

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: J&F Martins Dairy #2

Physical address of dairy:

541 East Wood AVE

Number and Street

Laton

Kings

93242

City

County

Zip Code

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

Date facility was originally placed in operation: 05/01/1991

Regional Water Quality Control Board Basin Plan designation: Tulare Basin

County Assessor Parcel Number(s) for dairy facility:

X055-X450-X045-XXXX

B. OPERATORS

Martins, Joe

Operator name: Martins, Joe

Telephone no.: (559) 303-4244

Landline

Cellular

541 East Wood AVE

Laton

CA

93242

Mailing Address Number and Street

City

State

Zip Code

This operator is responsible for paying permit fees.

C. OWNERS

Martins, Joe

Legal owner name: Martins, Joe

Telephone no.: (559) 303-4244

Landline

Cellular

541 East Wood AVE

Laton

CA

93242

Mailing Address Number and Street

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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	435	35	270	180	0	0
Number under roof	0	0	0	0	0	0
Maximum number	445	40	290	225	0	0
Average number	435	35	270	180	0	0
Avg live weight (lbs)	1,400	1,450	1,000	750		

Predominant milk cow breed: Jersey-Holstein CrossAverage milk production: 75 pounds per cow per day**B. MANURE GENERATED**Total manure excreted by the herd: 16,482.86 tons per reporting periodTotal nitrogen from manure: 198,320.29 lbs per reporting periodAfter ammonia losses (30% loss applied): 138,824.20 lbs per reporting periodTotal phosphorus from manure: 33,382.17 lbs per reporting periodTotal potassium from manure: 84,735.49 lbs per reporting periodTotal salt from manure: 212,868.00 lbs per reporting period**C. PROCESS WASTEWATER GENERATED**Process wastewater generated: 38,016,847 gallonsTotal nitrogen generated: 67,825.59 lbsTotal phosphorus generated: 9,282.93 lbsTotal potassium generated: 66,265.82 lbsTotal salt generated: 357,139.16 lbs

<u>38,016,847 gallons applied</u>	
+	<u>0 gallons exported</u>
-	<u>0 gallons imported</u>
=	<u>38,016,847 gallons generated</u>

D. FRESH WATER SOURCES

Source Description	Type
Ag 1	Ground water
Ag 2	Ground water
Ag 3	Ground water
Ag 4	Ground water
Ag 5	Ground water

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Source Description	Type
Ag 6	Ground water
Ag 7	Ground water
DW 10	Ground water
House	Ground water
Laguna I.D.	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

No solid nutrient exports entered.

No liquid nutrient exports entered.

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APPLICATION AREA

A. LIST OF LAND APPLICATION AREAS

Field name	Controlled acres	Cropable acres	Total harvests	Type of waste applied	Parcel number
1	15	15	2	both	X055-X450-X015-XXXX X055-X450-X016-XXXX X055-X450-X017-XXXX
10	50	49	1	none	X055-X260-X49S-XXXX
11	19	15	2	both	X055-X450-X038-XXXX
2	39	39	2	both	X055-X450-X08S-XXXX
3	10	10	2	both	X055-X450-X045-XXXX
4	19	19	2	both	X055-X450-X20S-XXXX
5	10	10	2	both	X055-X450-X033-XXXX
6	17	15	2	both	X055-X450-X013-XXXX
7	16	15	2	both	X055-X450-X042-XXXX
8	37	36	2	both	X055-X003-X016-XXXX
9	28	27	2	both	X055-X003-X010-XXXX
Totals for areas that were used for application	210	201	20		
Totals for areas that were not used for application	50	49	1		
Land application area totals	260	250	21		

B. CROPS AND HARVESTS

1																				
Field name: 1																				
11/10/2022: Wheat, silage, soft dough																				
Crop: Wheat, silage, soft dough Acres planted: 15 Plant date: 11/10/2022																				
<table border="1"> <thead> <tr> <th>Harvest date</th><th>Yield</th><th>Reporting basis</th><th>Density (lbs/cu ft)</th><th>Moisture (%)</th><th>N (mg/kg)</th><th>P (mg/kg)</th><th>K (mg/kg)</th><th>Salt (mg/kg)</th><th>TFS (%)</th></tr> </thead> <tbody> <tr> <td>04/11/2023</td><td>300.00 ton</td><td>Dry-weight</td><td></td><td>73.5</td><td>17,800.00</td><td>4,600.00</td><td>26,000.00</td><td></td><td>14.20</td></tr> </tbody> </table>	Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)	04/11/2023	300.00 ton	Dry-weight		73.5	17,800.00	4,600.00	26,000.00		14.20
Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)											
04/11/2023	300.00 ton	Dry-weight		73.5	17,800.00	4,600.00	26,000.00		14.20											
<table border="1"> <thead> <tr> <th></th><th>Yield (tons/acre)</th><th>Total N (lbs/acre)</th><th>Total P (lbs/acre)</th><th>Total K (lbs/acre)</th><th>Salt (lbs/acre)</th></tr> </thead> <tbody> <tr> <td>Anticipated harvest content</td><td>18.00</td><td>198.00</td><td>30.60</td><td>149.40</td><td>1,494.00</td></tr> <tr> <td>Total actual harvest content</td><td>20.00</td><td>188.68</td><td>48.76</td><td>275.60</td><td>1,505.20</td></tr> </tbody> </table>		Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)	Anticipated harvest content	18.00	198.00	30.60	149.40	1,494.00	Total actual harvest content	20.00	188.68	48.76	275.60	1,505.20		
	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)															
Anticipated harvest content	18.00	198.00	30.60	149.40	1,494.00															
Total actual harvest content	20.00	188.68	48.76	275.60	1,505.20															

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1

04/20/2023: Corn, silage

Crop: Corn, silage Acres planted: 15 Plant date: 04/20/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
08/02/2023	435.00 ton	Dry-weight		61.9	12,300.00	1,900.00	5,400.00		4.87

	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	29.00	271.81	41.99	119.33	1,076.17

10

Field name: 10

03/01/2021: Alfalfa, hay

Crop: Alfalfa, hay Acres planted: 49 Plant date: 03/01/2021

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
11/06/2023	416.00 ton	Dry-weight		9.3	37,900.00	3,100.00	22,700.00		16.60

	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	8.49	583.68	47.74	349.59	2,556.48

11

Field name: 11

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11

11/26/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 15 Plant date: 11/26/2022

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	305.00 ton	Dry-weight		65.0	11,300.00	2,700.00	11,200.00		7.01

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
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Anticipated harvest content	18.00	198.00	30.60	149.40	1,494.00
Total actual harvest content	20.33	160.84	38.43	159.41	997.76

05/20/2023: Corn, silage

Crop: Corn, silage Acres planted: 15 Plant date: 05/20/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
08/02/2023	378.00 ton	Dry-weight		59.9	11,100.00	2,100.00	4,900.00		3.90

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
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Anticipated harvest content	30.00	240.00	45.00	198.00	1,500.00
Total actual harvest content	25.20	224.34	42.44	99.03	788.21

2

Field name: 2

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

Crop: Wheat, silage, soft dough Acres planted: 39 Plant date: 11/15/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/12/2023	830.00 ton	Dry-weight		66.7	14,200.00	2,700.00	15,000.00		6.86

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
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Anticipated harvest content	18.00	198.00	30.60	149.40	1,494.00
Total actual harvest content	21.28	201.27	38.27	212.61	972.33

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2

06/05/2023: Corn, silage

Crop: Corn, silage Acres planted: 39 Plant date: 06/05/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/27/2023	1,092.00 <i>ton</i>	Dry-weight		71.1	10,200.00	22,000.00	9,100.00		6.61

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	1,500.00
Total actual harvest content	28.00	165.08	356.05	147.27	1,069.76

3

Field name: 3

11/25/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 10 Plant date: 11/25/2022

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	200.00 <i>ton</i>	Dry-weight		67.0	13,900.00	3,000.00	16,800.00		7.18

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	1,494.00
Total actual harvest content	20.00	183.48	39.60	221.76	947.76

05/25/2023: Corn, silage

Crop: Corn, silage Acres planted: 10 Plant date: 05/25/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/01/2023	280.00 <i>ton</i>	Dry-weight		70.7	10,100.00	1,900.00	9,500.00		5.53

	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	28.00	165.72	31.18	155.88	907.36

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4

Field name: 4

11/25/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 19 Plant date: 11/25/2022

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	391.00 ton	Dry-weight		67.2	13,200.00	2,800.00	14,400.00		6.88

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	1,494.00
Total actual harvest content	20.58	178.20	37.80	194.40	928.79

05/25/2023: Corn, silage

Crop: Corn, silage Acres planted: 19 Plant date: 05/25/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/01/2023	551.00 ton	Dry-weight		70.2	9,100.00	1,900.00	9,000.00		5.14

	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	29.00	157.28	32.84	155.56	888.40

5

Field name: 5

11/25/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 10 Plant date: 11/25/2022

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	214.00 ton	Dry-weight		64.5	11,900.00	2,800.00	11,600.00		6.97

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	1,494.00
Total actual harvest content	21.40	180.81	42.54	176.25	1,059.02

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5

05/25/2023: Corn, silage

Crop: Corn, silage Acres planted: 10 Plant date: 05/25/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/01/2023	280.00 ton	Dry-weight		70.7	9,800.00	1,900.00	8,500.00		5.06

	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	28.00	160.80	31.18	139.47	830.24

6

Field name: 6

10/26/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 15 Plant date: 10/26/2022

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	320.00 ton	Dry-weight		65.3	12,400.00	3,000.00	13,800.00		6.38

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	1,494.00
Total actual harvest content	21.33	183.59	44.42	204.31	944.58

05/26/2023: Corn, silage

Crop: Corn, silage Acres planted: 15 Plant date: 05/26/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
08/02/2023	378.00 ton	Dry-weight		60.1	12,000.00	2,100.00	5,200.00		4.25

	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	25.20	241.32	42.23	104.57	854.66

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7Field name: 7

10/26/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 15 Plant date: 10/26/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/12/2023	307.00 ton	Dry-weight		67.0	14,900.00	2,900.00	16,000.00		7.60

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	1,494.00
Total actual harvest content	20.47	201.27	39.17	216.13	1,026.61

05/28/2023: Corn, silage

Crop: Corn, silage Acres planted: 15 Plant date: 05/28/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/01/2023	435.00 ton	Dry-weight		70.2	8,700.00	1,800.00	8,000.00		4.79

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	1,500.00
Total actual harvest content	29.00	150.37	31.11	138.27	827.90

8Field name: 8

10/27/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 36 Plant date: 10/27/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/12/2023	756.00 ton	Dry-weight		66.9	13,400.00	2,800.00	16,500.00		7.67

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	1,494.00
Total actual harvest content	21.00	186.29	38.93	229.38	1,066.28

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05/28/2023: Corn, silage

Crop: Corn, silage Acres planted: 36 Plant date: 05/28/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/01/2023	1,026.00 <i>ton</i>	Dry-weight		70.0	8,200.00	1,900.00	9,100.00		5.34

	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	140.22	32.49	155.61	913.14

9

Field name: 9

10/28/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 27 Plant date: 10/28/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/12/2023	567.00 <i>ton</i>	Dry-weight		66.9	12,400.00	2,700.00	13,300.00		7.47

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	1,494.00
Total actual harvest content	21.00	172.38	37.54	184.90	1,038.48

06/01/2023: Corn, silage

Crop: Corn, silage Acres planted: 27 Plant date: 06/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/27/2023	770.00 <i>ton</i>	Dry-weight		69.5	10,900.00	2,200.00	7,800.00		5.09

	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	28.52	189.62	38.27	135.69	885.47

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NUTRIENT BUDGET**A. LAND APPLICATIONS**

1 - 11/10/2022: Wheat, silage, soft dough

Field name: 1

Crop: Wheat, silage, soft dough

Plant date: 11/10/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
11/17/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Lagoon	Process wastewater	136.59	18.87	110.86	860.57
Laguna I.D.	Surface water	0.00	0.00	0.00	54.64
Application event totals		136.59	18.87	110.86	915.21
03/01/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Lagoon	Process wastewater	87.16	16.64	99.16	596.69
Laguna I.D.	Surface water	0.00	0.00	0.00	58.83
Application event totals		87.16	16.64	99.16	655.52

1 - 04/20/2023: Corn, silage

Field name: 1

Crop: Corn, silage

Plant date: 04/20/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
04/12/2023	Broadcast/incorporate	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Corral	Corral solids	171.67	62.42	248.78	3,001.86
Application event totals		171.67	62.42	248.78	3,001.86

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

1 - 04/20/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/03/2023	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
Lagoon	Process wastewater	38.52	4.58	37.84	169.94	407,295.00 gal
Laguna I.D.	Surface water	0.00	0.00	0.00	57.02	2,562,311.00 gal
Application event totals		38.52	4.58	37.84	226.96	
05/15/2023	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
Laguna I.D.	Surface water	0.00	0.00	0.00	55.29	2,484,499.00 gal
Application event totals		0.00	0.00	0.00	55.29	
06/01/2023	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	45.49	5.40	44.68	200.67	480,942.00 gal
Laguna I.D.	Surface water	0.00	0.00	0.00	62.06	2,788,663.00 gal
Application event totals		45.49	5.40	44.68	262.73	
06/22/2023	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	53.93	6.41	52.98	237.92	570,213.00 gal
Laguna I.D.	Surface water	0.00	0.00	0.00	59.52	2,674,499.00 gal
Application event totals		53.93	6.41	52.98	297.44	
07/13/2023	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	38.52	4.58	37.84	169.94	407,295.00 gal
Laguna I.D.	Surface water	0.00	0.00	0.00	64.33	2,890,852.00 gal
Application event totals		38.52	4.58	37.84	234.27	

