated crop nutrient removal	198.00	30.60	149.40	1,494.00	
Actual crop nutrient removal	177.65	40.38	155.74	1,188.21	Total harvests for the crop
Nutrient balance	64.16	4.19	277.60	2,342.33	1 harvests
Applied to removed ratio	1.36	1.10	2.78	2.97	

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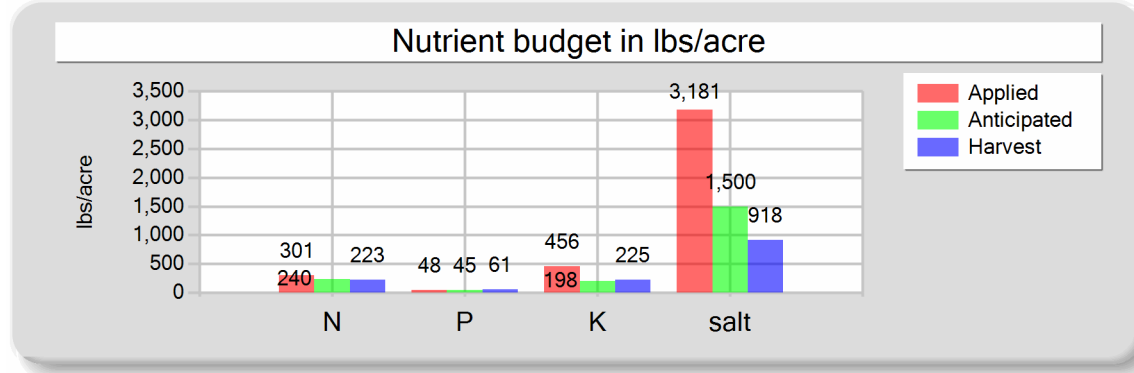
Reporting period 01/01/2023 to 12/31/2023.

1 - 06/10/2023: Corn, silage

Field name: 1

Crop: Corn, silage

Plant date: 06/10/2023



	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	284.64	48.38	455.77	2,473.19
Fresh water	9.53	0.00	0.00	707.39
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	301.16	48.38	455.77	3,180.58
Anticipated crop nutrient removal	240.00	45.00	198.00	1,500.00
Actual crop nutrient removal	223.40	61.09	225.15	918.05
Nutrient balance	77.76	-12.71	230.62	2,262.54
Applied to removed ratio	1.35	0.79	2.02	3.46

Fresh water applied
89,432,375.00 gallons
3,293.49 acre-inches
36.59 inches/acre

Process wastewater applied
6,969,034.00 gallons
256.65 acre-inches
2.85 inches/acre

Total harvests for the crop
1 harvests

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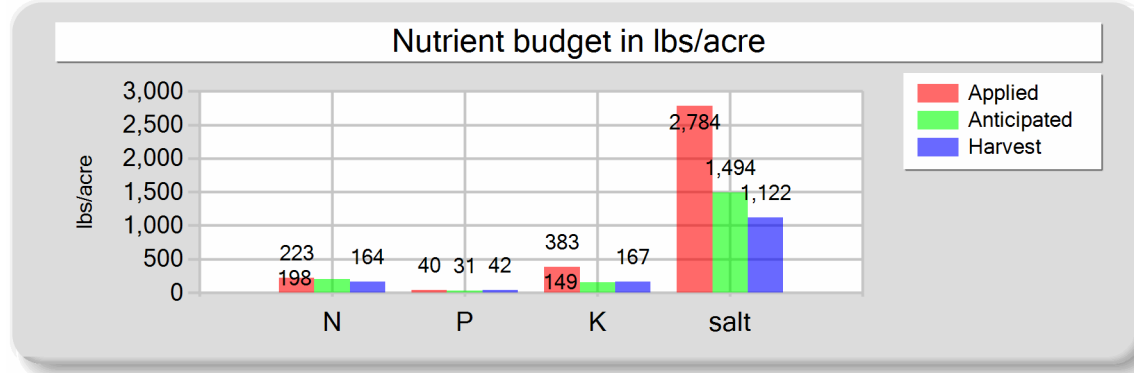
Reporting period 01/01/2023 to 12/31/2023.

10 - 11/09/2022: Wheat, silage, soft dough

Field name: 10

Crop: Wheat, silage, soft dough

Plant date: 11/09/2022



	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	213.72	39.60	382.84	2,560.41
Fresh water	2.75	0.00	0.00	223.73
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	223.47	39.60	382.84	2,784.14
Anticipated crop nutrient removal	198.00	30.60	149.40	1,494.00
Actual crop nutrient removal	164.11	42.23	166.52	1,122.21
Nutrient balance	59.36	-2.63	216.32	1,661.92
Applied to removed ratio	1.36	0.94	2.30	2.48

Fresh water applied
18,213,784.00 gallons
670.75 acre-inches
13.42 inches/acre

Process wastewater applied
2,851,540.00 gallons
105.01 acre-inches
2.10 inches/acre

Total harvests for the crop
1 harvests

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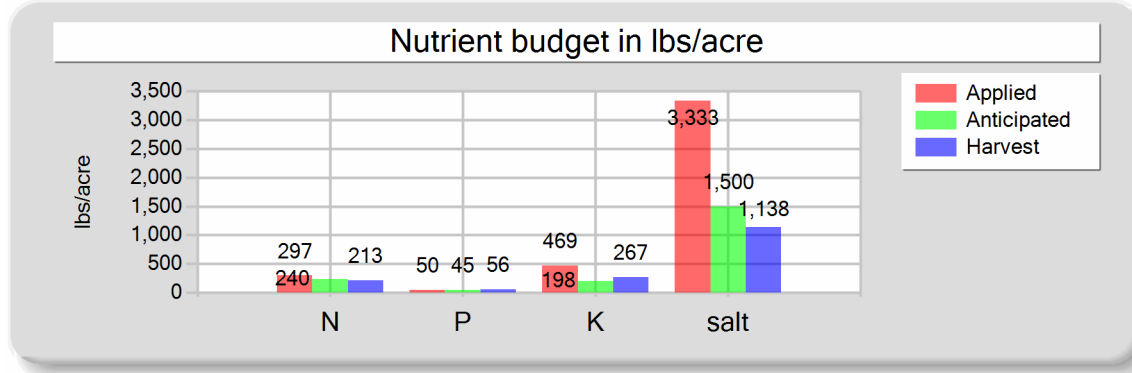
Reporting period 01/01/2023 to 12/31/2023.

10 - 06/02/2023: Corn, silage

Field name: 10

Crop: Corn, silage

Plant date: 06/02/2023



	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	290.11	50.42	468.66	3,079.57
Fresh water	0.00	0.00	0.00	253.10
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	297.11	50.42	468.66	3,332.67
Anticipated crop nutrient removal	240.00	45.00	198.00	1,500.00
Actual crop nutrient removal	213.23	56.02	267.44	1,138.41
Nutrient balance	83.89	-5.60	201.22	2,194.26
Applied to removed ratio	1.39	0.90	1.75	2.93

Fresh water applied
50,548,417.00 <i>gallons</i>
1,861.53 <i>acre-inches</i>
37.23 <i>inches/acre</i>

Process wastewater applied
4,060,550.00 <i>gallons</i>
149.54 <i>acre-inches</i>
2.99 <i>inches/acre</i>

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

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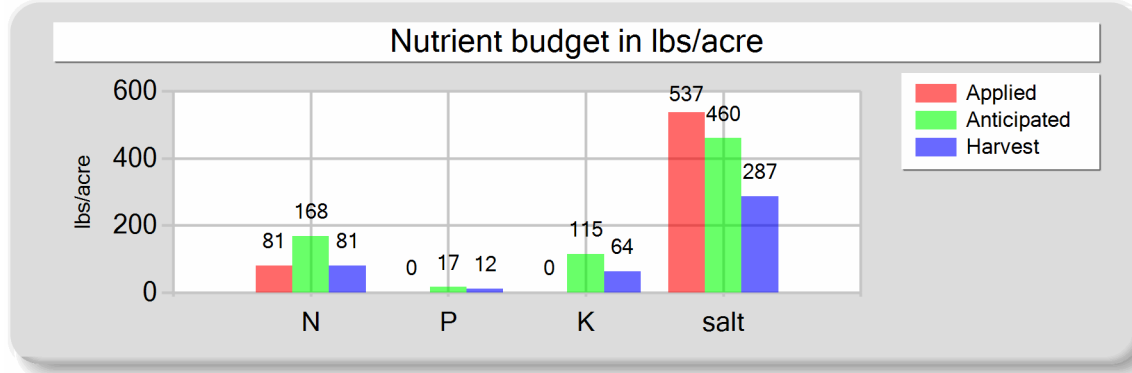
Reporting period 01/01/2023 to 12/31/2023.

