

**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:** Maddox Dairy Ltd.

Physical address of dairy:

12840 W Kamm AVE

Number and Street

Riverdale

City

Fresno

County

93656

Zip Code

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

Date facility was originally placed in operation: 02/01/1982Regional Water Quality Control Board Basin Plan designation: Tulare Basin

County Assessor Parcel Number(s) for dairy facility:

0041-0060-0037-0000**B. OPERATORS**

Maddox, Stephen D

Operator name: Maddox, Stephen DTelephone no.: (559) 866-5308(559) 977-1889

Landline

Cellular

12877 Kamm AVE

Mailing Address Number and Street

Riverdale

City

CA

State

93656

Zip Code

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

Maddox, Stephen D

Legal owner name: Maddox, Stephen DTelephone no.: (559) 866-5308(559) 977-1889

Landline

Cellular

12877 Kamm AVE

Mailing Address Number and Street

Riverdale

City

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Zip Code

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

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## AVAILABLE NUTRIENTS

### A. HERD INFORMATION

	Milk Cows	Dry Cows	Bred Heifers (15-24 mo.)	Heifers (7-14 mo. to breeding)	Calves (4-6 mo.)	Calves (0-3 mo.)
Number open confinement	0	400	1,300	1,500	900	900
Number under roof	3,350	0	0	0	0	0
Maximum number	3,350	400	1,300	1,500	900	900
Average number	3,350	400	1,300	1,500	900	900
Avg live weight (lbs)	1,200	1,300	1,000	800		

Predominant milk cow breed: Holstein

Average milk production: 70 pounds per cow per day

### B. MANURE GENERATED

Total manure excreted by the herd: 126,061.79 tons per reporting period

Total nitrogen from manure: 1,554,223.33 lbs per reporting period

After ammonia losses (30% loss applied): 1,087,956.33 lbs per reporting period

Total phosphorus from manure: 251,314.04 lbs per reporting period

Total potassium from manure: 641,555.91 lbs per reporting period

Total salt from manure: 1,669,327.50 lbs per reporting period

### C. PROCESS WASTEWATER GENERATED

Process wastewater generated: 63,281,000 gallons

Total nitrogen generated: 193,236.24 lbs

Total phosphorus generated: 24,450.36 lbs

Total potassium generated: 136,706.42 lbs

Total salt generated: 981,064.57 lbs

63,281,000 gallons applied
+ 0 gallons exported
- 0 gallons imported
= 63,281,000 gallons generated

### D. FRESH WATER SOURCES

Source Description	Type
Canal	Surface water
D1 & D2	Ground water

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Date	Material type	Quantity	Reporting basis	Moisture (%)	Density (lbs/cu ft)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/29/2023	Corral solids	15,360.00 <i>ton</i>	As-is	29.0		14,100.00	5,500.00	18,800.00		57.70

*No liquid nutrient exports entered.*

Material type	Total N (lbs)	Total P (lbs)	Total K (lbs)	Total salt (lbs)
Dry manure	433,152.00	168,960.00	577,536.00	12,585,062.40
Process wastewater	0.00	0.00	0.00	0.00
Total exports for all materials	433,152.00	168,960.00	577,536.00	12,585,062.40