10 - 03/01/2021: Alfalfa, hay

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

10 - 03/01/2021: Alfalfa, hay

Field name: 10

Crop: Alfalfa, hay

Plant date: 03/01/2021

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
04/10/2023	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
Laguna I.D.	Surface water	0.00	0.00	0.00	51.65	7,581,634.00 gal
Application event totals		0.00	0.00	0.00	51.65	
05/09/2023	Surface (irrigation)	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
Laguna I.D.	Surface water	0.00	0.00	0.00	52.89	7,764,684.00 gal
Application event totals		0.00	0.00	0.00	52.89	
06/10/2023	Surface (irrigation)	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
Laguna I.D.	Surface water	0.00	0.00	0.00	52.86	7,759,932.00 gal
Application event totals		0.00	0.00	0.00	52.86	
07/05/2023	Surface (irrigation)	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
Laguna I.D.	Surface water	0.00	0.00	0.00	53.63	7,872,982.00 gal
Application event totals		0.00	0.00	0.00	53.63	
08/04/2023	Surface (irrigation)	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
Laguna I.D.	Surface water	0.00	0.00	0.00	54.41	7,986,882.00 gal
Application event totals		0.00	0.00	0.00	54.41	
09/04/2023	Surface (irrigation)	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
Laguna I.D.	Surface water	0.00	0.00	0.00	53.00	7,780,783.00 gal
Application event totals		0.00	0.00	0.00	53.00	

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

11 - 11/26/2022: Wheat, silage, soft dough

Field name: 11

Crop: Wheat, silage, soft dough

Plant date: 11/26/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
10/31/2022	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Solid Manure	Corral solids	121.03	37.67	100.44	1,642.19	45.00 ton
Application event totals		121.03	37.67	100.44	1,642.19	
11/02/2022	Surface (irrigation)	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
Laguna I.D.	Surface water	0.00	0.00	0.00	52.57	2,362,311.00 gal
Application event totals		0.00	0.00	0.00	52.57	
03/05/2023	Surface (irrigation)	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	87.78	16.76	99.86	600.92	529,483.00 gal
Laguna I.D.	Surface water	0.00	0.00	0.00	55.29	2,484,499.00 gal
Application event totals		87.78	16.76	99.86	656.21	
04/03/2023	Surface (irrigation)	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
Laguna I.D.	Surface water	0.00	0.00	0.00	53.48	2,403,040.00 gal
Application event totals		0.00	0.00	0.00	53.48	

11 - 05/20/2023: Corn, silage

Field name: 11

Crop: Corn, silage

Plant date: 05/20/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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11 - 05/20/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/07/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	55.68	6.62	54.70	245.66	588,754.00 gal
Laguna I.D.	Surface water	0.00	0.00	0.00	50.76	2,280,852.00 gal
Application event totals		55.68	6.62	54.70	296.41	
06/09/2023	Surface (irrigation)	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
Laguna I.D.	Surface water	0.00	0.00	0.00	56.19	2,525,229.00 gal
Application event totals		0.00	0.00	0.00	56.19	
06/24/2023	Surface (irrigation)	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	65.21	7.75	64.06	287.69	689,483.00 gal
Laguna I.D.	Surface water	0.00	0.00	0.00	61.95	2,783,770.00 gal
Application event totals		65.21	7.75	64.06	349.63	
07/07/2023	Surface (irrigation)	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	57.78	6.87	56.76	254.92	610,942.00 gal
Laguna I.D.	Surface water	0.00	0.00	0.00	57.10	2,565,958.00 gal
Application event totals		57.78	6.87	56.76	312.02	
07/18/2023	Surface (irrigation)	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	53.93	6.41	52.98	237.92	570,213.00 gal
Laguna I.D.	Surface water	0.00	0.00	0.00	52.57	2,362,311.00 gal
Application event totals		53.93	6.41	52.98	290.49	

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

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

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

Field name: 2

Crop: Wheat, silage, soft dough

Plant date: 11/15/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/10/2022	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Solid Manure	Corral solids	121.03	37.67	100.44	1,642.19	117.00 ton
Application event totals		121.03	37.67	100.44	1,642.19	
11/18/2022	Surface (irrigation)	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	77.03	10.64	62.52	485.33	807,174.00 gal
Laguna I.D.	Surface water	0.00	0.00	0.00	51.66	6,036,112.00 gal
Application event totals		77.03	10.64	62.52	536.99	
03/10/2023	Surface (irrigation)	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	57.58	11.00	65.51	394.20	903,070.00 gal
Laguna I.D.	Surface water	0.00	0.00	0.00	53.43	6,242,009.00 gal
Application event totals		57.58	11.00	65.51	447.62	
04/04/2023	Surface (irrigation)	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
Laguna I.D.	Surface water	0.00	0.00	0.00	49.75	5,812,525.00 gal
Application event totals		0.00	0.00	0.00	49.75	

2 - 06/05/2023: Corn, silage

Field name: 2

Crop: Corn, silage

Plant date: 06/05/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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2 - 06/05/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/17/2023	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
Lagoon	Process wastewater	42.59	5.06	41.84	187.88	1,170,760.00 gal
Laguna I.D.	Surface water	0.00	0.00	0.00	55.02	6,427,905.00 gal
Application event totals		42.59	5.06	41.84	242.90	
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
Lagoon	Process wastewater	56.56	6.72	55.56	249.53	1,554,864.00 gal
Laguna I.D.	Surface water	0.00	0.00	0.00	56.04	6,547,905.00 gal
Application event totals		56.56	6.72	55.56	305.57	
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
Lagoon	Process wastewater	63.69	7.57	62.56	280.96	1,750,760.00 gal
Laguna I.D.	Surface water	0.00	0.00	0.00	52.58	6,143,802.00 gal
Application event totals		63.69	7.57	62.56	333.55	
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
Lagoon	Process wastewater	45.65	5.42	44.84	201.38	1,254,864.00 gal
Laguna I.D.	Surface water	0.00	0.00	0.00	52.36	6,117,905.00 gal
Application event totals		45.65	5.42	44.84	253.74	
08/13/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Laguna I.D.	Surface water	0.00	0.00	0.00	52.57	6,142,009.00 gal
Application event totals		0.00	0.00	0.00	52.57	

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2 - 06/05/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
09/01/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Laguna I.D.	Surface water	0.00	0.00	0.00	50.76
Application event totals		0.00	0.00	0.00	50.76

3 - 11/25/2022: Wheat, silage, soft dough

Field name: 3

Crop: Wheat, silage, soft dough Plant date: 11/25/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
11/18/2022	Broadcast/incorporate	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Solid Manure	Corral solids	121.03	37.67	100.44	1,642.19
Application event totals		121.03	37.67	100.44	1,642.19
11/28/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Lagoon	Process wastewater	50.53	6.98	41.01	318.36
Laguna I.D.	Surface water	0.00	0.00	0.00	52.62
Application event totals		50.53	6.98	41.01	370.98
03/07/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Lagoon	Process wastewater	71.04	13.57	80.82	486.34
Laguna I.D.	Surface water	0.00	0.00	0.00	51.86
Application event totals		71.04	13.57	80.82	538.20

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3 - 11/25/2022: Wheat, silage, soft dough

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
Laguna I.D.	Surface water	0.00	0.00	0.00	50.76	1,520,568.00 gal
Application event totals		0.00	0.00	0.00	50.76	

3 - 05/25/2023: Corn, silage

Field name: 3

Crop: Corn, silage

Plant date: 05/25/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/08/2023	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	42.37	5.03	41.62	186.94	298,683.00 gal
Laguna I.D.	Surface water	0.00	0.00	0.00	56.96	1,706,333.00 gal
Application event totals		42.37	5.03	41.62	243.90	
06/10/2023	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	50.28	5.97	49.40	221.84	354,448.00 gal
Laguna I.D.	Surface water	0.00	0.00	0.00	55.24	1,654,874.00 gal
Application event totals		50.28	5.97	49.40	277.08	
06/28/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	39.74	4.72	39.04	175.33	280,142.00 gal
Laguna I.D.	Surface water	0.00	0.00	0.00	54.38	1,629,180.00 gal
Application event totals		39.74	4.72	39.04	229.72	

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3 - 05/25/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
07/10/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	40.65	4.83	39.93	179.33	286,530.00 gal
Laguna I.D.	Surface water	0.00	0.00	0.00	51.09	1,530,568.00 gal
Application event totals		40.65	4.83	39.93	230.42	
07/26/2023	Surface (irrigation)	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	35.62	4.23	34.99	157.14	251,071.00 gal
Laguna I.D.	Surface water	0.00	0.00	0.00	44.13	1,322,027.00 gal
Application event totals		35.62	4.23	34.99	201.27	
08/13/2023	Surface (irrigation)	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
Laguna I.D.	Surface water	0.00	0.00	0.00	52.57	1,574,874.00 gal
Application event totals		0.00	0.00	0.00	52.57	

4 - 11/25/2022: Wheat, silage, soft dough

Field name: 4

Crop: Wheat, silage, soft dough

Plant date: 11/25/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/18/2022	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Corral	Corral solids	121.03	37.67	100.44	1,642.19	57.00 ton
Application event totals		121.03	37.67	100.44	1,642.19	

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4 - 11/25/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/29/2022	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	61.73	8.53	50.10	388.93	315,135.00 gal
Laguna I.D.	Surface water	0.00	0.00	0.00	53.60	3,050,670.00 gal
Application event totals		61.73	8.53	50.10	442.53	
03/09/2023	Surface (irrigation)	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	53.13	10.14	60.44	363.69	405,907.00 gal
Laguna I.D.	Surface water	0.00	0.00	0.00	53.15	3,025,442.00 gal
Application event totals		53.13	10.14	60.44	416.84	
04/07/2023	Surface (irrigation)	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
Laguna I.D.	Surface water	0.00	0.00	0.00	49.23	2,802,260.00 gal
Application event totals		0.00	0.00	0.00	49.23	

4 - 05/25/2023: Corn, silage

Field name:	4	Plant date:	05/25/2023	
Crop:	Corn, silage			
Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
05/09/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)
Lagoon	Process wastewater	29.11	3.46	28.60
Laguna I.D.	Surface water	0.00	0.00	0.00
Application event totals		29.11	3.46	28.60
				179.24

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4 - 05/25/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/15/2023	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	45.58	5.42	44.78	201.09	610,451.00 gal
Laguna I.D.	Surface water	0.00	0.00	0.00	57.17	3,253,851.00 gal
Application event totals		45.58	5.42	44.78	258.25	
07/02/2023	Surface (irrigation)	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	37.77	4.49	37.10	166.63	505,860.00 gal
Laguna I.D.	Surface water	0.00	0.00	0.00	53.68	3,055,442.00 gal
Application event totals		37.77	4.49	37.10	220.31	
07/15/2023	Surface (irrigation)	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	31.89	3.79	31.32	140.67	427,042.00 gal
Laguna I.D.	Surface water	0.00	0.00	0.00	43.08	2,452,261.00 gal
Application event totals		31.89	3.79	31.32	183.75	
07/27/2023	Surface (irrigation)	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	31.26	3.71	30.71	137.90	418,633.00 gal
Laguna I.D.	Surface water	0.00	0.00	0.00	48.92	2,784,307.00 gal
Application event totals		31.26	3.71	30.71	186.82	
08/15/2023	Surface (irrigation)	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
Laguna I.D.	Surface water	0.00	0.00	0.00	56.47	3,214,307.00 gal
Application event totals		0.00	0.00	0.00	56.47	

5 - 11/25/2022: Wheat, silage, soft dough

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

5 - 11/25/2022: Wheat, silage, soft dough

Field name: 5

Crop: Wheat, silage, soft dough

Plant date: 11/25/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/18/2022	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Solid Manure	Corral solids	121.03	37.67	100.44	1,642.19	30.00 ton
Application event totals		121.03	37.67	100.44	1,642.19	
11/30/2022	Surface (irrigation)	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	67.23	9.29	54.57	423.61	180,647.00 gal
Laguna I.D.	Surface water	0.00	0.00	0.00	52.19	1,563,486.00 gal
Application event totals		67.23	9.29	54.57	475.80	
03/04/2023	Surface (irrigation)	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	52.60	10.04	59.84	360.10	211,530.00 gal
Laguna I.D.	Surface water	0.00	0.00	0.00	58.29	1,746,333.00 gal
Application event totals		52.60	10.04	59.84	418.40	
04/03/2023	Surface (irrigation)	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
Laguna I.D.	Surface water	0.00	0.00	0.00	51.66	1,547,721.00 gal
Application event totals		0.00	0.00	0.00	51.66	