2 - 10/10/2013: Pistachios

Field name: 2

Crop: Pistachios

Plant date: 10/10/2013



	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	60.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	7.34	0.00	0.00	537.04
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	81.34	0.00	0.00	537.04
Anticipated crop nutrient removal	167.90	16.56	115.00	460.00
Actual crop nutrient removal	81.17	11.65	64.06	287.20
Nutrient balance	0.17	-11.65	-64.06	249.85
Applied to removed ratio	1.00	0.00	0.00	1.87

Fresh water applied
16,129,476.00 <i>gallons</i>
593.99 <i>acre-inches</i>
27.00 <i>inches/acre</i>

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>

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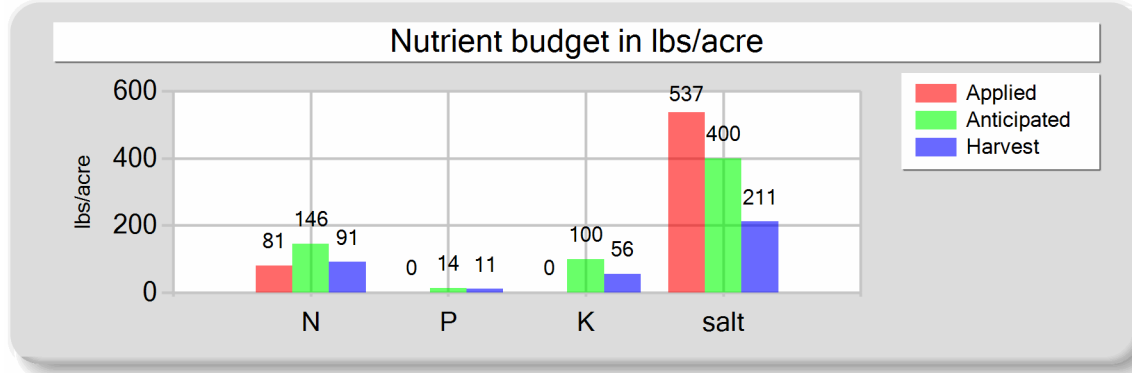
Reporting period 01/01/2023 to 12/31/2023.

3 - 10/10/2013: Pistachios

Field name: 3

Crop: Pistachios

Plant date: 10/10/2013



	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	60.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	7.34	0.00	0.00	537.04
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	81.34	0.00	0.00	537.04
Anticipated crop nutrient removal	146.00	14.40	100.00	400.00
Actual crop nutrient removal	91.07	10.94	56.31	211.42
Nutrient balance	-9.73	-10.94	-56.31	325.63
Applied to removed ratio	0.89	0.00	0.00	2.54

Fresh water applied
49,121,586.00 gallons
1,808.98 acre-inches
27.00 inches/acre

Process wastewater applied
0.00 gallons
0.00 acre-inches
0.00 inches/acre

Total harvests for the crop
1 harvests

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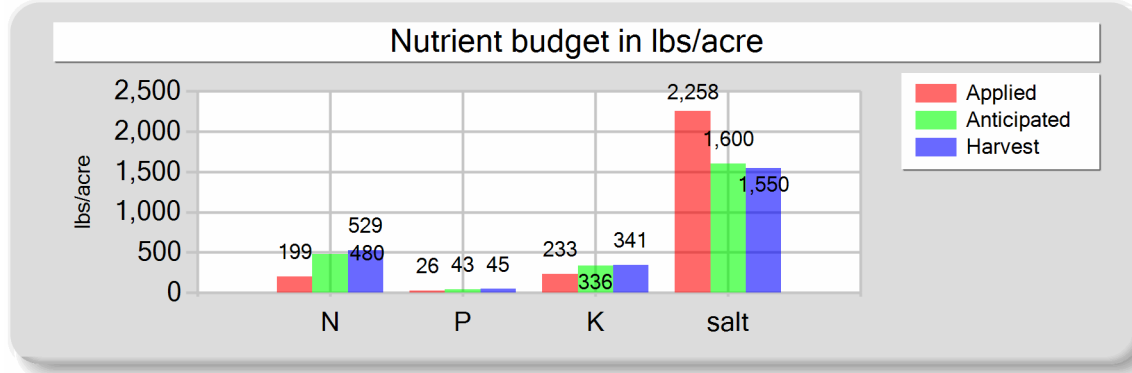
Reporting period 01/01/2023 to 12/31/2023.

4 - 01/10/2023: Alfalfa, hay

Field name: 4

Crop: Alfalfa, hay

Plant date: 01/10/2023



	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	175.35	26.37	232.78	1,506.36
Fresh water	9.96	0.00	0.00	751.36
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	199.31	26.37	232.78	2,257.72
Anticipated crop nutrient removal	480.00	43.20	336.00	1,600.00
Actual crop nutrient removal	528.96	44.70	341.22	1,549.63
Nutrient balance	-329.65	-18.33	-108.44	708.10
Applied to removed ratio	0.38	0.59	0.68	1.46

Fresh water applied
81,400,408.00 gallons
2,997.70 acre-inches
39.97 inches/acre

Process wastewater applied
3,160,430.00 gallons
116.39 acre-inches
1.55 inches/acre

Total harvests for the crop
1 harvests

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

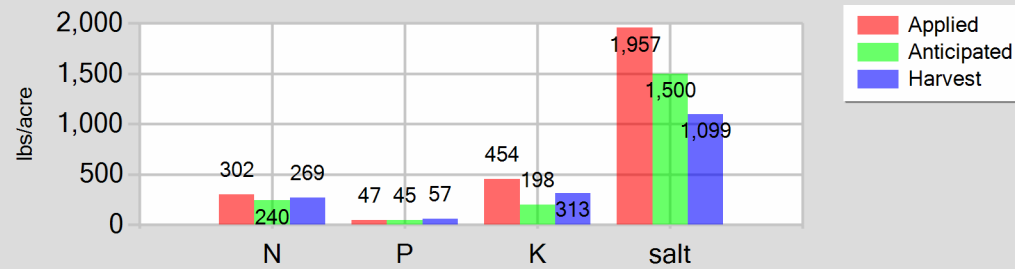
5 - 04/28/2023: Corn, silage

Field name: 5

Crop: Corn, silage

Plant date: 04/28/2023

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	287.53	47.25	454.42	1,687.68
Fresh water	0.00	0.00	0.00	268.91
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	301.53	47.25	454.42	1,956.58
Anticipated crop nutrient removal	240.00	45.00	198.00	1,500.00
Actual crop nutrient removal	268.96	56.73	313.08	1,098.95
Nutrient balance	32.57	-9.48	141.34	857.64
Applied to removed ratio	1.12	0.83	1.45	1.78

Fresh water applied
64,447,534.00 gallons
2,373.38 acre-inches
39.56 inches/acre
Process wastewater applied
4,494,179.00 gallons
165.51 acre-inches
2.76 inches/acre
Total harvests for the crop
1 harvests

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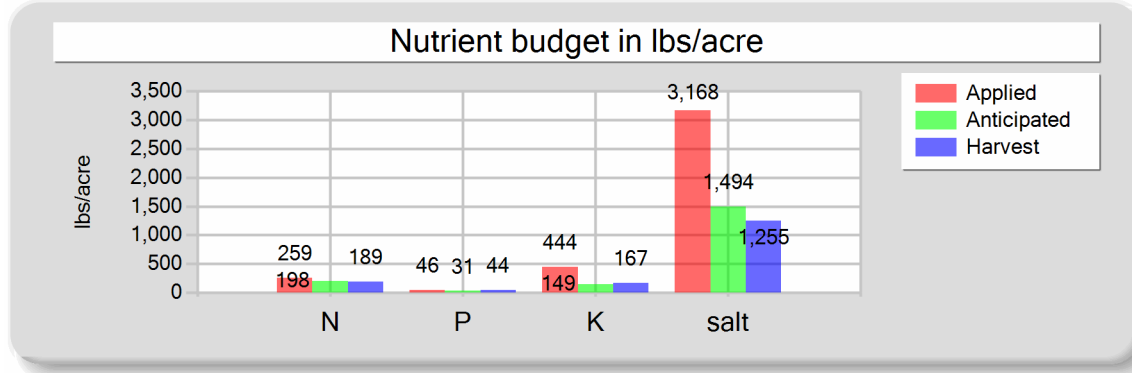
Reporting period 01/01/2023 to 12/31/2023.