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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
12-41	50	50	0	none	X040-X050-X064-XXXX
12-7	59	59	0	none	X040-X050-X057-XXXX
12-8	70	70	0	none	X040-X050-X064-XXXX
12-9	90	90	0	none	X040-X050-X064-XXXX
13-14	140	140	0	none	X040-X090-X005-XXXX
13-15	90	90	2	process wastewater	X040-X090-X005-XXXX X041-X060-X017-XXXX
16-1	80	80	0	none	X041-X060-X065-XXXX
16-2	80	80	0	none	X041-X060-X065-XXXX
16-3	80	80	0	none	X041-X060-X065-XXXX
16-4	150	150	0	none	X041-X060-X065-XXXX
16-5	80	80	0	none	X041-X060-X065-XXXX
16-7	70	70	2	process wastewater	X041-X060-X039-XXXX
17-1	70	70	0	none	X041-X060-X060-XXXX
17-2	60	60	2	process wastewater	X041-X060-X064-XXXX
17-3	80	80	0	none	X041-X060-X060-XXXX
17-4	80	80	0	none	X041-X060-X064-XXXX
17-5	80	80	0	none	X041-X060-X060-XXXX
17-6	80	80	0	none	X041-X060-X064-XXXX
17-7	80	80	0	none	X041-X060-X060-XXXX
17-8	80	80	0	none	X041-X060-X060-XXXX
18-1	80	80	0	none	X041-X060-X023-XXXX
18-18	85	85	0	none	X041-X060-X017-XXXX
18-2	80	80	0	none	X041-X060-X057-XXXX
18-3	80	80	0	none	X041-X060-X023-XXXX
18-4	80	80	0	none	X041-X060-X057-XXXX
18-5	80	80	0	none	X041-X060-X023-XXXX
18-7	80	80	0	none	X041-X060-X023-XXXX
19-1	80	80	0	none	X041-X060-X055-XXXX
19-2	80	80	0	none	X041-X060-X055-XXXX
19-3	80	80	0	none	X041-X060-X055-XXXX
19-4	80	80	0	none	X041-X060-X055-XXXX
19-5	55	55	2	process wastewater	X041-X060-X019-XXXX
19-6	55	55	2	process wastewater	X041-X060-X019-XXXX

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Field name	Controlled acres	Cropable acres	Total harvests	Type of waste applied	Parcel number
19-7	60	60	0	none	X041-X060-X019-XXXX
20-1	80	80	2	process wastewater	X041-X060-X048-XXXX X041-X060-X059-XXXX
20-2	80	80	0	none	X041-X060-X043-XXXX
20-3	40	40	0	none	X041-X060-X059-XXXX X041-X060-X062-XXXX
20-4	80	80	0	none	X041-X060-X059-XXXX
20-5	80	80	0	none	X041-X060-X062-XXXX
20-6	80	80	0	none	X041-X060-X059-XXXX
20-7	80	80	0	none	X041-X060-X062-XXXX
20-8	80	80	0	none	X041-X060-X059-XXXX
21-1	80	80	0	none	X041-X060-X070-XXXX
21-2	80	80	0	none	X041-X060-X070-XXXX
21-3	80	80	0	none	X041-X060-X070-XXXX
21-4	80	80	0	none	X041-X060-X070-XXXX
21-5N	25	25	2	process wastewater	X041-X060-X050-XXXX
21-5S	55	55	0	none	X041-X060-X067-XXXX
21-6	80	80	0	none	X041-X060-X069-XXXX
21-7	30	30	2	process wastewater	X041-X060-X063-XXXX X041-X060-X067-XXXX
21-8	70	70	0	none	X041-X060-X069-XXXX
22-1	80	80	0	none	X041-X070-X018-XXXX X041-X070-X019-XXXX
22-2	80	80	0	none	X041-X070-X018-XXXX X041-X070-X019-XXXX
22-3	80	80	0	none	X041-X070-X018-XXXX X041-X070-X019-XXXX
22-4	80	80	0	none	X041-X070-X018-XXXX X041-X070-X019-XXXX
22-5	80	80	0	none	X041-X070-X018-XXXX X041-X070-X019-XXXX
22-6	80	80	0	none	X041-X070-X018-XXXX X041-X070-X019-XXXX
22-7	80	80	0	none	X041-X070-X018-XXXX X041-X070-X019-XXXX
22-8	80	80	0	none	X041-X070-X018-XXXX X041-X070-X019-XXXX