5 - 05/25/2023: Corn, silage

Field name: 5

Crop: Corn, silage

Plant date: 05/25/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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5 - 05/25/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/10/2023	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	34.63	4.11	34.01	152.76	244,071.00 gal
Laguna I.D.	Surface water	0.00	0.00	0.00	44.27	1,326,333.00 gal
Application event totals		34.63	4.11	34.01	197.03	
06/09/2023	Surface (irrigation)	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	38.44	4.57	37.77	169.61	270,989.00 gal
Laguna I.D.	Surface water	0.00	0.00	0.00	54.14	1,622,027.00 gal
Application event totals		38.44	4.57	37.77	223.75	
06/25/2023	Surface (irrigation)	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	35.68	4.24	35.05	157.43	251,530.00 gal
Laguna I.D.	Surface water	0.00	0.00	0.00	50.76	1,520,639.00 gal
Application event totals		35.68	4.24	35.05	208.19	
07/06/2023	Surface (irrigation)	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	35.51	4.22	34.88	156.65	250,295.00 gal
Laguna I.D.	Surface water	0.00	0.00	0.00	51.86	1,553,486.00 gal
Application event totals		35.51	4.22	34.88	208.51	
07/19/2023	Surface (irrigation)	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	46.22	5.49	45.41	203.93	325,836.00 gal
Laguna I.D.	Surface water	0.00	0.00	0.00	58.63	1,756,333.00 gal
Application event totals		46.22	5.49	45.41	262.56	

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5 - 05/25/2023: 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
Laguna I.D.	Surface water	0.00	0.00	0.00	55.43	1,660,568.00 gal
Application event totals		0.00	0.00	0.00	55.43	

6 - 10/26/2022: Wheat, silage, soft dough

Field name: 6

Crop: Wheat, silage, soft dough Plant date: 10/26/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
08/26/2022	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Solid Manure	Corral solids	121.03	37.67	100.44	1,642.19	45.00 ton
Application event totals		121.03	37.67	100.44	1,642.19	
10/01/2022	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	70.79	9.78	57.46	446.00	285,295.00 gal
Laguna I.D.	Surface water	0.00	0.00	0.00	54.37	2,443,040.00 gal
Application event totals		70.79	9.78	57.46	500.37	
03/03/2023	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
Lagoon	Process wastewater	48.96	9.35	55.69	335.14	295,295.00 gal
Laguna I.D.	Surface water	0.00	0.00	0.00	60.90	2,736,688.00 gal
Application event totals		48.96	9.35	55.69	396.04	

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6 - 10/26/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
04/01/2023	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
Laguna I.D.	Surface water	0.00	0.00	0.00	46.82	2,103,775.00 gal
Application event totals		0.00	0.00	0.00	46.82	

6 - 05/26/2023: Corn, silage

Field name: 6

Crop: Corn, silage

Plant date: 05/26/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/10/2023	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	59.19	7.03	58.14	261.13	625,836.00 gal
Laguna I.D.	Surface water	0.00	0.00	0.00	58.45	2,626,688.00 gal
Application event totals		59.19	7.03	58.14	319.58	
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
Lagoon	Process wastewater	62.30	7.40	61.20	274.87	658,754.00 gal
Laguna I.D.	Surface water	0.00	0.00	0.00	54.62	2,454,499.00 gal
Application event totals		62.30	7.40	61.20	329.49	
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	60.45	7.18	59.39	266.71	639,213.00 gal
Laguna I.D.	Surface water	0.00	0.00	0.00	58.39	2,623,770.00 gal
Application event totals		60.45	7.18	59.39	325.10	

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6 - 05/26/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
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
Lagoon	Process wastewater	60.79	7.22	59.72	268.19	642,755.00 gal
Laguna I.D.	Surface water	0.00	0.00	0.00	47.37	2,128,852.00 gal
Application event totals		60.79	7.22	59.72	315.56	
07/13/2023	Surface (irrigation)	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	50.08	5.95	49.19	220.93	529,483.00 gal
Laguna I.D.	Surface water	0.00	0.00	0.00	59.25	2,662,311.00 gal
Application event totals		50.08	5.95	49.19	280.17	

7 - 10/26/2022: Wheat, silage, soft dough

Field name: 7

Crop: Wheat, silage, soft dough

Plant date: 10/26/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
08/20/2022	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Solid Manure	Corral solids	121.03	37.67	100.44	1,642.19	45.00 ton
Application event totals		121.03	37.67	100.44	1,642.19	
09/25/2022	Surface (irrigation)	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	79.63	11.00	64.64	501.73	320,942.00 gal
Laguna I.D.	Surface water	0.00	0.00	0.00	61.26	2,753,040.00 gal
Application event totals		79.63	11.00	64.64	562.99	

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7 - 10/26/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
03/09/2023	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
Lagoon	Process wastewater	67.22	12.84	76.47	460.18	405,471.00 gal
Laguna I.D.	Surface water	0.00	0.00	0.00	46.85	2,105,229.00 gal
Application event totals		67.22	12.84	76.47	507.03	
04/10/2023	Surface (irrigation)	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
Laguna I.D.	Surface water	0.00	0.00	0.00	47.22	2,121,946.00 gal
Application event totals		0.00	0.00	0.00	47.22	

7 - 05/28/2023: Corn, silage

Field name: 7

Crop: Corn, silage

Plant date: 05/28/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/14/2023	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
Lagoon	Process wastewater	46.16	5.48	45.34	203.63	488,024.00 gal
Laguna I.D.	Surface water	0.00	0.00	0.00	53.94	2,423,770.00 gal
Application event totals		46.16	5.48	45.34	257.56	
06/18/2023	Surface (irrigation)	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	43.06	5.12	42.30	189.97	455,295.00 gal
Laguna I.D.	Surface water	0.00	0.00	0.00	54.64	2,455,229.00 gal
Application event totals		43.06	5.12	42.30	244.61	

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7 - 05/28/2023: 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
Lagoon	Process wastewater	55.20	10.65	54.41	374.08	470,213.00 gal
Ag 3	Ground water	0.00	0.00	0.00	338.53	2,765,958.00 gal
Application event totals		55.20	10.65	54.41	712.62	
07/18/2023	Surface (irrigation)	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	47.02	5.59	46.19	207.46	497,213.00 gal
Laguna I.D.	Surface water	0.00	0.00	0.00	53.51	2,404,499.00 gal
Application event totals		47.02	5.59	46.19	260.97	
08/01/2023	Surface (irrigation)	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
Laguna I.D.	Surface water	0.00	0.00	0.00	48.80	2,193,040.00 gal
Application event totals		0.00	0.00	0.00	48.80	
08/13/2023	Surface (irrigation)	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
Laguna I.D.	Surface water	0.00	0.00	0.00	55.29	2,484,499.00 gal
Application event totals		0.00	0.00	0.00	55.29	

8 - 10/27/2022: Wheat, silage, soft dough

Field name: 8

Crop: Wheat, silage, soft dough

Plant date: 10/27/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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8 - 10/27/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
09/05/2022	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Solid Manure	Corral solids	121.03	37.67	100.44	1,642.19	108.00 ton
Application event totals		121.03	37.67	100.44	1,642.19	
10/01/2022	Surface (irrigation)	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	60.17	8.31	48.84	379.10	582,006.00 gal
Laguna I.D.	Surface water	0.00	0.00	0.00	55.63	5,999,546.00 gal
Application event totals		60.17	8.31	48.84	434.73	
03/10/2023	Surface (irrigation)	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	66.00	12.60	75.09	451.84	955,508.00 gal
Laguna I.D.	Surface water	0.00	0.00	0.00	53.36	5,755,050.00 gal
Application event totals		66.00	12.60	75.09	505.21	
04/09/2023	Surface (irrigation)	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
Laguna I.D.	Surface water	0.00	0.00	0.00	52.86	5,700,550.00 gal
Application event totals		0.00	0.00	0.00	52.86	

8 - 05/28/2023: Corn, silage

Field name: 8

Crop: Corn, silage

Plant date: 05/28/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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8 - 05/28/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/15/2023	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	38.84	4.61	38.15	171.33	985,508.00 gal
Laguna I.D.	Surface water	0.00	0.00	0.00	52.88	5,702,799.00 gal
Application event totals		38.84	4.61	38.15	224.21	
06/15/2023	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
Laguna I.D.	Surface water	0.00	0.00	0.00	53.83	5,805,048.00 gal
Application event totals		0.00	0.00	0.00	53.83	
07/01/2023	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	47.62	5.66	46.78	210.10	1,208,511.00 gal
Laguna I.D.	Surface water	0.00	0.00	0.00	50.71	5,469,546.00 gal
Application event totals		47.62	5.66	46.78	260.82	
07/14/2023	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	41.75	4.96	41.02	184.20	1,059,514.00 gal
Laguna I.D.	Surface water	0.00	0.00	0.00	53.87	5,809,548.00 gal
Application event totals		41.75	4.96	41.02	238.07	
08/01/2023	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	50.12	5.95	49.23	221.10	1,271,760.00 gal
Laguna I.D.	Surface water	0.00	0.00	0.00	313.05	5,001,796.00 gal
Application event totals		50.12	5.95	49.23	534.15	

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8 - 05/28/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
08/14/2023	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
Laguna I.D.	Surface water	0.00	0.00	0.00	51.55	5,559,546.00 gal
Application event totals		0.00	0.00	0.00	51.55	

9 - 10/28/2022: Wheat, silage, soft dough

Field name: 9

Crop: Wheat, silage, soft dough Plant date: 10/28/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
09/15/2022	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Solid Manure	Corral solids	121.03	37.67	100.44	1,642.19	81.00 ton
Application event totals		121.03	37.67	100.44	1,642.19	
10/01/2022	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	62.45	8.63	50.69	393.49	453,070.00 gal
Laguna I.D.	Surface water	0.00	0.00	0.00	51.58	4,172,160.00 gal
Application event totals		62.45	8.63	50.69	445.07	
03/08/2023	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	46.96	8.97	53.42	321.46	509,848.00 gal
Laguna I.D.	Surface water	0.00	0.00	0.00	63.12	5,105,412.00 gal
Application event totals		46.96	8.97	53.42	384.58	

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

9 - 10/28/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
04/11/2023	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
Laguna I.D.	Surface water	0.00	0.00	0.00	38.39	3,105,473.00 gal
Application event totals		0.00	0.00	0.00	38.39	

9 - 06/01/2023: Corn, silage

Field name: 9

Crop: Corn, silage

Plant date: 06/01/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/16/2023	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	43.25	5.14	42.49	190.81	823,131.00 gal
Laguna I.D.	Surface water	0.00	0.00	0.00	52.57	4,252,160.00 gal
Application event totals		43.25	5.14	42.49	243.38	
06/20/2023	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	45.35	5.39	44.55	200.06	863,070.00 gal
Laguna I.D.	Surface water	0.00	0.00	0.00	54.79	4,432,099.00 gal
Application event totals		45.35	5.39	44.55	254.86	
07/05/2023	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	50.08	5.95	49.19	220.93	953,070.00 gal
Laguna I.D.	Surface water	0.00	0.00	0.00	52.36	4,235,473.00 gal
Application event totals		50.08	5.95	49.19	273.29	

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

9 - 06/01/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
07/21/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon	Process wastewater	51.48	6.12	50.57	227.11	979,757.00 gal
Laguna I.D.	Surface water	0.00	0.00	0.00	49.44	3,998,847.00 gal
Application event totals		51.48	6.12	50.57	276.55	
08/10/2023	Surface (irrigation)	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	51.80	6.15	50.88	228.53	985,848.00 gal
Laguna I.D.	Surface water	0.00	0.00	0.00	58.83	4,758,816.00 gal
Application event totals		51.80	6.15	50.88	287.36	
09/01/2023	Surface (irrigation)	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
Laguna I.D.	Surface water	0.00	0.00	0.00	54.75	4,428,786.00 gal
Application event totals		0.00	0.00	0.00	54.75	

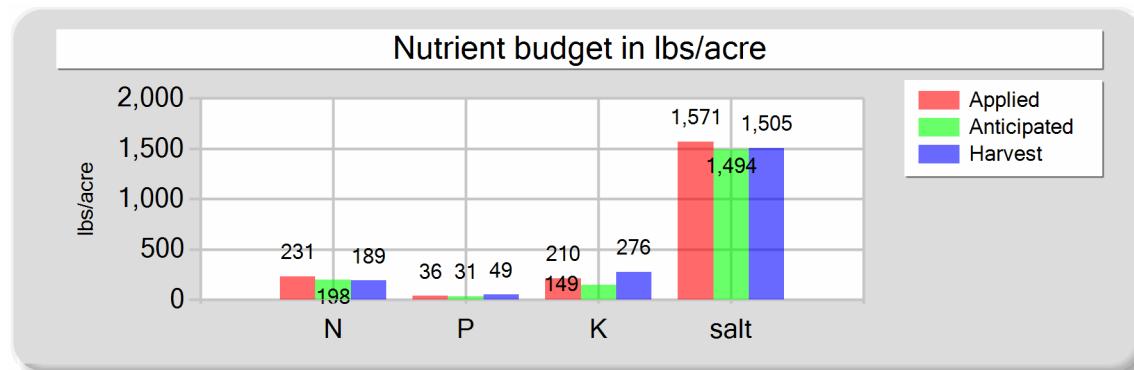
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Reporting period 01/01/2023 to 12/31/2023.