6 - 11/08/2022: Wheat, silage, soft dough

Field name: 6

Crop: Wheat, silage, soft dough

Plant date: 11/08/2022



	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	248.86	45.54	443.72	2,916.13
Fresh water	3.20	0.00	0.00	251.47
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	259.06	45.54	443.72	3,167.60
Anticipated crop nutrient removal	198.00	30.60	149.40	1,494.00
Actual crop nutrient removal	189.40	44.02	166.73	1,255.11
Nutrient balance	69.67	1.53	276.99	1,912.49
Applied to removed ratio	1.37	1.03	2.66	2.52

Fresh water applied
19,414,940.00 gallons
714.99 acre-inches
14.30 inches/acre

Process wastewater applied
3,296,780.00 gallons
121.41 acre-inches
2.43 inches/acre

Total harvests for the crop
1 harvests

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

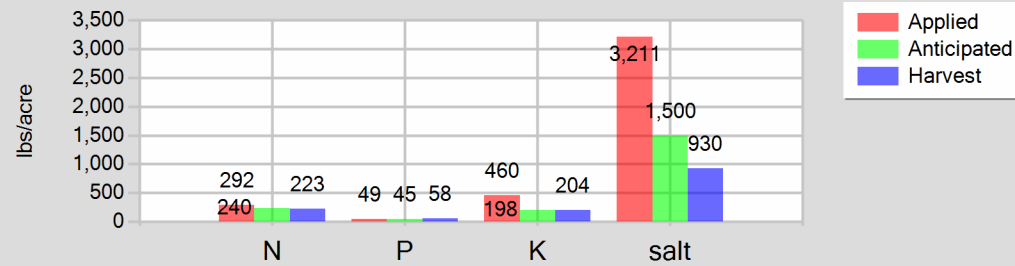
6 - 06/03/2023: Corn, silage

Field name: 6

Crop: Corn, silage

Plant date: 06/03/2023

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	285.48	49.39	459.94	2,953.93
Fresh water	0.00	0.00	0.00	257.57
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	292.48	49.39	459.94	3,211.50
Anticipated crop nutrient removal	240.00	45.00	198.00	1,500.00
Actual crop nutrient removal	223.05	58.11	204.31	929.70
Nutrient balance	69.43	-8.71	255.64	2,281.80
Applied to removed ratio	1.31	0.85	2.25	3.45

Fresh water applied
51,442,640.00 gallons
1,894.46 acre-inches
37.89 inches/acre
Process wastewater applied
3,974,940.00 gallons
146.38 acre-inches
2.93 inches/acre
Total harvests for the crop
1 harvests

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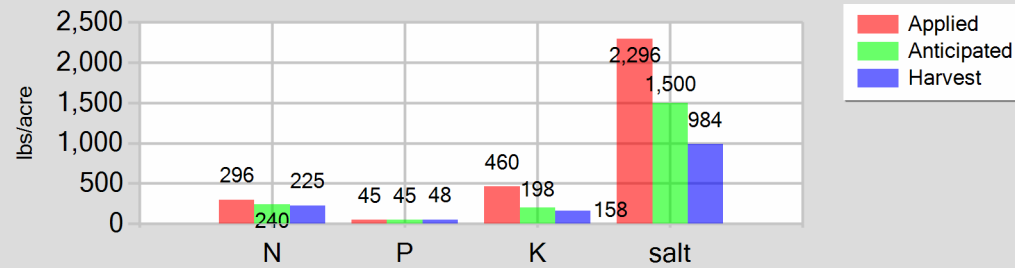
7 - 05/01/2023: Corn, silage

Field name: 7

Crop: Corn, silage

Plant date: 05/01/2023

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	281.79	44.99	459.77	2,032.41
Fresh water	0.00	0.00	0.00	263.88
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	295.79	44.99	459.77	2,296.28
Anticipated crop nutrient removal	240.00	45.00	198.00	1,500.00
Actual crop nutrient removal	225.41	48.17	157.98	984.49
Nutrient balance	70.38	-3.18	301.79	1,311.79
Applied to removed ratio	1.31	0.93	2.91	2.33

Fresh water applied
42,161,061.00 gallons
1,552.65 acre-inches
38.82 inches/acre
Process wastewater applied
2,828,972.00 gallons
104.18 acre-inches
2.60 inches/acre
Total harvests for the crop
1 harvests

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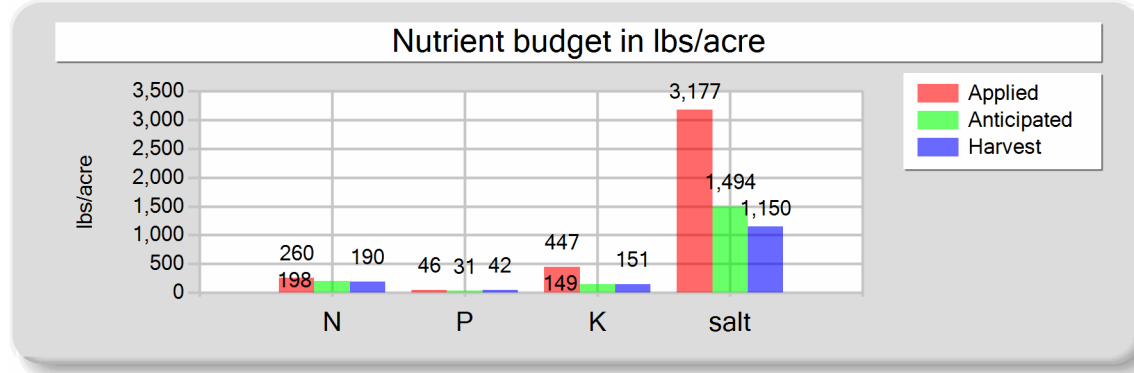
Reporting period 01/01/2023 to 12/31/2023.

8 - 11/08/2022: Wheat, silage, soft dough

Field name: 8

Crop: Wheat, silage, soft dough

Plant date: 11/08/2022



	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	250.41	45.80	446.60	2,937.39
Fresh water	3.07	0.00	0.00	239.85
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	260.47	45.80	446.60	3,177.23
Anticipated crop nutrient removal	198.00	30.60	149.40	1,494.00
Actual crop nutrient removal	190.36	42.30	150.54	1,149.60
Nutrient balance	70.12	3.49	296.06	2,027.63
Applied to removed ratio	1.37	1.08	2.97	2.76

Fresh water applied
18,416,460.00 <i>gallons</i>
678.22 <i>acre-inches</i>
13.56 <i>inches/acre</i>

Process wastewater applied
3,315,000.00 <i>gallons</i>
122.08 <i>acre-inches</i>
2.44 <i>inches/acre</i>

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

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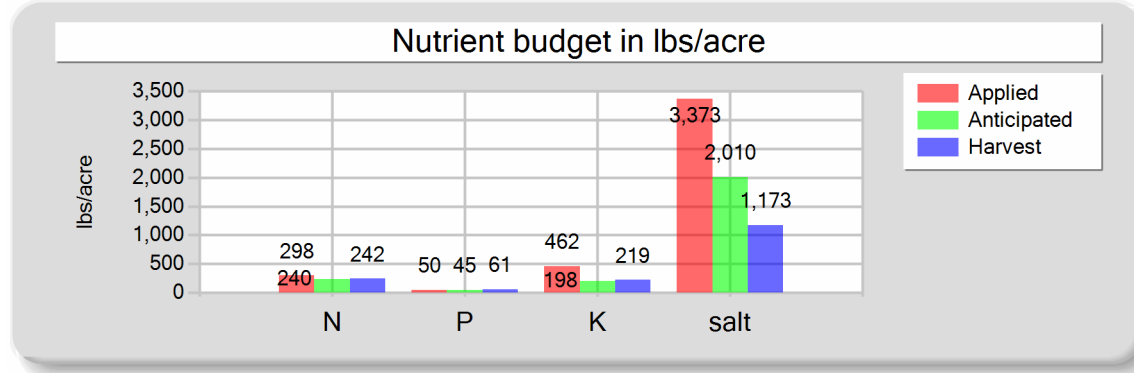
Reporting period 01/01/2023 to 12/31/2023.