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Field name	Controlled acres	Cropable acres	Total harvests	Type of waste applied	Parcel number
29-1	70	70	0	none	X041-X100-X031-XXXX X041-X100-X043-XXXX
29-3	40	40	0	none	X041-X100-X042-XXXX
29-30	170	170	0	none	X041-X060-X019-XXXX
29-5	40	40	0	none	X041-X100-X042-XXXX
29-7	40	40	0	none	X041-X100-X042-XXXX
30-31	60	60	0	none	X041-X100-X040-XXXX X053-X170-X034-XXXX
Totals for areas that were used for application	465	465	16		
Totals for areas that were not used for application	4,479	4,479	0		
Land application area totals	4,944	4,944	16		

**B. CROPS AND HARVESTS**

13-15

Field name: 13-15

11/01/2022: Wheat, silage, boot stage

Crop: Wheat, silage, boot stage Acres planted: 90 Plant date: 11/01/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/23/2023	1,211.90 ton	Dry-weight		59.9	21,400.00	3,700.00	21,400.00		10.11

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	256.00	44.80	192.00	0.00
Total actual harvest content	13.47	231.11	39.96	231.11	1,091.82

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13-15

06/01/2023: Corn, silage

Crop: Corn, silage Acres planted: 90 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 (%)
10/05/2023	1,807.00 ton	Dry-weight		64.5	10,600.00	4,200.00	16,400.00		7.39

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	28.00	224.00	42.00	184.80	0.00
Total actual harvest content	20.08	151.11	59.87	233.79	1,053.46

16-7

Field name: 16-7

11/01/2022: Wheat, silage, boot stage

Crop: Wheat, silage, boot stage Acres planted: 70 Plant date: 11/01/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/15/2023	1,043.50 ton	Dry-weight		65.5	13,200.00	4,000.00	25,500.00		11.12

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	256.00	44.80	192.00	0.00
Total actual harvest content	14.91	135.77	41.14	262.29	1,143.80

06/01/2023: Corn, silage

Crop: Corn, silage Acres planted: 70 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 (%)
10/05/2023	2,103.50 ton	Dry-weight		63.3	14,200.00	4,200.00	19,300.00		6.74

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	28.00	224.00	42.00	184.80	0.00
Total actual harvest content	30.05	313.21	92.64	425.69	1,486.62

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17-2

Field name: 17-2

11/01/2022: Wheat, silage, boot stage

Crop: Wheat, silage, boot stage Acres planted: 60 Plant date: 11/01/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/15/2023	791.80 ton	Dry-weight		66.5	16,600.00	3,400.00	24,900.00		7.29

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	256.00	44.80	192.00	0.00
Total actual harvest content	13.20	146.77	30.06	220.16	644.56

06/01/2023: Corn, silage

Crop: Corn, silage Acres planted: 60 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 (%)
09/11/2023	1,116.70 ton	Dry-weight		66.2	16,700.00	3,400.00	15,900.00		5.40

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	28.00	224.00	42.00	184.80	0.00
Total actual harvest content	18.61	210.11	42.78	200.05	679.40

19-5

Field name: 19-5

11/01/2022: Wheat, silage, boot stage

Crop: Wheat, silage, boot stage Acres planted: 55 Plant date: 11/01/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/23/2023	1,013.30 ton	Dry-weight		75.9	26,800.00	4,900.00	31,500.00		11.67

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	256.00	44.80	192.00	0.00
Total actual harvest content	18.42	237.99	43.51	279.73	1,036.32



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19-5

06/01/2023: Corn, silage

Crop: Corn, silage Acres planted: 55 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 (%)
10/05/2023	1,283.00 ton	Dry-weight		65.6	15,000.00	3,500.00	21,800.00		7.25

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	28.00	224.00	42.00	184.80	0.00
Total actual harvest content	23.33	240.74	56.17	349.87	1,163.56

19-6

Field name: 19-6

11/01/2022: Wheat, silage, boot stage

Crop: Wheat, silage, boot stage Acres planted: 55 Plant date: 11/01/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/23/2023	959.20 ton	Dry-weight		62.8	18,700.00	2,600.00	17,700.00		8.33