B. NUTRIENT BUDGET

1 - 11/10/2022: Wheat, silage, soft dough

Field name: 1 Crop: Wheat, silage, soft dough Plant date: 11/10/2022



	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	223.75	35.51	210.02	1,457.26
Fresh water	0.00	0.00	0.00	113.47
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	230.75	35.51	210.02	1,570.73
Anticipated crop nutrient removal	198.00	30.60	149.40	1,494.00
Actual crop nutrient removal	188.68	48.76	275.60	1,505.20
Nutrient balance	42.07	-13.25	-65.58	65.53
Applied to removed ratio	1.22	0.73	0.76	1.04

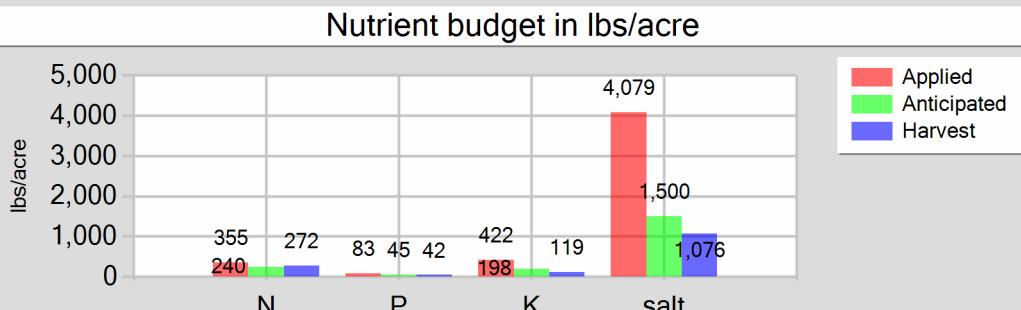
Fresh water applied
5,098,999.00 gallons
187.78 acre-inches
12.52 inches/acre
Process wastewater applied
1,076,237.00 gallons
39.63 acre-inches
2.64 inches/acre
Total harvests for the crop
1 harvests

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

1 - 04/20/2023: Corn, silage

Field name: 1 Crop: Corn, silage Plant date: 04/20/2023



	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	171.67	62.42	248.78	3,001.86
Process wastewater	176.46	20.97	173.34	778.48
Fresh water	0.00	0.00	0.00	298.21
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	355.12	83.39	422.12	4,078.56
Anticipated crop nutrient removal	240.00	45.00	198.00	1,500.00
Actual crop nutrient removal	271.81	41.99	119.33	1,076.17
Nutrient balance	83.32	41.40	302.79	3,002.38
Applied to removed ratio	1.31	1.99	3.54	3.79

Fresh water applied

13,400,824.00 gallons
493.51 acre-inches
32.90 inches/acre

Process wastewater applied

1,865,745.00 gallons
68.71 acre-inches
4.58 inches/acre

Total harvests for the crop

1 harvests

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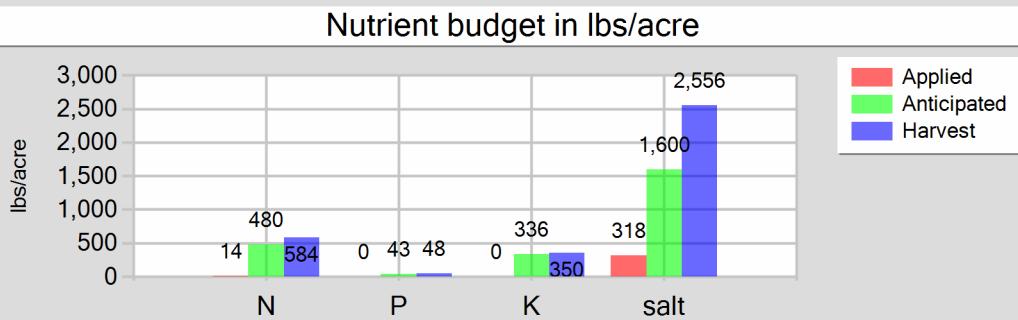
Reporting period 01/01/2023 to 12/31/2023.

10 - 03/01/2021: Alfalfa, hay

Field name: 10

Crop: Alfalfa, hay

Plant date: 03/01/2021



	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	0.00	0.00	0.00	0.00
Fresh water	0.00	0.00	0.00	318.45
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	14.00	0.00	0.00	318.45
Anticipated crop nutrient removal	480.00	43.20	336.00	1,600.00
Actual crop nutrient removal	583.68	47.74	349.59	2,556.48
Nutrient balance	-569.68	-47.74	-349.59	-2,238.03
Applied to removed ratio	0.02	0.00	0.00	0.12

Fresh water applied

46,746,897.00 gallons
1,721.53 acre-inches
35.13 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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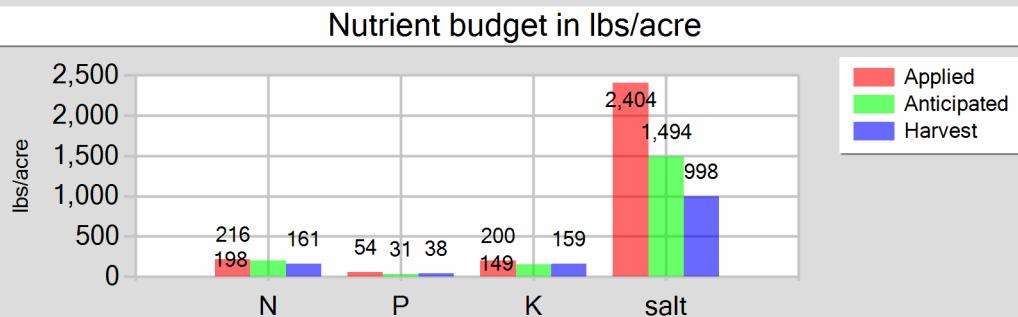
Reporting period 01/01/2023 to 12/31/2023.

11 - 11/26/2022: Wheat, silage, soft dough

Field name: 11

Crop: Wheat, silage, soft dough

Plant date: 11/26/2022



	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	121.03	37.67	100.44	1,642.19
Process wastewater	87.78	16.76	99.86	600.92
Fresh water	0.00	0.00	0.00	161.33
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	215.81	54.43	200.30	2,404.45
Anticipated crop nutrient removal	198.00	30.60	149.40	1,494.00
Actual crop nutrient removal	160.84	38.43	159.41	997.76
Nutrient balance	54.98	16.00	40.89	1,406.69
Applied to removed ratio	1.34	1.42	1.26	2.41

Fresh water applied

7,249,850.00 gallons
266.99 acre-inches
17.80 inches/acre

Process wastewater applied

529,483.00 gallons
19.50 acre-inches
1.30 inches/acre

Total harvests for the crop

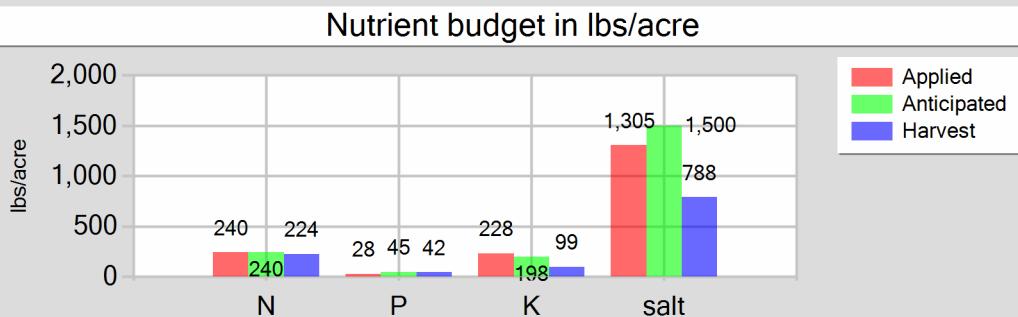
1 harvests

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

11 - 05/20/2023: Corn, silage

Field name: 11 Crop: Corn, silage Plant date: 05/20/2023



	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	232.60	27.64	228.50	1,026.18
Fresh water	0.00	0.00	0.00	278.57
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	239.60	27.64	228.50	1,304.75
Anticipated crop nutrient removal	240.00	45.00	198.00	1,500.00
Actual crop nutrient removal	224.34	42.44	99.03	788.21
Nutrient balance	15.27	-14.80	129.47	516.55
Applied to removed ratio	1.07	0.65	2.31	1.66

Fresh water applied

12,518,120.00 gallons
461.00 acre-inches
30.73 inches/acre

Process wastewater applied

2,459,392.00 gallons
90.57 acre-inches
6.04 inches/acre

Total harvests for the crop

1 harvests

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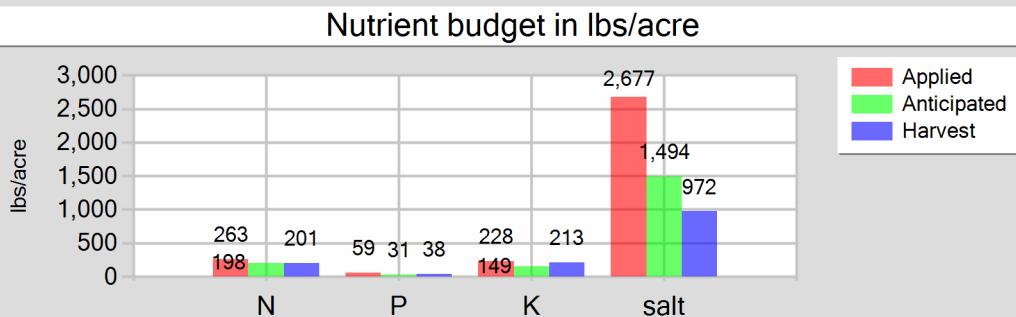
Reporting period 01/01/2023 to 12/31/2023.

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

Field name: 2

Crop: Wheat, silage, soft dough

Plant date: 11/15/2022



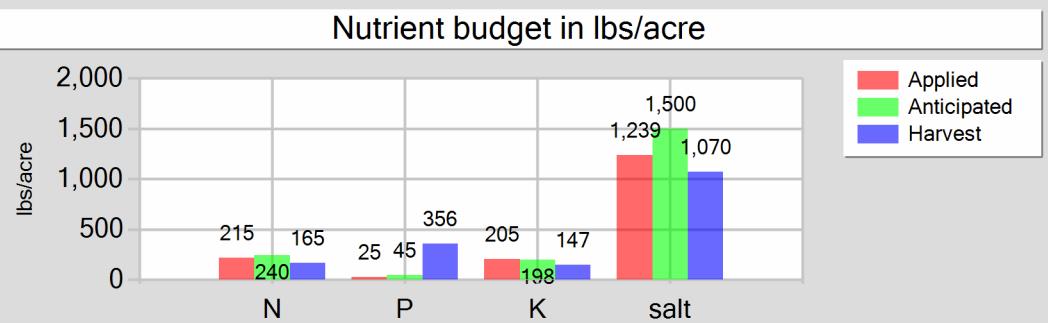
	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	18,090,646.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	666.22 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	17.08 inches/acre
Dry manure	121.03	37.67	100.44	1,642.19	
Process wastewater	134.61	21.63	128.03	879.52	1,710,244.00 gallons
Fresh water	0.00	0.00	0.00	154.84	62.98 acre-inches
Atmospheric deposition	7.00	0.00	0.00	0.00	1.61 inches/acre
Total nutrients applied	262.64	59.30	228.47	2,676.56	
Anticipated crop nutrient removal	198.00	30.60	149.40	1,494.00	
Actual crop nutrient removal	201.27	38.27	212.61	972.33	
Nutrient balance	61.38	21.03	15.86	1,704.23	
Applied to removed ratio	1.30	1.55	1.07	2.75	
Total harvests for the crop					1 harvests

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

2 - 06/05/2023: Corn, silage

Field name: 2 Crop: Corn, silage Plant date: 06/05/2023



	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	208.48	24.77	204.80	919.76
Fresh water	0.00	0.00	0.00	319.33
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	215.48	24.77	204.80	1,239.09
Anticipated crop nutrient removal	240.00	45.00	198.00	1,500.00
Actual crop nutrient removal	165.08	356.05	147.27	1,069.76
Nutrient balance	50.40	-331.28	57.52	169.33
Applied to removed ratio	1.31	0.07	1.39	1.16

Fresh water applied
37,309,741.00 gallons
1,373.99 acre-inches
35.23 inches/acre

Process wastewater applied
5,731,248.00 gallons
211.06 acre-inches
5.41 inches/acre

Total harvests for the crop
1 harvests

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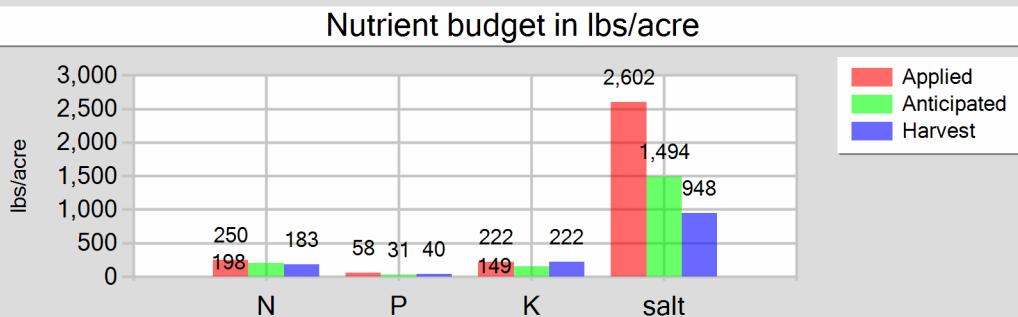
Reporting period 01/01/2023 to 12/31/2023.