8 - 06/12/2023: Corn, silage

Field name: 8

Crop: Corn, silage

Plant date: 06/12/2023



	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	287.37	49.69	461.53	2,958.75
Fresh water	3.29	0.00	0.00	414.60
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	297.66	49.69	461.53	3,373.35
Anticipated crop nutrient removal	240.00	45.00	198.00	2,010.00
Actual crop nutrient removal	241.64	61.43	219.11	1,173.37
Nutrient balance	56.02	-11.74	242.42	2,199.98
Applied to removed ratio	1.23	0.81	2.11	2.87

Fresh water applied
51,152,522.00 <i>gallons</i>
1,883.77 <i>acre-inches</i>
37.68 <i>inches/acre</i>

Process wastewater applied
3,998,110.00 <i>gallons</i>
147.24 <i>acre-inches</i>
2.94 <i>inches/acre</i>

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

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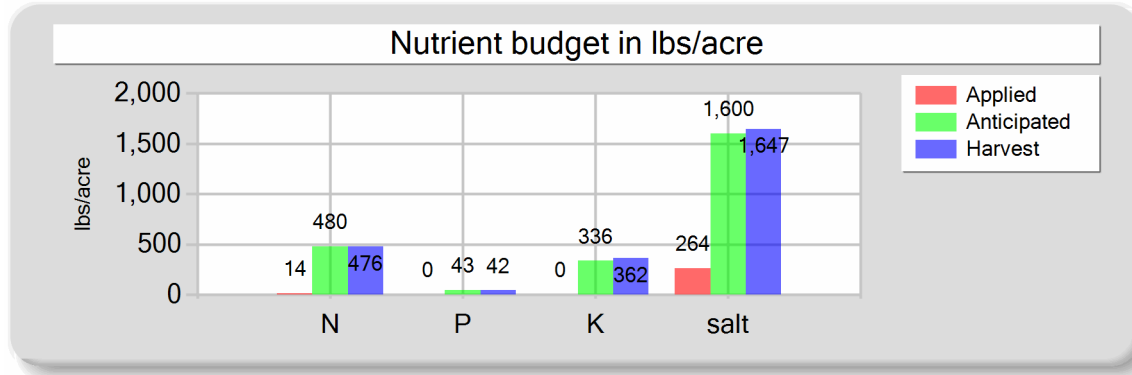
Reporting period 01/01/2023 to 12/31/2023.

9 - 04/29/2020: Alfalfa, hay

Field name: 9

Crop: Alfalfa, hay

Plant date: 04/29/2020



	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	57,979,455.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	2,135.19 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	38.82 inches/acre
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	263.91	
Atmospheric deposition	14.00	0.00	0.00	0.00	
Total nutrients applied	14.00	0.00	0.00	263.91	
Anticipated crop nutrient removal	480.00	43.20	336.00	1,600.00	
Actual crop nutrient removal	476.13	41.92	362.34	1,647.00	
Nutrient balance	-462.13	-41.92	-362.34	-1,383.09	
Applied to removed ratio	0.03	0.00	0.00	0.16	
					Process wastewater applied
					0.00 gallons
					0.00 acre-inches
					0.00 inches/acre
					Total harvests for the crop
					1 harvests

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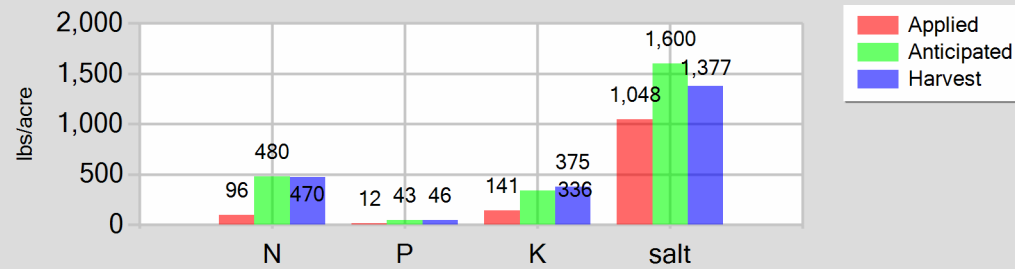
Marys Ranch - 01/04/2021: Alfalfa, hay

Field name: Marys Ranch

Crop: Alfalfa, hay

Plant date: 01/04/2021

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	82.03	12.45	140.89	776.84
Fresh water	0.00	0.00	0.00	271.30
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	96.03	12.45	140.89	1,048.14
Anticipated crop nutrient removal	480.00	43.20	336.00	1,600.00
Actual crop nutrient removal	469.67	46.39	375.45	1,377.12
Nutrient balance	-373.64	-33.94	-234.55	-328.98
Applied to removed ratio	0.20	0.27	0.38	0.76

Fresh water applied
16,255,351.00 <i>gallons</i>
598.63 <i>acre-inches</i>
39.91 <i>inches/acre</i>
Process wastewater applied
289,100.00 <i>gallons</i>
10.65 <i>acre-inches</i>
0.71 <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.

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: 40.6 %

	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	20,000.00	6,000.00	12,900.00							
DL	100.00	200.00	200.00							

Manure

Sample and source description: Manure

Sample date: 10/03/2023 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 45.7 %

	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	23,100.00	6,600.00	20,200.00							
DL	100.00	200.00	200.00							

B. PROCESS WASTEWATER ANALYSES

Lagoon

Sample and source description: Lagoon

Sample date: 11/18/2022 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	399.00	294.00			92.30	805.00								11,300.00	7,530
DL	10.00	2.00			0.20	0.50								100.00	10

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Lagoon

Sample and source description: Lagoon

Sample date: 02/22/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 7.30

	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	508.00	352.00		2.00	77.40	876.00								7,280.00	4,830
DL	10.00	2.00		2.00	0.20	0.50								100.00	10

Lagoon

Sample and source description: Lagoon

Sample 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	460.00	402.00			75.60	727.00								4,060.00	2,700
DL	10.00	2.00			0.20	0.50								100.00	10

Lagoon

Sample and source description: Lagoon

Sample 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	415.00	411.00			73.90	677.00								7,980.00	5,300
DL	10.00	2.00			0.20	0.50								100.00	10

Lagoon

Sample and source description: Lagoon

Sample 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	316.00	314.00			53.40	361.00								4,960.00	3,290
DL	10.00	2.00			0.20	0.50								100.00	10

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C. FRESH WATER ANALYSES

D1

Domestic well

Sample description: Domestic 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			52.80								1,280.00	
DL			2.00								1.00	

Dairy N

Domestic well

Sample description: Domestic 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			2.50								194.00	
DL			0.40								1.00	

Dom MR

Domestic well

Sample description: Domestic 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			16.90	72.00	3.00	40.00	240.00	0.00	7.50	19.00	605.00	380
DL			0.10	1.00	1.00	1.00	10.00	10.00	0.17	1.00	1.00	20

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IW15

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	2.70		2.70								196.00	160
DL	0.50		0.40								1.00	20

RD1

Domestic well

Sample description: Domestic 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			15.30								356.00	
DL			0.40								1.00	

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								44.00	30
DL	0.50		0.40								1.00	20

D. SOIL ANALYSES

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

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

No soil analyses entered.