3 - 11/25/2022: Wheat, silage, soft dough

Field name: 3

Crop: Wheat, silage, soft dough

Plant date: 11/25/2022



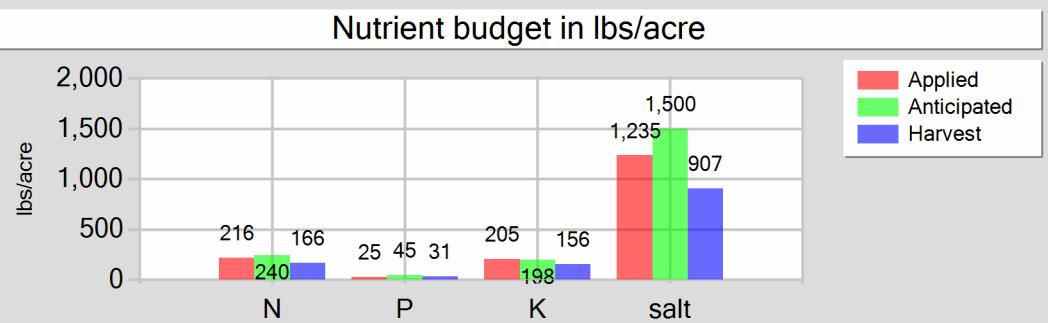
	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	4,650,387.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	171.26 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	17.13 inches/acre
Dry manure	121.03	37.67	100.44	1,642.19	
Process wastewater	121.57	20.54	121.83	804.70	Process wastewater applied
Fresh water	0.00	0.00	0.00	155.23	421,448.00 gallons
Atmospheric deposition	7.00	0.00	0.00	0.00	15.52 acre-inches
Total nutrients applied	249.60	58.21	222.27	2,602.13	1.55 inches/acre
Anticipated crop nutrient removal	198.00	30.60	149.40	1,494.00	
Actual crop nutrient removal	183.48	39.60	221.76	947.76	Total harvests for the crop
Nutrient balance	66.12	18.61	0.51	1,654.37	1 harvests
Applied to removed ratio	1.36	1.47	1.00	2.75	

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

3 - 05/25/2023: Corn, silage

Field name: 3 Crop: Corn, silage Plant date: 05/25/2023



	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	208.67	24.79	204.98	920.58
Fresh water	0.00	0.00	0.00	314.37
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	215.67	24.79	204.98	1,234.95
Anticipated crop nutrient removal	240.00	45.00	198.00	1,500.00
Actual crop nutrient removal	165.72	31.18	155.88	907.36
Nutrient balance	49.94	-6.38	49.11	327.59
Applied to removed ratio	1.30	0.80	1.32	1.36

Fresh water applied

9,417,856.00 gallons
346.83 acre-inches
34.68 inches/acre

Process wastewater applied

1,470,874.00 gallons
54.17 acre-inches
5.42 inches/acre

Total harvests for the crop

1 harvests

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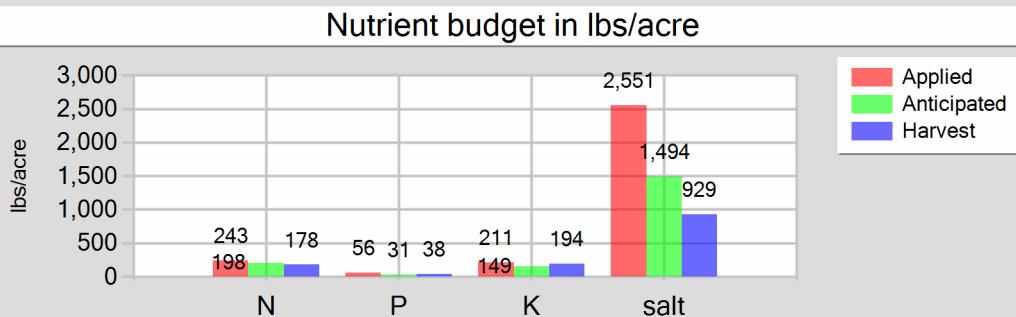
Reporting period 01/01/2023 to 12/31/2023.

4 - 11/25/2022: Wheat, silage, soft dough

Field name: 4

Crop: Wheat, silage, soft dough

Plant date: 11/25/2022



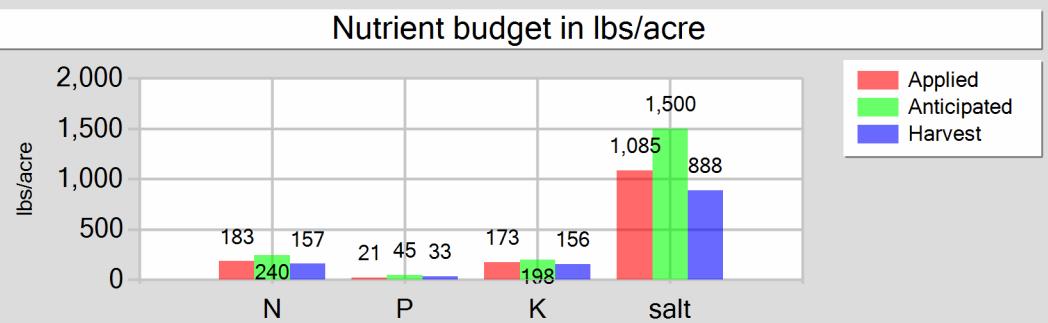
	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	8,878,372.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	326.96 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	17.21 inches/acre
Dry manure	121.03	37.67	100.44	1,642.19	
Process wastewater	114.86	18.67	110.54	752.62	Process wastewater applied
Fresh water	0.00	0.00	0.00	155.98	721,042.00 gallons
Atmospheric deposition	7.00	0.00	0.00	0.00	26.55 acre-inches
Total nutrients applied	242.89	56.34	210.98	2,550.80	1.40 inches/acre
Anticipated crop nutrient removal	198.00	30.60	149.40	1,494.00	
Actual crop nutrient removal	178.20	37.80	194.40	928.79	Total harvests for the crop
Nutrient balance	64.69	18.54	16.58	1,622.01	1 harvests
Applied to removed ratio	1.36	1.49	1.09	2.75	

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

4 - 05/25/2023: Corn, silage

Field name: 4 Crop: Corn, silage Plant date: 05/25/2023



	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	175.60	20.87	172.50	774.72
Fresh water	0.00	0.00	0.00	310.13
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	182.60	20.87	172.50	1,084.84
Anticipated crop nutrient removal	240.00	45.00	198.00	1,500.00
Actual crop nutrient removal	157.28	32.84	155.56	888.40
Nutrient balance	25.32	-11.97	16.95	196.44
Applied to removed ratio	1.16	0.64	1.11	1.22

Fresh water applied
17,652,429.00 gallons
650.08 acre-inches
34.21 inches/acre

Process wastewater applied
2,351,846.00 gallons
86.61 acre-inches
4.56 inches/acre

Total harvests for the crop
1 harvests

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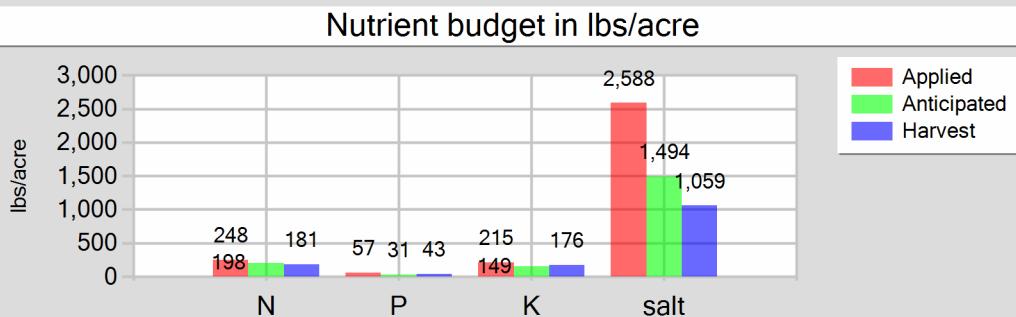
Reporting period 01/01/2023 to 12/31/2023.

5 - 11/25/2022: Wheat, silage, soft dough

Field name: 5

Crop: Wheat, silage, soft dough

Plant date: 11/25/2022



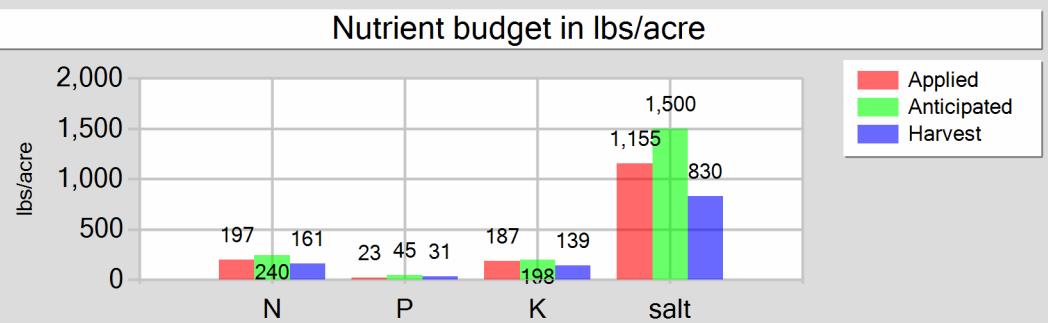
	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	4,857,540.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	178.89 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	17.89 inches/acre
Dry manure	121.03	37.67	100.44	1,642.19	
Process wastewater	119.84	19.33	114.41	783.71	392,177.00 gallons
Fresh water	0.00	0.00	0.00	162.14	14.44 acre-inches
Atmospheric deposition	7.00	0.00	0.00	0.00	1.44 inches/acre
Total nutrients applied	247.87	57.00	214.85	2,588.05	
Anticipated crop nutrient removal	198.00	30.60	149.40	1,494.00	
Actual crop nutrient removal	180.81	42.54	176.25	1,059.02	
Nutrient balance	67.06	14.45	38.60	1,529.03	
Applied to removed ratio	1.37	1.34	1.22	2.44	
Total harvests for the crop					1 harvests

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

5 - 05/25/2023: Corn, silage

Field name: 5 Crop: Corn, silage Plant date: 05/25/2023



	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	190.49	22.63	187.12	840.38
Fresh water	0.00	0.00	0.00	315.09
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	197.49	22.63	187.12	1,155.46
Anticipated crop nutrient removal	240.00	45.00	198.00	1,500.00
Actual crop nutrient removal	160.80	31.18	139.47	830.24
Nutrient balance	36.69	-8.54	47.66	325.22
Applied to removed ratio	1.23	0.73	1.34	1.39

Fresh water applied

9,439,386.00 gallons
347.62 acre-inches
34.76 inches/acre

Process wastewater applied

1,342,721.00 gallons
49.45 acre-inches
4.94 inches/acre

Total harvests for the crop

1 harvests

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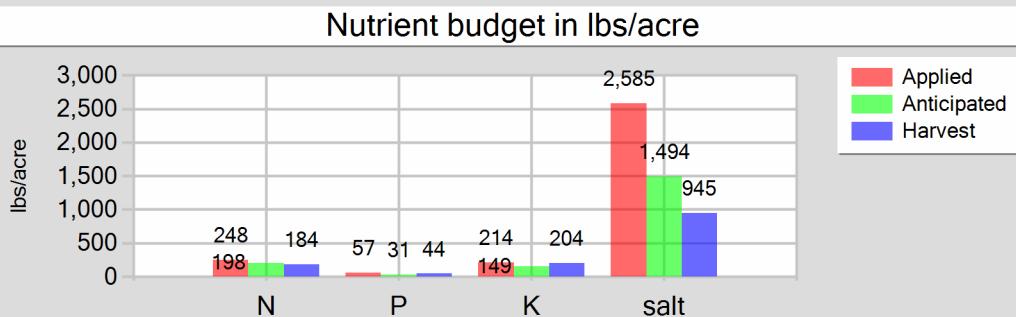
Reporting period 01/01/2023 to 12/31/2023.

6 - 10/26/2022: Wheat, silage, soft dough

Field name: 6

Crop: Wheat, silage, soft dough

Plant date: 10/26/2022



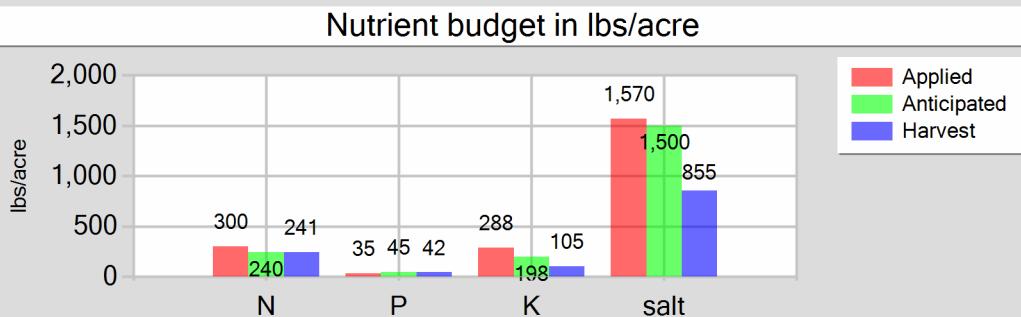
	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	7,283,503.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	268.23 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	17.88 inches/acre
Dry manure	121.03	37.67	100.44	1,642.19	
Process wastewater	119.74	19.12	113.15	781.14	580,590.00 gallons
Fresh water	0.00	0.00	0.00	162.08	21.38 acre-inches
Atmospheric deposition	7.00	0.00	0.00	0.00	1.43 inches/acre
Total nutrients applied	247.78	56.79	213.59	2,585.41	
Anticipated crop nutrient removal	198.00	30.60	149.40	1,494.00	
Actual crop nutrient removal	183.59	44.42	204.31	944.58	
Nutrient balance	64.19	12.37	9.27	1,640.83	
Applied to removed ratio	1.35	1.28	1.05	2.74	
Total harvests for the crop					1 harvests

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

6 - 05/26/2023: Corn, silage

Field name: 6 Crop: Corn, silage Plant date: 05/26/2023



	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	292.81	34.79	287.65	1,291.82
Fresh water	0.00	0.00	0.00	278.08
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	299.81	34.79	287.65	1,569.90
Anticipated crop nutrient removal	240.00	45.00	198.00	1,500.00
Actual crop nutrient removal	241.32	42.23	104.57	854.66
Nutrient balance	58.50	-7.44	183.08	715.25
Applied to removed ratio	1.24	0.82	2.75	1.84

Fresh water applied

12,496,120.00 gallons
460.19 acre-inches
30.68 inches/acre

Process wastewater applied

3,096,041.00 gallons
114.02 acre-inches
7.60 inches/acre

Total harvests for the crop

1 harvests

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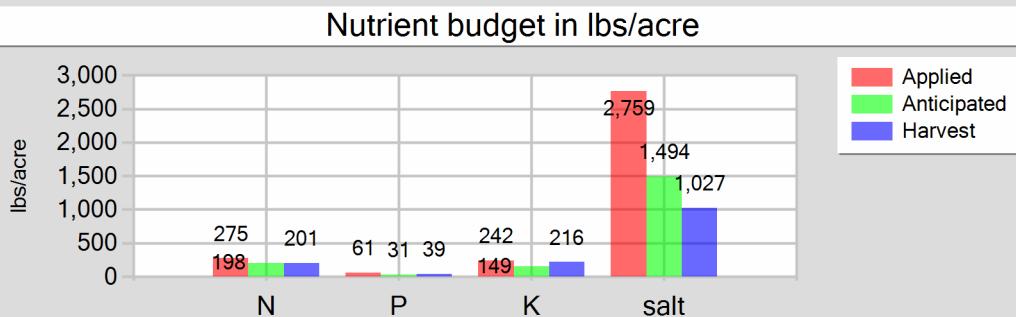
Reporting period 01/01/2023 to 12/31/2023.

7 - 10/26/2022: Wheat, silage, soft dough

Field name: 7

Crop: Wheat, silage, soft dough

Plant date: 10/26/2022



	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	121.03	37.67	100.44	1,642.19
Process wastewater	146.86	23.83	141.11	961.90
Fresh water	0.00	0.00	0.00	155.33
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	274.89	61.50	241.55	2,759.43
Anticipated crop nutrient removal	198.00	30.60	149.40	1,494.00
Actual crop nutrient removal	201.27	39.17	216.13	1,026.61
Nutrient balance	73.62	22.33	25.42	1,732.82
Applied to removed ratio	1.37	1.57	1.12	2.69

Fresh water applied

6,980,215.00 gallons
257.06 acre-inches
17.14 inches/acre

Process wastewater applied

726,413.00 gallons
26.75 acre-inches
1.78 inches/acre

Total harvests for the crop

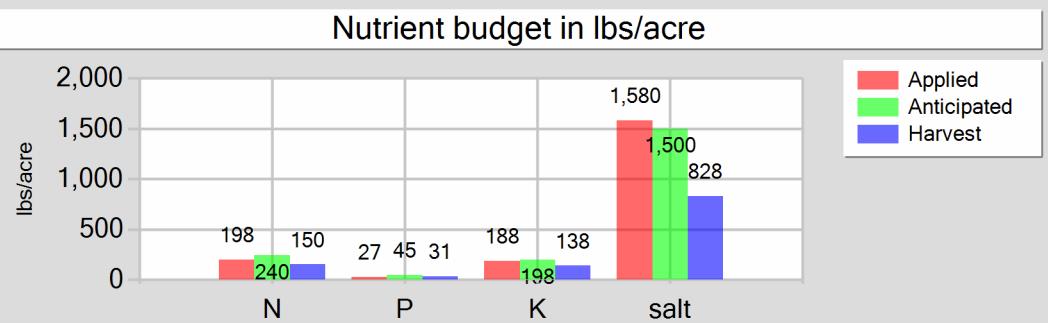
1 harvests

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

7 - 05/28/2023: Corn, silage

Field name: 7 Crop: Corn, silage Plant date: 05/28/2023



	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	191.44	26.84	188.25	975.14
Fresh water	0.00	0.00	0.00	604.71
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	198.44	26.84	188.25	1,579.85
Anticipated crop nutrient removal	240.00	45.00	198.00	1,500.00
Actual crop nutrient removal	150.37	31.11	138.27	827.90
Nutrient balance	48.07	-4.28	49.98	751.95
Applied to removed ratio	1.32	0.86	1.36	1.91

Fresh water applied

14,726,995.00 gallons
542.35 acre-inches
36.16 inches/acre

Process wastewater applied

1,910,745.00 gallons
70.37 acre-inches
4.69 inches/acre

Total harvests for the crop

1 harvests

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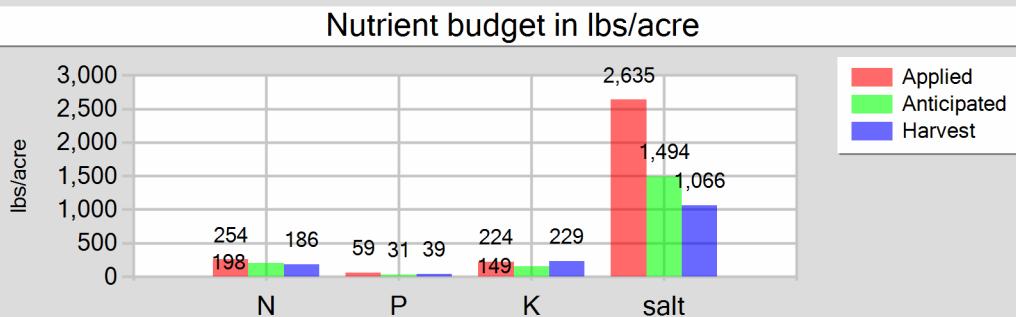
Reporting period 01/01/2023 to 12/31/2023.

8 - 10/27/2022: Wheat, silage, soft dough

Field name: 8

Crop: Wheat, silage, soft dough

Plant date: 10/27/2022



	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	121.03	37.67	100.44	1,642.19
Process wastewater	126.18	20.91	123.92	830.95
Fresh water	0.00	0.00	0.00	161.85
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	254.21	58.58	224.36	2,634.99
Anticipated crop nutrient removal	198.00	30.60	149.40	1,494.00
Actual crop nutrient removal	186.29	38.93	229.38	1,066.28
Nutrient balance	67.92	19.65	-5.02	1,568.71
Applied to removed ratio	1.36	1.50	0.98	2.47

Fresh water applied

17,455,146.00 gallons
642.81 acre-inches
17.86 inches/acre

Process wastewater applied

1,537,514.00 gallons
56.62 acre-inches
1.57 inches/acre

Total harvests for the crop

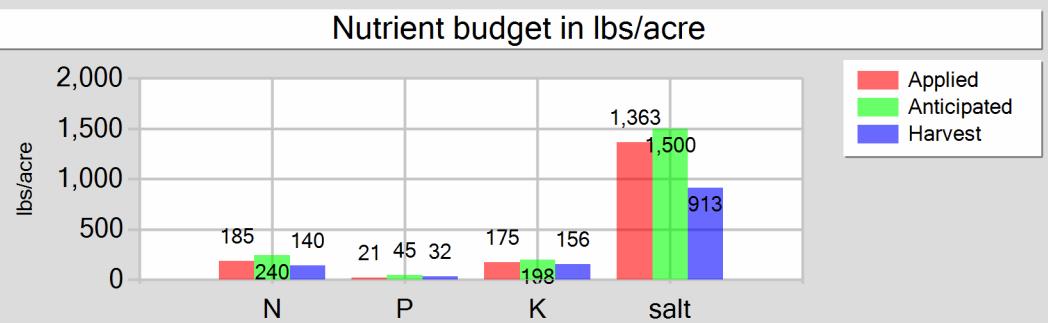
1 harvests

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

8 - 05/28/2023: Corn, silage

Field name: 8 Crop: Corn, silage Plant date: 05/28/2023



	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	178.33	21.19	175.18	786.74
Fresh water	0.00	0.00	0.00	575.88
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	185.33	21.19	175.18	1,362.63
Anticipated crop nutrient removal	240.00	45.00	198.00	1,500.00
Actual crop nutrient removal	140.22	32.49	155.61	913.14
Nutrient balance	45.11	-11.30	19.57	449.49
Applied to removed ratio	1.32	0.65	1.13	1.49

Fresh water applied
33,348,283.00 gallons
1,228.10 acre-inches
34.11 inches/acre

Process wastewater applied
4,525,293.00 gallons
166.65 acre-inches
4.63 inches/acre

Total harvests for the crop
1 harvests

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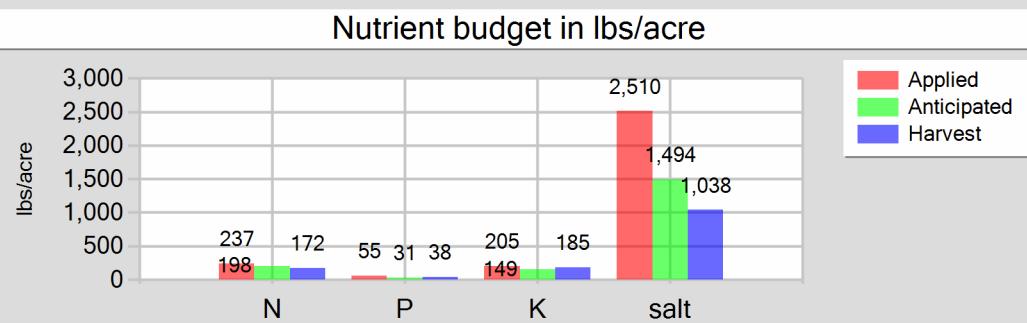
Reporting period 01/01/2023 to 12/31/2023.

9 - 10/28/2022: Wheat, silage, soft dough

Field name: 9

Crop: Wheat, silage, soft dough

Plant date: 10/28/2022



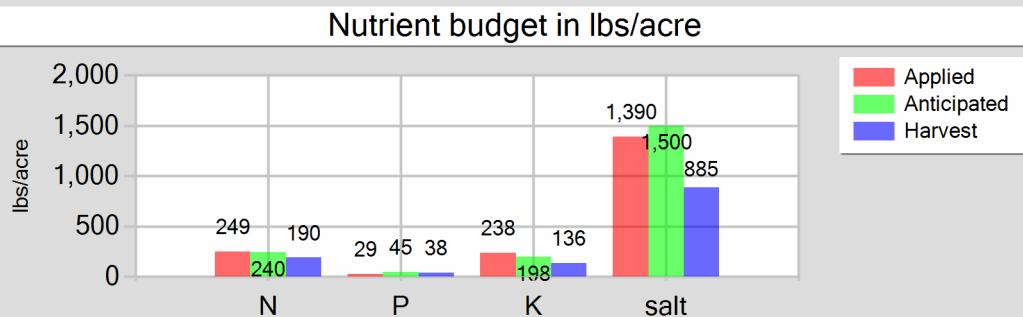
	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	12,383,045.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	456.03 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	16.89 inches/acre
Dry manure	121.03	37.67	100.44	1,642.19	
Process wastewater	109.41	17.59	104.11	714.96	962,918.00 gallons
Fresh water	0.00	0.00	0.00	153.09	35.46 acre-inches
Atmospheric deposition	7.00	0.00	0.00	0.00	1.31 inches/acre
Total nutrients applied	237.44	55.26	204.55	2,510.24	
Anticipated crop nutrient removal	198.00	30.60	149.40	1,494.00	
Actual crop nutrient removal	172.38	37.54	184.90	1,038.48	
Nutrient balance	65.06	17.72	19.65	1,471.76	Total harvests for the crop
Applied to removed ratio	1.38	1.47	1.11	2.42	1 harvests

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

9 - 06/01/2023: Corn, silage

Field name: 9 Crop: Corn, silage Plant date: 06/01/2023



	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	241.95	28.75	237.68	1,067.44
Fresh water	0.00	0.00	0.00	322.75
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	248.95	28.75	237.68	1,390.19
Anticipated crop nutrient removal	240.00	45.00	198.00	1,500.00
Actual crop nutrient removal	189.62	38.27	135.69	885.47
Nutrient balance	59.33	-9.52	101.99	504.71
Applied to removed ratio	1.31	0.75	1.75	1.57