E. PLANT TISSUE ANALYSES

1 - 11/07/2022: Wheat, silage, soft dough

wheat sample

Sample and source description: wheat sampleSample date: 05/03/2023 Source of analysis: Lab analysis Method of reporting: Dry-weightMoisture: 69.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	15,400.00	3,500.00	13,500.00		10.30
DL	500.00	200.00	200.00		0.05

1 - 06/10/2023: Corn, silage

corn sample

Sample and source description: corn sampleSample date: 09/22/2023 Source of analysis: Lab analysis Method of reporting: Dry-weightMoisture: 69.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	12,800.00	3,500.00	12,900.00		5.26
DL	500.00	200.00	200.00		0.05

10 - 11/09/2022: Wheat, silage, soft dough

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

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

10 - 11/09/2022: Wheat, silage, soft dough

wheat sample

Sample and source description: wheat sample

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

Moisture: 68.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	13,600.00	3,500.00	13,800.00		9.30
DL	500.00	200.00	200.00		0.05

10 - 06/02/2023: Corn, silage

corn sample

Sample and source description: corn sample

Sample date: 09/11/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 67.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	11,800.00	3,100.00	14,800.00		6.30
DL	500.00	200.00	200.00		0.05

2 - 10/10/2013: Pistachios

Pistachios

Sample and source description: Pistachios

Sample date: 09/14/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 23.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	22,300.00	3,200.00	17,600.00		5.40
DL	500.00	200.00	200.00		0.05

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

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

3 - 10/10/2013: Pistachios

Pistachios

Sample and source description: Pistachios

Sample date: 09/14/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 23.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	28,300.00	3,400.00	17,500.00		6.57
DL	500.00	200.00	200.00		0.05

4 - 01/10/2023: Alfalfa, hay

Alfalfa

Sample and source description: Alfalfa

Sample date: 11/14/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 8.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	35,500.00	3,000.00	22,900.00		10.40
DL	500.00	200.00	200.00		0.05

5 - 04/28/2023: Corn, silage

corn sample

Sample and source description: corn sample

Sample date: 08/08/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 62.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	12,800.00	2,700.00	14,900.00		5.23
DL	500.00	200.00	200.00		0.05

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

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

6 - 11/08/2022: Wheat, silage, soft dough

wheat sample

Sample and source description: wheat sampleSample date: 05/04/2023 Source of analysis: Lab analysis Method of reporting: Dry-weightMoisture: 65.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	14,200.00	3,300.00	12,500.00		9.41
DL	500.00	200.00	200.00		0.05

6 - 06/03/2023: Corn, silage

corn sample

Sample and source description: corn sampleSample date: 09/11/2023 Source of analysis: Lab analysis Method of reporting: Dry-weightMoisture: 67.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	11,900.00	3,100.00	10,900.00		4.96
DL	500.00	200.00	200.00		0.05

7 - 05/01/2023: Corn, silage

corn sample

Sample and source description: corn sampleSample date: 08/09/2023 Source of analysis: Lab analysis Method of reporting: Dry-weightMoisture: 66.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	11,700.00	2,500.00	8,200.00		5.11
DL	500.00	200.00	200.00		0.05

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

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

8 - 11/08/2022: Wheat, silage, soft dough

wheat sample

Sample and source description: wheat sample

Sample date: 05/04/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 67.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	15,300.00	3,400.00	12,100.00		9.24
DL	500.00	200.00	200.00		0.05

8 - 06/12/2023: Corn, silage

corn sample

Sample and source description: corn sample

Sample date: 09/22/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 64.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	11,800.00	3,000.00	10,700.00		5.73
DL	500.00	200.00	200.00		0.05

9 - 04/29/2020: Alfalfa, hay

alfalfa sample

Sample and source description: alfalfa sample

Sample date: 11/14/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 8.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	31,800.00	2,800.00	24,200.00		11.00
DL	500.00	200.00	200.00		0.05

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

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

Marys Ranch - 01/04/2021: Alfalfa, hay

alfalfa sample

Sample and source description: alfalfa sample

Sample date: 11/14/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 9.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	32,400.00	3,200.00	25,900.00		9.50
DL	500.00	200.00	200.00		0.05

F. SUBSURFACE (TILE) DRAINAGE ANALYSES

No subsurface (tile) drainage analyses entered.

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

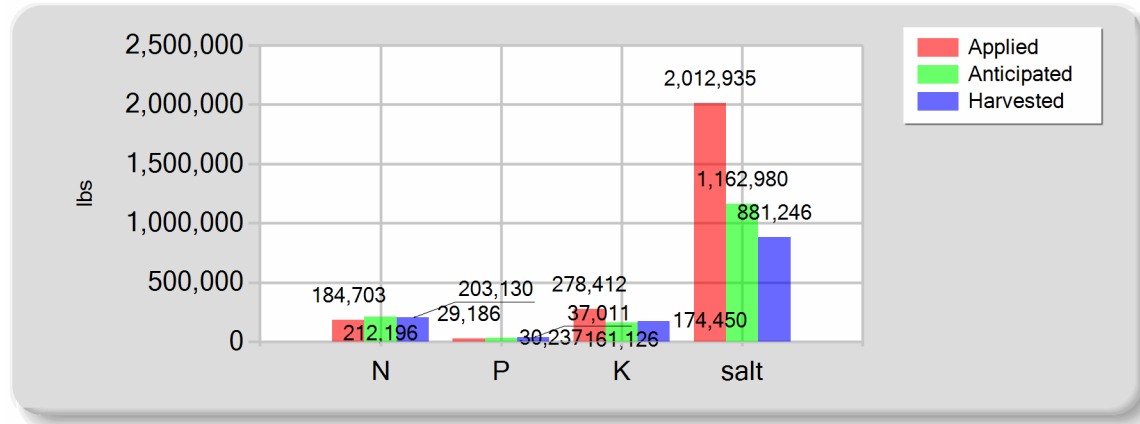
Reporting period 01/01/2023 to 12/31/2023.

NUTRIENT APPLICATIONS, POTENTIAL REMOVAL, AND BALANCE

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

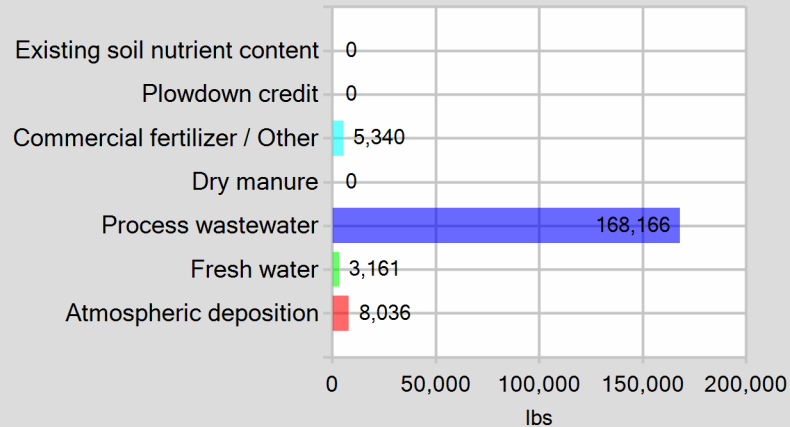
	Total N (lbs)	Total P (lbs)	Total K (lbs)	Total salt (lbs)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	5,340.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	168,165.96	29,186.28	278,411.85	1,697,643.91
Fresh water	3,160.68	0.00	0.00	315,291.35
Atmospheric deposition	8,036.00	0.00	0.00	0.00
Total nutrients applied	184,702.65	29,186.28	278,411.85	2,012,935.26
Anticipated crop nutrient removal	212,195.80	30,237.12	161,126.00	1,162,980.00
Actual crop nutrient removal	203,129.67	37,011.04	174,450.15	881,246.36
Nutrient balance	-18,427.02	-7,824.76	103,961.70	1,131,688.89
Applied to removed ratio	0.91	0.79	1.60	2.28