Fresh water applied
26,106,181.00 gallons
961.40 acre-inches
35.61 inches/acre

Process wastewater applied
4,604,876.00 gallons
169.58 acre-inches
6.28 inches/acre

Total harvests for the crop
1 harvests

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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: 10/19/2022 Material type: Corral solids

Source of analysis: Lab analysis

Method of reporting: Dry-weight

Moisture: 16.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	24,100.00	7,500.00	20,000.00							
DL	100.00	200.00	200.00							

Manure

Sample and source description: Manure

Sample date: 05/02/2023 Material type: Corral solids

Source of analysis: Lab analysis

Method of reporting: Dry-weight

Moisture: 8.2 %

	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	18,700.00	6,800.00	27,100.00							
DL	100.00	200.00	200.00							

Manure

Sample and source description: Manure

Sample date: 10/09/2023 Material type: Corral solids

Source of analysis: Lab analysis

Method of reporting: Dry-weight

Moisture: 7.2 %

	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	15,500.00	5,300.00	12,800.00							
DL	100.00	200.00	200.00							

B. PROCESS WASTEWATER ANALYSES

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

Lagoon

Sample and source description: Lagoon

Sample date: 11/15/2022 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	446.00	80.30	0.00	0.00	61.60	362.00								4,230.00	2,810
DL	10.00	2.00	0.10	0.10	0.20	0.50								100.00	10

Lagoon

Sample and source description: Lagoon

Sample date: 02/22/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 6.70

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	298.00	76.10			56.90	339.00								3,080.00	2,040
DL	10.00	2.00			0.20	0.50								100.00	10

Lagoon

Sample and source description: Lagoon

Sample date: 05/19/2023 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	170.00	21.50	0.00	0.00	20.20	167.00								1,130.00	750
DL	10.00	2.00	2.00	2.00	0.20	0.50								100.00	10

Lagoon

Sample and source description: Lagoon

Sample date: 09/15/2023 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	134.00	15.00	0.00	0.00	11.80	70.20								740.00	491
DL	10.00	2.00	0.10	0.10	0.20	0.50								100.00	10

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

Lagoon

Sample and source description: Lagoon

Sample date: 11/15/2023 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	234.00	143.00	0.00	0.00	60.10	370.00								3,260.00	2,160
DL	10.00	2.00	0.10	0.10	0.20	0.50								100.00	10

C. FRESH WATER ANALYSES

DW 10

DW 10

Sample description: DW 10

Sample date: 10/25/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium	Magnesium	Sodium	Bicarbonate	Carbonate	Sulfate	Chloride	EC	TDS
	Value	0.00	0.00									
	DL	0.10	0.10	0.10								

House

House

Sample description: House

Sample date: 10/25/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium	Magnesium	Sodium	Bicarbonate	Carbonate	Sulfate	Chloride	EC	TDS
	Value	0.00	0.00									
	DL	0.20	0.20	0.20								

Laguna I.D.

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

Laguna I.D.

CanalSample description: CanalSample date: 07/18/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	0.00		0.00								23.00	40
DL	0.10		0.10								1.00	20

D. SOIL ANALYSES*No soil analyses entered.***E. PLANT TISSUE ANALYSES**

1 - 11/10/2022: Wheat, silage, soft dough

1

Sample and source description: 1Sample date: 04/11/2023 Source of analysis: Lab analysis Method of reporting: Dry-weightMoisture: 73.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	17,800.00	4,600.00	26,000.00		14.20
DL	500.00	200.00	200.00		0.05

1 - 04/20/2023: Corn, silage

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

1 - 04/20/2023: Corn, silage

1

Sample and source description: 1

Sample date: 08/02/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 61.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	12,300.00	1,900.00	5,400.00		4.87
DL	500.00	200.00	200.00		0.05

10 - 03/01/2021: Alfalfa, hay

10

Sample and source description: 10

Sample date: 11/06/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 9.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	37,900.00	3,100.00	22,700.00		16.60
DL	500.00	200.00	200.00		0.05

11 - 11/26/2022: Wheat, silage, soft dough

11

Sample and source description: 11

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

Moisture: 65.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	11,300.00	2,700.00	11,200.00		7.01
DL	500.00	200.00	200.00		0.05

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

11 - 05/20/2023: Corn, silage

11

Sample and source description: 11

Sample date: 08/02/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 59.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	11,100.00	2,100.00	4,900.00		3.90
DL	500.00	200.00	200.00		0.05

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

2

Sample and source description: 2

Sample date: 05/12/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 66.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	14,200.00	2,700.00	15,000.00		6.86
DL	500.00	200.00	200.00		0.05

2 - 06/05/2023: Corn, silage

2

Sample and source description: 2

Sample date: 09/27/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 71.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	10,200.00	22,000.00	9,100.00		6.61
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 - 11/25/2022: Wheat, silage, soft dough

3

Sample and source description: 3

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

Moisture: 67.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	13,900.00	3,000.00	16,800.00		7.18
DL	500.00	200.00	200.00		0.05

3 - 05/25/2023: Corn, silage

3

Sample and source description: 3

Sample date: 09/01/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 70.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	10,100.00	1,900.00	9,500.00		5.53
DL	500.00	200.00	200.00		0.05

4 - 11/25/2022: Wheat, silage, soft dough

4

Sample and source description: 4

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

Moisture: 67.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	13,200.00	2,800.00	14,400.00		6.88
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.

4 - 05/25/2023: Corn, silage

4

Sample and source description: 4

Sample date: 09/01/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 70.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	9,100.00	1,900.00	9,000.00		5.14
DL	500.00	200.00	200.00		0.05

5 - 11/25/2022: Wheat, silage, soft dough

5

Sample and source description: 5

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

Moisture: 64.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	11,900.00	2,800.00	11,600.00		6.97
DL	500.00	200.00	200.00		0.05

5 - 05/25/2023: Corn, silage

5

Sample and source description: 5

Sample date: 09/01/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 70.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	9,800.00	1,900.00	8,500.00		5.06
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 - 10/26/2022: Wheat, silage, soft dough

6

Sample and source description: 6

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

Moisture: 65.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	12,400.00	3,000.00	13,800.00		6.38
DL	500.00	200.00	200.00		0.05

6 - 05/26/2023: Corn, silage

6

Sample and source description: 6

Sample date: 08/02/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 60.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	12,000.00	2,100.00	5,200.00		4.25
DL	500.00	200.00	200.00		0.05

7 - 10/26/2022: Wheat, silage, soft dough

7

Sample and source description: 7

Sample date: 05/12/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 67.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	14,900.00	2,900.00	16,000.00		7.60
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.

7 - 05/28/2023: Corn, silage

7

Sample and source description: 7

Sample date: 09/01/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 70.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	8,700.00	1,800.00	8,000.00		4.79
DL	500.00	200.00	200.00		0.05

8 - 10/27/2022: Wheat, silage, soft dough

8

Sample and source description: 8

Sample date: 05/12/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 66.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	13,400.00	2,800.00	16,500.00		7.67
DL	500.00	200.00	200.00		0.05

8 - 05/28/2023: Corn, silage

8

Sample and source description: 8

Sample date: 09/01/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 70.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	8,200.00	1,900.00	9,100.00		5.34
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.

9 - 10/28/2022: Wheat, silage, soft dough

9

Sample and source description: 9

Sample date: 05/12/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 66.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	12,400.00	2,700.00	13,300.00		7.47
DL	500.00	200.00	200.00		0.05

9 - 06/01/2023: Corn, silage

9

Sample and source description: 9

Sample date: 09/27/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 69.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	10,900.00	2,200.00	7,800.00		5.09
DL	500.00	200.00	200.00		0.05

F. SUBSURFACE (TILE) DRAINAGE ANALYSES

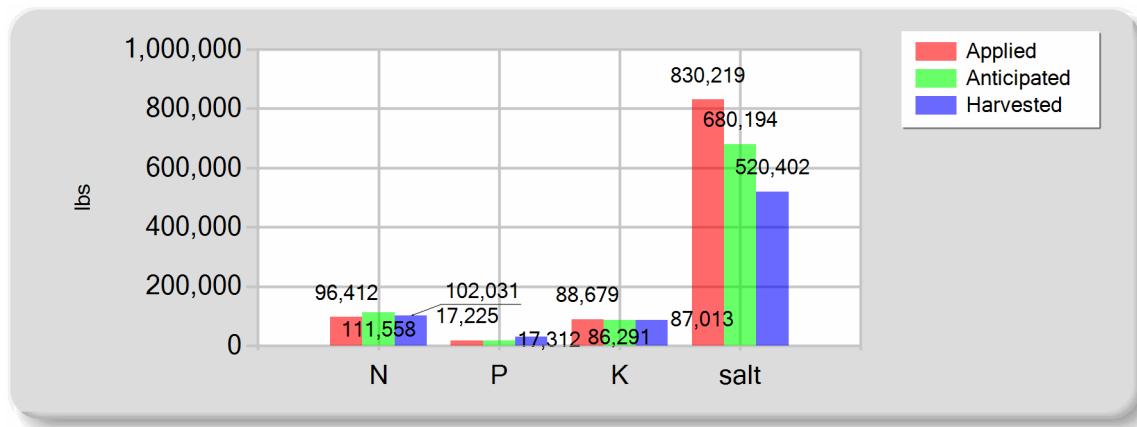
No subsurface (tile) drainage analyses entered.

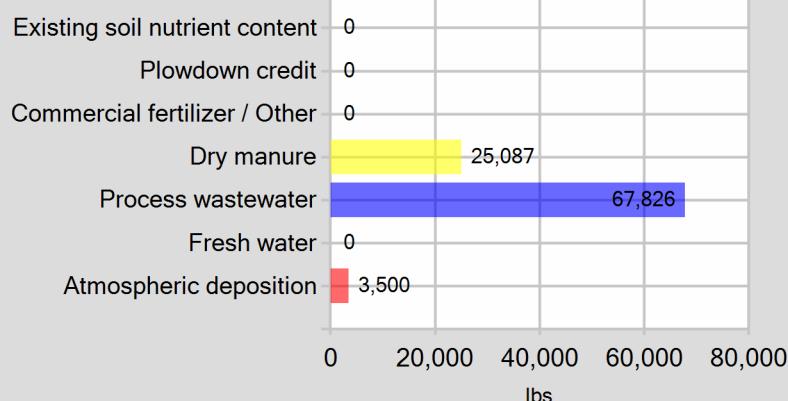
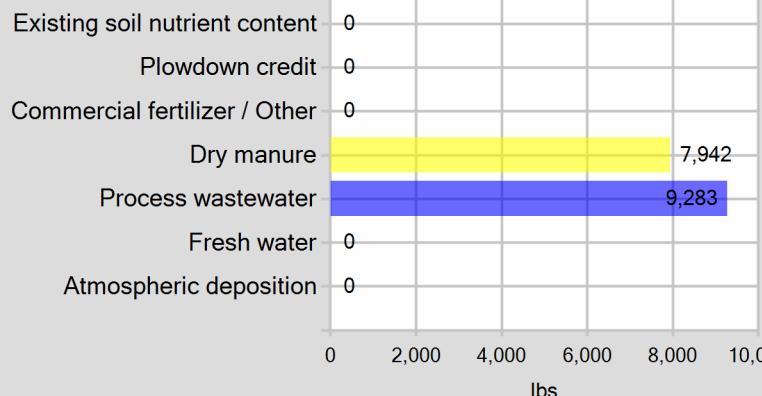
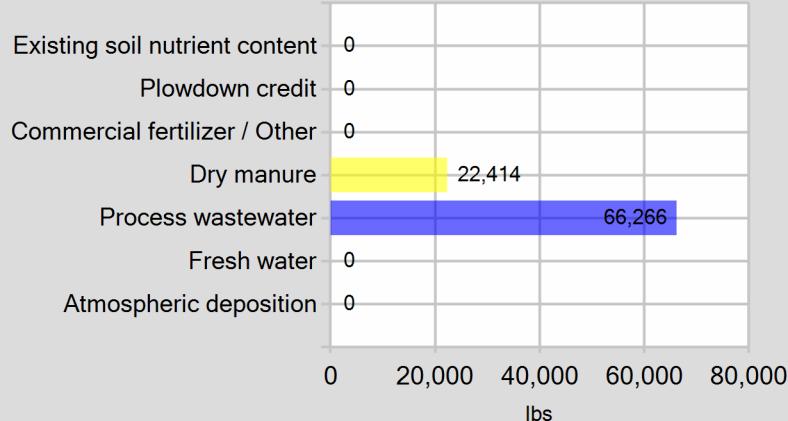
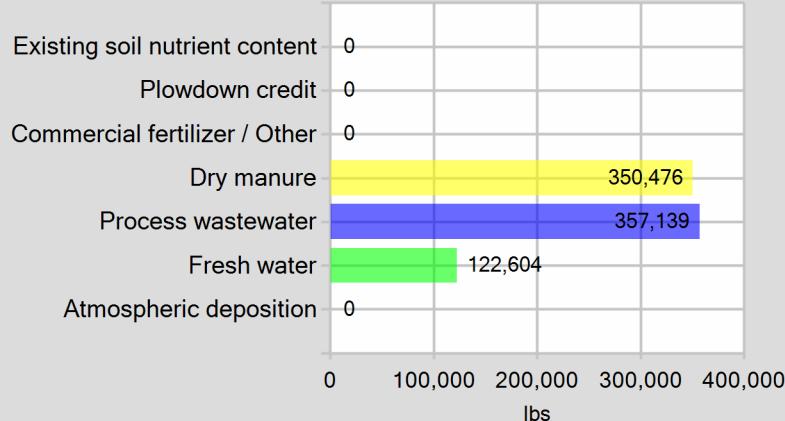
Annual Report - General Order No. R5-2007-0035

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	0.00	0.00	0.00	0.00
Dry manure	25,086.61	7,942.05	22,413.51	350,475.98
Process wastewater	67,825.59	9,282.93	66,265.82	357,139.16
Fresh water	0.00	0.00	0.00	122,603.96
Atmospheric deposition	3,500.00	0.00	0.00	0.00
Total nutrients applied	96,412.19	17,224.98	88,679.33	830,219.10
Anticipated crop nutrient removal	111,558.00	17,312.40	86,291.40	680,194.00
Actual crop nutrient removal	102,031.30	30,050.78	87,013.49	520,401.58
Nutrient balance	-5,619.10	-12,825.80	1,665.84	309,817.52
Applied to removed ratio	0.94	0.57	1.02	1.60

B. POUNDS OF NUTRIENT APPLIED VS. CROP REMOVAL

C. POUNDS OF NUTRIENT APPLIED BY MATERIAL TYPE**Pounds of nitrogen applied****Pounds of phosphorus applied****Pounds of potassium applied****Pounds of salt applied**

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

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

EXCEPTION REPORTING

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

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

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

B. STORM WATER DISCHARGES

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

No stormwater discharges occurred during the reporting period.

C. LAND APPLICATION AREA TO SURFACE WATER DISCHARGES

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

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

NUTRIENT MANAGEMENT PLAN AND EXPORT AGREEMENT STATEMENTS

A. NUTRIENT MANAGEMENT PLAN STATEMENTS

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

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

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

B. EXPORT AGREEMENT STATEMENT

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

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

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

ADDITIONAL NOTES

A. NOTES

~Wells~ Ag 1, Ag 2, Ag 3, Ag 4, Ag 5, Ag 6, and Ag 7 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

Joe Martins

PRINT OR TYPE NAME

6/18/24

DATE

SIGNATURE OF OPERATOR OF FACILITY

SAME AS OWNER

PRINT OR TYPE NAME

DATE

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

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

ATTACHMENTS

A. REQUIRED ATTACHMENTS

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

Annual Dairy Facility Assessment

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

Manure/Process Wastewater Tracking Manifests

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

Corrective Actions Documents

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

Groundwater Monitoring

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

Storm Water Monitoring

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

August 11, 2023

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

Lab No. : VI 2344658
Customer No. : 4019696
Reference : 3061

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
Laguna I.D.	07/18/2023	07/18/2023	VI 2344658-001	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: 2023-08-14

Section: Case Narrative

Page 1 of 3

Page 1 of 3

Corporate Offices & Laboratory	Office & Laboratory	Office & Laboratory	Office & Laboratory	Office & 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	2500 Stagecoach Road Stockton, CA 95215 TEL: (209)942-0182 FAX: (209)942-0423 CA ELAP Certification No. 1563	563 E. Lindo Avenue Chico, CA 95926 TEL: (530)343-5818 FAX: (530)343-3807 CA ELAP Certification No. 2670	3442 Empressa Drive, Suite D San Luis Obispo, CA 93401 TEL: (805)783-2940 FAX: (805)783-2912 CA ELAP Certification No. 2775	9415 W. Goshen Avenue Visalia, CA 93291 TEL: (559)734-9473 FAX: (559)734-8435 CA ELAP Certification No. 2810

August 11, 2023

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

Description : Laguna I.D.
 Project : Laguna I.D.

Lab No. : VI 2344658-001
 Customer No. : 4019696
 Reference : 3061
 Sampled On : July 18, 2023 at 11:10
 Sampled By : Jeremy
 Received On : July 18, 2023 at 15:17
 Matrix : Ag Water

Sample Results - Inorganic

Constituent	Result	RL	Units	Note	Dil.	DQF	Sample Preparation			Sample Analysis			
							Date	Time	Who	Method	Date	Time	Who
Dairy Analysis													
Nitrogen, Total Kjeldahl	ND	0.5	mg/L		1	U	08/08/2023	08:55	sta	EPA 351.2	08/10/2023	17:16	lcr
Nitrate Nitrogen	ND	0.4	mg/L		1	U	07/19/2023	12:15	lfs	SM 4500-NO3 F	07/19/2023	15:01	lfs
Nitrogen, Total as Nitrogen	ND	0.5	mg/L		1	U	08/08/2023	08:55	sta	Calc.	08/10/2023	17:16	lcr
Nitrate + Nitrite as N	ND	0.4	mg/L		1	U	07/19/2023	12:15	lfs	SM 4500-NO3 F	07/19/2023	15:01	lfs
Kjeldahl Nitrogen	ND	0.5	mg/L		1	U	08/08/2023	08:55	sta	EPA 351.2	08/10/2023	17:16	lcr
Conductivity	23	1	umhos/cm		1		07/31/2023	14:51	amm	SM 4500-H+B	07/31/2023	18:57	amm
Solids, Total Dissolved (TDS)	40	20	mg/L		1		07/20/2023	16:15	ctl	SM 2540 C	07/21/2023	11:10	ctl

DQF Flags Definition:

U Constituent results were non-detect.

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

August 11, 2023

Sentry Ag Service

Lab No. : VI 2344658
Customer No. : 4019696

Quality Control - Wet Chem

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Wet Chem								
E. C.	2320B	(VI 2344636-006)	Dup	umhos/cm		0%	5	
Solids, Total Dissolved	2540CE	07/20/2023:207946CTL (STK2339578-001) (STK2339578-001)	Blank LCS Dup Dup	mg/L mg/L mg/L mg/L	993.7	ND 102% 0.4% 1.98%	<20 90-110 5 5	
Nitrogen, Total Kjeldahl	351.2	08/08/2023:208707STA (VI 2344654-002) (VI 2344644-003)	Blank LCS MS MSDP MS MSDP MSRPD	mg/L mg/L mg/L mg/L mg/L mg/L mg/L	12.00 12.00 12.00 12.00 12.00 12.00 12.00	ND 91.3% 85.5% 85.3% 0.3% 82.8% 82.5% 0.3%	<0.5 73-124 54-136 54-136 ≤27 54-136 54-136 ≤27	
Nitrate + Nitrite as N	4500NO3F	07/19/2023:207926LFS (STK2339515-001)	Blank LCS MS MSD MSRPD	mg/L mg/L mg/L mg/L mg/L	11.22 5.609 5.609 5.609 5.609	ND 97.8% 91.9% 94.5% 1.2%	<0.4 80-120 66-125 66-125 ≤30.4	
Nitrate Nitrogen	4500NO3F	07/19/2023:207926LFS (STK2339515-001)	Blank LCS MS MSD MSRPD	mg/L mg/L mg/L mg/L mg/L	11.22 5.609 5.609 5.609 5.609	ND 97.8% 91.9% 94.5% 1.2%	<0.4 80-120 66-125 66-125 ≤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.



2344658
Laboratory Analysis Work Order

3061

SITE NAME: Laguna T.D.

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

LABORATORY: FT | FGL 4-19696

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	Laguna T.D.	Canal 1	W2	7/18/23 11:10	Genomy	—	
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							

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

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

NOTES:

CHAIN OF CUSTODY RECORDING

	Signature	Company	Received Date & Time	Relinquished Date & Time
1 st	<u>S. Diller</u>	SAS		7/18/23 3:17 pm
2 nd	SRO	FGL	7/18/23 1517	
3 rd	SRO	FGL		7/18/23 1730
4 th		GLS	7/18/23 1730	

LABORATORY USE ONLY

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

R01
5.3°C

GLS 7/19/23
MC 1100

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: 201 / 5.3°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.

- | | | | |
|---|--------------------------------------|----|-----|
| 3. Do the number of bottles received agree with the COC? | <input checked="" type="radio"/> Yes | No | N/A |
| 4. Were samples received intact? (i.e. no broken bottles, leaks etc.) | <input checked="" type="radio"/> 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? | <input checked="" type="radio"/> Yes | No | |
| 9. Verify sample date, time and sampler name | <input checked="" type="radio"/> 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): SRO

Sample Receipt at SP:

1. Were samples received in a chilled condition? Temps: 3°C / _____ / _____ / _____ / _____

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: 559787246
6815

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

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

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

Discrepancy Documentation:

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

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

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

(Please use the back of this sheet for additional contacts)

(4019696)
Sentry Ag Service
VI 2344658
iv 07/19/2023 08:11:21

UJ 2344658

November 13, 2023

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

Lab No. : VI 2347234
Customer No. : 4019696
Reference : 3321

Laboratory Report

Introduction: This report package contains a total of 4 pages divided into 3 sections:

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

Case Narrative

This Case Narrative pertains to the following samples:

Sample Description	Date Sampled	Date Received	FGL Lab No.	Matrix
House	10/25/2023	10/25/2023	VI 2347234-001	DW
DW10	10/25/2023	10/25/2023	VI 2347234-002	DW

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

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: 2023-11-14

Section: Case Narrative

Page 1 of 4

Page 1 of 4

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 Empressa 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
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November 13, 2023

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

Description : House
 Project : J & F Martins #2

Lab No. : VI 2347234-001
 Customer No. : 4019696
 Reference : 3321
 Sampled On : October 25, 2023 at 10:45
 Sampled By : Jeremy
 Received On : October 25, 2023 at 15:22
 Matrix : Drinking Water

Sample Results - Inorganic

Constituent	Result	RL	Units	MCL/AL	Dil.	DQF	Sample Preparation			Sample Analysis			
							Date	Time	Who	Method	Date	Time	Who
Dairy Analysis													
Nitrate Nitrogen	ND	0.4	mg/L	10	1	U	10/26/2023	13:15	lfs	SM 4500-NO3 F	10/26/2023	15:26	lfs
Conductivity	364	1	umhos/cm	1600 ²	1		11/03/2023	07:56	krh	SM 4500-H+B	11/03/2023	11:22	krh

DQF Flags Definition:

U Constituent results were non-detect.

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

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

November 13, 2023

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

Description : DW10
 Project : J & F Martins #2

Lab No. : VI 2347234-002
 Customer No. : 4019696
 Reference : 3321
 Sampled On : October 25, 2023 at 10:30
 Sampled By : Jeremy
 Received On : October 25, 2023 at 15:22
 Matrix : Drinking Water

Sample Results - Inorganic

Constituent	Result	RL	Units	MCL/AL	Dil.	DQF	Sample Preparation			Sample Analysis			
							Date	Time	Who	Method	Date	Time	Who
Dairy Analysis													
Nitrate Nitrogen	ND	0.4	mg/L	10	1	U	10/26/2023	13:15	lfs	SM 4500-NO3 F	10/26/2023	15:29	lfs
Conductivity	281	1	umhos/cm	1600 ²	1		11/02/2023	09:02	krh	SM 4500-H+B	11/02/2023	13:09	krh

DQF Flags Definition:

U Constituent results were non-detect.

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

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

November 13, 2023
Sentry Ag Service

Lab No. : VI 2347234
 Customer No. : 4019696

Quality Control - Wet Chem

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Wet Chem								
E. C.	2320B	(CH 2378562-001)	Dup	umhos/cm		0.3%	5	
	2320B	(VI 2347233-001)	Dup	umhos/cm		0.2%	5	
Nitrate Nitrogen	4500NO3F	10/26/2023:212150LFS	Blank	mg/L		ND	<0.4	
			LCS	mg/L	11.22	94.7%	80-120	
			MS	mg/L	5.609	95.1%	66-125	
		(CH 2379222-001)	MSD	mg/L	5.609	96.8%	66-125	
			MSRPD	mg/L		1.5%	≤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

3321

SITE NAME: J+F Martins #2Billing: Sentry Ag Services, LLC
P.O. Box 7750, Visalia, CA 932902347234
LABORATORY: FGL FGL 4-19696Authorized 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	House	Dw	W1	10/25/23 10:45	Jeremy	O	
2	Dw10	Dw	W1	10/25/23 10:30	"	O	
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: R01 7.9°CID#77407

CHAIN OF CUSTODY RECORDING

	Signature	Company	Received Date & Time	Relinquished Date & Time
1 st	<u>AV DPA</u>	SAS		10/25/23 15:22
2 nd	<u>SRC</u>	FGL	10-25-23 1522	
3 rd	<u>SRC</u>	FGL		10-25-23 1730
4 th		GLS	10-25-23 1730	

LABORATORY USE ONLY

Logged In By: _____

Total Samples: _____

Laboratory No.: (1) 10/25/23WJF

Inter-Laboratory Condition Upon Receipt (Attach to COC)

Sample Receipt at: CC CH STK VI

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

2. Temp IR Gun ID #: 111401

3. Were samples received on ice? Yes No Temps: 7.9°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): SRC

Sample Receipt at SP:

1. Number of ice chests/packages received: 3 Shipping tracking #(s): 560359082, 560360071
560359945

2. Temp IR Gun ID #: 2114

3. Were samples received on ice? Yes No Temps: 3 / 3 / 3 / 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 2347234

iv 10/26/2023 09:23:13



111 2347234