B. POUNDS OF NUTRIENT APPLIED VS. CROP REMOVAL

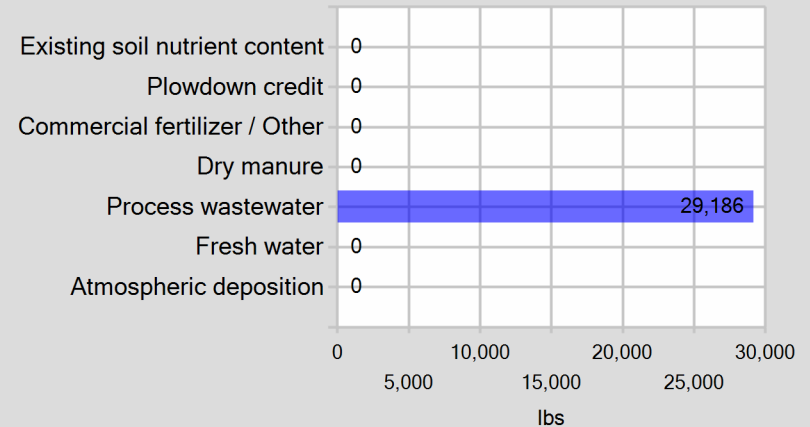


C. POUNDS OF NUTRIENT APPLIED BY MATERIAL TYPE

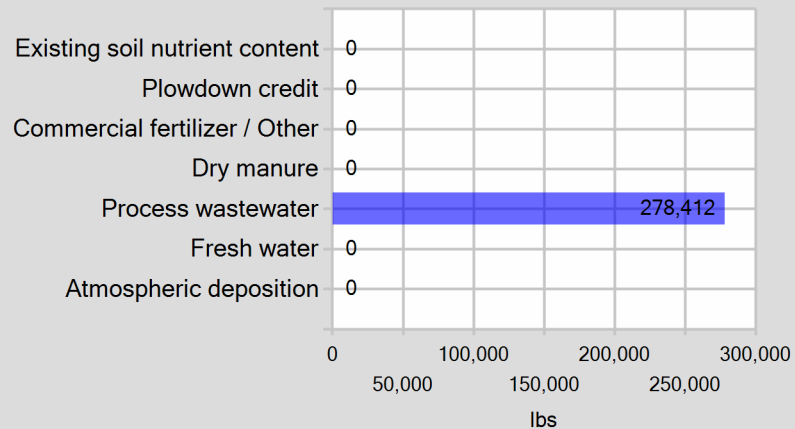
Pounds of nitrogen applied



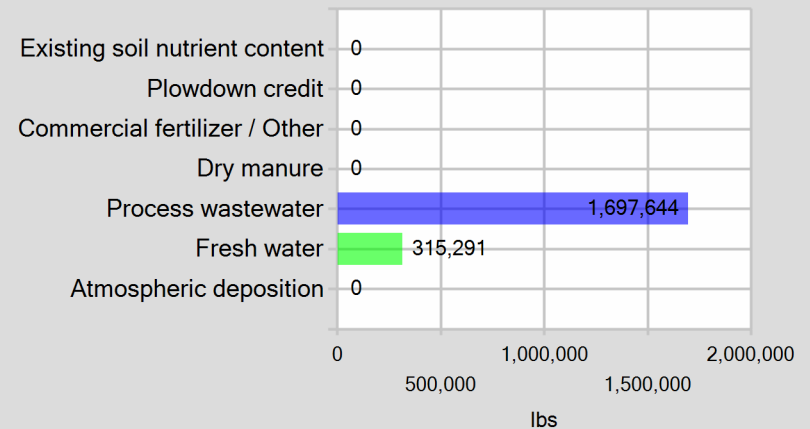
Pounds of phosphorus applied



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

ADDITIONAL NOTES

A. NOTES

~Wells IW1, IW2, IW3, IW4, IW5, IW6, IW7, IW8, IW9, IW11, IW12, IWMR, and Dairy S were Out of Service in 2023.

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

Edwin Koetsier

SAME AS OWNER

PRINT OR TYPE NAME

PRINT OR TYPE NAME

6/11/24

DATE

DATE

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

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

ATTACHMENTS

A. REQUIRED ATTACHMENTS

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

Annual Dairy Facility Assessment

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

Manure/Process Wastewater Tracking Manifests

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

Corrective Actions Documents

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

Groundwater Monitoring

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

Storm Water Monitoring

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

July 11, 2023

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

Lab No. : VI 2344188
Customer No. : 4019696
Reference : 3041

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
Tulare I.D.	06/23/2023	06/23/2023	VI 2344188-001	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 : Tulare I.D.
 Project : Tulare I.D.

Lab No. : VI 2344188-001
 Customer No. : 4019696
 Reference : 3041
 Sampled On : June 23, 2023 at 09:10
 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	19:44	lcr
Nitrate Nitrogen	ND	0.4	mg/L		1	U	06/28/2023	11:00	lfs	SM 4500-NO3 F	06/28/2023	12:41	lfs
Nitrogen, Total as Nitrogen	ND	0.5	mg/L		1	U	07/03/2023	12:54	sta	Calc.	07/07/2023	19:44	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	12:41	lfs
Kjeldahl Nitrogen	ND	0.5	mg/L		1	U	07/03/2023	12:54	sta	EPA 351.2	07/07/2023	19:44	lcr
Conductivity	44	1	umhos/cm		1		07/05/2023	14:10	amm	SM 4500-H+B	07/05/2023	21:39	sta
Solids, Total Dissolved (TDS)	30	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
 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

July 11, 2023
Sentry Ag Service

Lab No. : VI 2344188
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 2344188

3041

SITE NAME: Tulare I.D.

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)
- W6 NO₃N, NO₂ (Dom ILRP, Annually)
- W7 Ca, Mg, Na, K, HCO₃, CO₃, SO₄, Cl + Lab Filtering (GWM)
- 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	Tulare I.D.	Canal	W2	6/23/23 9:10	Klay	-		
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	Klay	SAS		6/23/23 10:28
2 nd	COOS	FGL	6-23-2023 1028	
3 rd	COOS	FGL		6-23-2023 1730
4 th	GIL		6-23-2023 1028	

LABORATORY USE ONLY

Logged In By: _____ Total Samples: _____ Laboratory No.: _____

6.6°
ROT

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° ROL / / /

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): COB

Sample Receipt at SP:

1. Were samples received in a chilled condition? Temps: 1 / / / /
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? ☒ 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? ☒ 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): ODA

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 com-
contacts)

(4019696)
Sentry Ag Service
VI 2344188

iv 06/24/2023 09:55:11



UI 2344188

January 2, 2024

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

Lab No. : VI 2348247
Customer No. : 4019696
Reference : 3465

Laboratory Report

Introduction: This report package contains a total of 9 pages divided into 3 sections:

Case Narrative	(1 page)	: An overview of the work performed at FGL.
Sample Results	(5 pages)	: 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
Dairy N	12/06/2023	12/06/2023	VI 2348247-001	DW
RD1	12/06/2023	12/06/2023	VI 2348247-002	DW
D1	12/06/2023	12/06/2023	VI 2348247-003	DW
Dom MR	12/06/2023	12/06/2023	VI 2348247-004	DW
IW#15	12/06/2023	12/06/2023	VI 2348247-005	AGW

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. 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)
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: JRD

Approved By **Kelly A. Dunnahoo, B.S.**


 Digitally signed by Kelly A. Dunnahoo, B.S.
 Title: Laboratory Director
 Date: 2024-01-02

Section: Case Narrative

Page 1 of 9

Page 1 of 9

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 FAX: (559)734-8435
 CA ELAP Certification No. 2810

January 2, 2024

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

Description : Dairy N
 Project : Oakview

Lab No. : VI 2348247-001
 Customer No. : 4019696
 Reference : 3465
 Sampled On : December 6, 2023 at 09:15
 Sampled By : Brandon
 Received On : December 6, 2023 at 12:47
 Matrix : Drinking Water

Sample Results - Inorganic

Constituent	Result	RL	Units	MCL/AL	Dil.	DQF	Sample Preparation			Sample Analysis			
Dairy Analysis							Date	Time	Who	Method	Date	Time	Who
Nitrate Nitrogen	2.5	0.4	mg/L	10	1		12/07/2023	12:00	lfs	SM 4500-NO3 F	12/07/2023	14:16	lfs
Conductivity	194	1	umhos/cm	1600 ²	1		12/08/2023	10:31	krh	SM 4500-H+B	12/08/2023	11:29	krh

DQF Flags Definition:

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

MCL = Maximum Contamination Level. 2 - Secondary Standard. 3 - CDPH Notification Level. AL = Regulatory Action Level.

January 2, 2024

Sentry Ag Services

Attn: Monique Baldiviez

P.O. Box 7750

Visalia, CA 93290

Description : RD1

Project : Oakview

Lab No. : VI 2348247-002

Customer No. : 4019696

Reference : 3465

Sampled On : December 6, 2023 at 09:35

Sampled By : Brandon

Received On : December 6, 2023 at 12:47

Matrix : Drinking Water

Sample Results - Inorganic

Constituent	Result	RL	Units	MCL/AL	Dil.	DQF	Sample Preparation			Sample Analysis			
Dairy Analysis							Date	Time	Who	Method	Date	Time	Who
Nitrate Nitrogen	15.3	0.4	mg/L	10	1		12/07/2023	12:00	lfs	SM 4500-NO3 F	12/07/2023	14:18	lfs
Conductivity	356	1	umhos/cm	1600 ²	1		12/08/2023	10:31	krh	SM 4500-H+B	12/08/2023	11:32	krh

DQF Flags Definition:

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

MCL = Maximum Contamination Level. 2 - Secondary Standard. 3 - CDPH Notification Level. AL = Regulatory Action Level.

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January 2, 2024

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

Description : D1
 Project : Oakview

Lab No. : VI 2348247-003
 Customer No. : 4019696
 Reference : 3465
 Sampled On : December 6, 2023 at 09:20
 Sampled By : Brandon
 Received On : December 6, 2023 at 12:47
 Matrix : Drinking Water

Sample Results - Inorganic

Constituent	Result	RL	Units	MCL/AL	Dil.	DQF	Sample Preparation			Sample Analysis			
Dairy Analysis							Date	Time	Who	Method	Date	Time	Who
Nitrate Nitrogen	52.8	2*	mg/L	10	5		12/07/2023	12:00	lfs	SM 4500-NO3 F	12/07/2023	18:23	lfs
Conductivity	1280	1	umhos/cm	1600 ²	1		12/08/2023	10:31	krh	SM 4500-H+B	12/08/2023	11:35	krh

DQF Flags Definition:

ND=Non-Detected, RL=Reporting Level * RL adjusted for dilution, Dil.=Dilution
 MCL = Maximum Contamination Level. 2 - Secondary Standard. 3 - CDPH Notification Level. AL = Regulatory Action Level.

January 2, 2024

Sentry Ag Services

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

Description : Dom MR
 Project : Oakview

Lab No. : VI 2348247-004
 Customer No. : 4019696
 Reference : 3465
 Sampled On : December 6, 2023 at 09:10
 Sampled By : Brandon
 Received On : December 6, 2023 at 12:47
 Matrix : Drinking Water

Sample Results - Inorganic

Constituent	Result	RL	Units	MCL/AL	Dil.	DQF	Sample Preparation			Sample Analysis			
Dairy Analysis							Date	Time	Who	Method	Date	Time	Who
Alkalinity (as CaCO ₃)	200	10	mg/L		1		12/09/2023	15:04	amm	SM 4500-H+B	12/09/2023	21:53	amm
Bicarbonate	240	10	mg/L		1		12/09/2023	15:04	amm	SM 4500-H+B	12/09/2023	21:53	amm
Carbonate	ND	10	mg/L		1	U	12/09/2023	15:04	amm	SM 4500-H+B	12/09/2023	21:53	amm
Hydroxide	ND	10	mg/L		1	U	12/09/2023	15:04	amm	SM 4500-H+B	12/09/2023	21:53	amm
Chloride	19	1	mg/L	500 ²	1		12/07/2023	10:59	ldm	EPA 300.0	12/07/2023	20:03	ldm
Nitrate Nitrogen	16.9	0.1	mg/L	10	1		12/07/2023	10:59	ldm	EPA 300.0	12/07/2023	20:03	ldm
Conductivity	605	1	umhos/cm	1600 ²	1		12/09/2023	15:04	amm	SM 4500-H+B	12/09/2023	21:53	amm
Sulfate Sulfur	7.50	0.17	mg/L		1		12/07/2023	10:59	ldm	EPA 300.0	12/07/2023	20:03	ldm
Solids, Total Dissolved (TDS)	380	20	mg/L	1000 ²	1		12/08/2023	09:50	ctl	SM 2540 C	12/11/2023	11:30	ctl
Calcium	72	1	mg/L		1		12/07/2023	07:15	ejc	EPA 200.7	12/08/2023	18:20	ac
Magnesium	3	1	mg/L		1		12/07/2023	07:15	ejc	EPA 200.7	12/08/2023	18:20	ac
Potassium	ND	1	mg/L		1	U	12/07/2023	07:15	ejc	EPA 200.7	12/08/2023	18:20	ac
Sodium	40	1	mg/L		1		12/07/2023	07:15	ejc	EPA 200.7	12/08/2023	18:20	ac

DQF Flags Definition:

U Constituent results were non-detect.

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

MCL = Maximum Contamination Level. 2 - Secondary Standard. 3 - CDPH Notification Level. AL = Regulatory Action Level.

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January 2, 2024

Sentry Ag Services

Attn: Monique Baldiviez

P.O. Box 7750

Visalia, CA 93290

Description : IW#15
Project : Oakview

Lab No. : VI 2348247-005
 Customer No. : 4019696
 Reference : 3465
 Sampled On : December 6, 2023 at 09:25
 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
Nitrogen, Total Kjeldahl	ND	0.5	mg/L		1	UI	12/19/2023	05:12	lcr	EPA 351.2	12/23/2023	19:53	lcr
Nitrate Nitrogen	2.7	0.4	mg/L		1		12/07/2023	12:00	lfs	SM 4500-NO3 F	12/07/2023	14:23	lfs
Nitrogen, Total as Nitrogen	2.7	0.5	mg/L		1	1	12/19/2023	05:12	lcr	Calc.	12/23/2023	19:53	lcr
Nitrate + Nitrite as N	2.7	0.4	mg/L		1		12/07/2023	12:00	lfs	SM 4500-NO3 F	12/07/2023	14:23	lfs
Kjeldahl Nitrogen	ND	0.5	mg/L		1	UI	12/19/2023	05:12	lcr	EPA 351.2	12/23/2023	19:53	lcr
Conductivity	196	1	umhos/cm		1		12/13/2023	08:05	krh	SM 4500-H+B	12/13/2023	10:24	krh
Solids, Total Dissolved (TDS)	160	20	mg/L		1		12/11/2023	10:00	ctl	SM 2540 C	12/12/2023	11:20	ctl

DQF Flags Definition:

- U Constituent results were non-detect.
- 1 The MS/MSD did not meet QC criteria.

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

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January 2, 2024
Sentry Ag Service

Lab No. : VI 2348247
Customer No. : 4019696

Quality Control - Metals

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Metals Calcium	200.7	12/07/2023:213816EJC	Blank	mg/L		ND	<1	
			LCS	mg/L	12.00	97.4%	85-115	
			MS	mg/L	12.00	88.8%	75-125	
			MSD	mg/L	12.00	106%	75-125	
		(CC 2384296-004)	MSRPD	mg/L		1.7%	≤20.0	
			MS	mg/L	12.00	69.3%	<¼	
			MSD	mg/L	12.00	54.2%	<¼	
			MSRPD	mg/L		1.5%	≤20.0	
Magnesium	200.7	12/07/2023:213816EJC	Blank	mg/L		ND	<1	
			LCS	mg/L	12.00	98.5%	85-115	
			MS	mg/L	12.00	69.5%	<¼	
			MSD	mg/L	12.00	101%	75-125	
		(CC 2384296-004)	MSRPD	mg/L		2.9%	≤20	
			MS	mg/L	12.00	74.2%	<¼	
			MSD	mg/L	12.00	66.0%	<¼	
			MSRPD	mg/L		1.2%	≤20	
Potassium	200.7	12/07/2023:213816EJC	Blank	mg/L		ND	<1	
			LCS	mg/L	12.00	97.9%	85-115	
			MS	mg/L	12.00	97.0%	75-125	
			MSD	mg/L	12.00	97.2%	75-125	
		(CC 2384296-004)	MSRPD	mg/L		0.2%	≤20.0	
			MS	mg/L	12.00	98.0%	75-125	
			MSD	mg/L	12.00	98.4%	75-125	
			MSRPD	mg/L		0.3%	≤20.0	
Sodium	200.7	12/07/2023:213816EJC	Blank	mg/L		ND	<1	
			LCS	mg/L	12.00	96.4%	85-115	
			MS	mg/L	12.00	87.7%	75-125	
			MSD	mg/L	12.00	101%	75-125	
		(CC 2384296-004)	MSRPD	mg/L		2.4%	≤20.0	
			MS	mg/L	12.00	89.4%	75-125	
			MSD	mg/L	12.00	75.8%	75-125	
			MSRPD	mg/L		2.2%	≤20.0	

Definition

<¼	: High Sample Background - Spike concentration was less than one forth of the sample concentration.
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	(VI 2348309-001)	Dup	mg/L		0.4%	10	
Bicarbonate	2320B	(VI 2348309-001)	Dup	mg/L		0.4%	10	
E. C.	2320B	(VI 2348247-001)	Dup	umhos/cm		1.04%	5	
	2320B	(VI 2348309-001)	Dup	umhos/cm		0.2%	5	
	2320B	(VI 2348337-001)	Dup	umhos/cm		0.3%	5	
Solids, Total Dissolved	2540CE	12/08/2023:213823CTL	Blank	mg/L		ND	<20	
			LCS	mg/L	991.5	99.5%	90-110	
		(SP 2320140-001)	Dup	mg/L		0.6%	5	
		(SP 2320140-001)	Dup	mg/L		0.2%	5	
	2540CE	12/11/2023:213920CTL	Blank	mg/L		ND	<20	
			LCS	mg/L	991.5	103%	90-110	
		(SP 2320226-003)	Dup	mg/L		0.7%	5	
		(SP 2320226-003)	Dup	mg/L		1.24%	5	
Chloride	300.0	12/07/2023:213855LDM	Blank	mg/L		ND	<1	
			LCS	mg/L	25.00	103%	90-110	
			MS	mg/L	0.000	0.0%	<¼	
			MSD	mg/L	0.000	0.0%	<¼	
		(VI 2348127-004)	MSRPD	mg/L		0.0%	≤7	
			MS	mg/L	0.000	0.0%	<¼	
			MSD	mg/L	0.000	0.0%	<¼	
			MSRPD	mg/L		0.0%	≤7	
Nitrate Nitrogen	300.0	12/07/2023:213855LDM	Blank	mg/L		ND	<0.4	
			LCS	mg/L	20.00	105%	90-110	
			MS	mg/L	0.000	0.0%	<¼	
			MSD	mg/L	0.000	0.0%	<¼	
		(VI 2348127-004)	MSRPD	mg/L		0.0%	≤7	
			MS	mg/L	0.000	0.0%	<¼	
			MSD	mg/L	0.000	0.0%	<¼	
			MSRPD	mg/L		0.0%	≤7	
Sulfate Sulfur	300.0	12/07/2023:213855LDM	Blank	mg/L		ND	<0.5	
			LCS	mg/L	50.00	103%	90-110	
			MS	mg/L	0.000	0.0%	<¼	
			MSD	mg/L	0.000	0.0%	<¼	
		(VI 2348127-004)	MSRPD	mg/L		0.0%	≤7	
			MS	mg/L	0.000	0.0%	<¼	
			MSD	mg/L	0.000	0.0%	<¼	
			MSRPD	mg/L		0.0%	≤7	
Nitrogen, Total Kjeldahl	351.2	12/19/2023:214307LCR	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	
		(CH 2390336-007)	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	
Nitrate + Nitrite as N	4500NO3F	12/07/2023:213812LFS	Blank	mg/L		ND	<0.4	
			LCS	mg/L	11.22	101%	80-120	
			MS	mg/L	5.609	97.9%	66-125	
			MSD	mg/L	5.609	94.8%	66-125	
			MSRPD	mg/L		1.5%	≤30.4	

Quality Control - Wet Chem

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Nitrate Nitrogen	4500NO3F	12/07/2023:213812LFS (STK2356665-002)	Blank	mg/L		ND	<0.4	
			LCS	mg/L	11.22	101%	80-120	
			MS	mg/L	5.609	97.9%	66-125	
			MSD	mg/L	5.609	94.8%	66-125	
			MSRPD	mg/L		1.5%	≤30.4	

Definition

<¼	: High Sample Background - Spike concentration was less than one forth of the sample concentration.
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

3465

2348247

SITE NAME: Oakview

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) *7.8° C ROE*
W5 EC, NO₃N, TDS, TN, Ca, Mg, Na, HCO₃, CO₃, SO₄S, Cl (Irr, GM)
W6 NO₃N, NO₂ (Dom ILRP, Annually)
W7 Ca, Mg, Na, K, HCO₃, CO₃, SO₄, Cl + Lab Filtering (GWM) *TH 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	Dairy N	Domestic	W1	12/6/23 9:15	Brandon	8	
2	RD1		W1	9:25			
3	DI		W1	9:20			
4	Dom MR		W4	9:10			
5	Irr#15	Irrigation	W2	9:25			
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		SAJ		12/6/23 12:48
2 nd	AB	FGL	12/6/23 12:47	
3 rd	ASB	FGL		12/6/23 17:30
4 th	LS	LS	12/6/23 17:30	

LABORATORY USE ONLY

Logged In By: _____ Total Samples: _____ Laboratory No.: 61 12/6/23

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): STK

2. Temp IR Gun ID #: TH 407

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): 5105101401, 5105101413

2. Temp IR Gun ID #: 260

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): ll

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: _____

(4019696)

Sentry Ag Service

VI 2348247

iv 12/07/2023 09:03:20



01 2348247

ATTACHMENT D

Manure/Process Wastewater Tracking Manifest For Existing Milk Cow Dairies

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-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: Edwin Koetsier

Name of Dairy Facility: Oakview Dairy

Facility Address: 6775 Ave 232 Tulare 93274
Number and Street City Zip Code

Contact Person Name and Phone Number: Edwin 559-972-0107
Name Phone Number

Manure/Process Wastewater Hauler Information:

Name of Hauling Company/Person: Crescent Trucking

Address of Hauling Company /Person: 2695 Enterprise St Tulare 93274
Number and Street City Zip Code

Contact Person: Self 559-269-7491
Name Phone Number

Destination Information:

Composting Facility / Broker / Farmer / Other (Identify) _____ (please circle one)

Contact information of Composting Facility, Broker, Farmer, or Other (as identified above):
Toold-Roseblom Ranchery 1745 N. Hughes Fresno 93705 559-256-3900
Name Number and Street City Zip Code Phone Number

Manure/Process Wastewater Destination Address or Assessor's Parcel Number:

Number and Street City Zip Code Assessor's Parcel Number

Dates Hauled: July 23 - Nov 23

Amount Hauled:

Enter the amount of manure hauled in tons or cubic yards (indicate the units used), the manure solids content (if amount reported in tons) or manure density (if amount reported in cubic yards), and the method used to calculate the amount:

Manure: 4,915 Tons or Cubic Yards (indicate which units used)

Manure Solids Content (if amount reported in tons): 64.3%

Manure Density (if amount reported in cubic yards): _____

Method used to determine amount of manure: _____

Scale

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

Process Wastewater: _____ Gallons

Method used to determine volume of process wastewater: _____

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? (please check one)

____ Yes ____ 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 the 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's Signature: _____

Edmund Hoebler

Date: _____

6/11/24

Hauler's Signature: _____

[Signature]

Date: _____

6/11/24