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	256.00	44.80	192.00	0.00
Total actual harvest content	17.44	242.64	33.74	229.66	1,080.85

06/01/2023: Corn, silage

Crop: Corn, silage Acres planted: 55 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 (%)
10/05/2023	1,312.70 ton	Dry-weight		62.6	13,000.00	3,100.00	14,500.00		7.14

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	28.00	224.00	42.00	184.80	0.00
Total actual harvest content	23.87	232.09	55.34	258.86	1,274.68

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20-1

Field name: 20-1

11/01/2022: Wheat, silage, boot stage

Crop: Wheat, silage, boot stage Acres planted: 80 Plant date: 11/01/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/15/2023	1,339.80 <i>ton</i>	Dry-weight		70.0	29,900.00	4,700.00	32,700.00		9.75

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	256.00	44.80	192.00	0.00
Total actual harvest content	16.75	300.45	47.23	328.59	979.73

06/01/2023: Corn, silage

Crop: Corn, silage Acres planted: 80 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 (%)
09/11/2023	1,871.40 <i>ton</i>	Dry-weight		65.1	20,600.00	4,000.00	18,200.00		5.38

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	28.00	224.00	42.00	184.80	0.00
Total actual harvest content	23.39	336.36	65.31	297.17	878.44

21-5N

Field name: 21-5N

11/01/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 25 Plant date: 11/01/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/15/2023	445.20 <i>ton</i>	Dry-weight		65.8	17,600.00	3,200.00	18,900.00		11.65

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	256.00	44.80	192.00	0.00
Total actual harvest content	17.81	214.38	38.98	230.21	1,419.05

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21-5N

06/01/2023: Corn, silage

Crop: Corn, silage Acres planted: 25 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 (%)
09/11/2023	526.90 ton	Dry-weight		66.5	16,300.00	3,500.00	17,800.00		6.55

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	28.00	224.00	42.00	184.80	0.00
Total actual harvest content	21.08	230.17	49.42	251.35	924.92

21-7

Field name: 21-7

11/01/2022: Wheat, silage, boot stage

Crop: Wheat, silage, boot stage Acres planted: 30 Plant date: 11/01/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/15/2023	687.80 ton	Dry-weight		61.5	14,400.00	3,200.00	19,700.00		9.55

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	256.00	44.80	192.00	0.00
Total actual harvest content	22.93	254.21	56.49	347.77	1,685.91

06/01/2023: Corn, silage

Crop: Corn, silage Acres planted: 30 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 (%)
10/05/2023	748.00 ton	Dry-weight		67.5	13,000.00	2,800.00	16,800.00		5.93

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	28.00	224.00	42.00	184.80	0.00
Total actual harvest content	24.93	210.69	45.38	272.27	961.06

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**NUTRIENT BUDGET**

**A. LAND APPLICATIONS**

13-15 - 11/01/2022: Wheat, silage, boot stage

Field name: 13-15

Crop: Wheat, silage, boot stage

Plant date: 11/01/2022

Application date	Application method	Precipitation 24 hours prior		Precipitation during application			Precipitation 24 hours following	
02/01/2023	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	
WW		Process wastewater	294.90	35.61	217.03	1,200.44	9,368,000.00 <i>gal</i>	
Application event totals			294.90	35.61	217.03	1,200.44		
03/15/2023	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	
Canal		Surface water	0.00	0.00	0.00	17.61	10,552,000.00 <i>gal</i>	
Application event totals			0.00	0.00	0.00	17.61		
04/08/2023	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	
Canal		Surface water	0.00	0.00	0.00	17.61	10,552,000.00 <i>gal</i>	
Application event totals			0.00	0.00	0.00	17.61		

13-15 - 06/01/2023: Corn, silage

Field name: 13-15

Crop: Corn, silage

Plant date: 06/01/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
06/03/2023	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
Canal	Surface water	0.00	0.00	0.00	17.57	10,530,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	17.57	

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13-15 - 06/01/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
06/26/2023	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
Canal	Surface water	0.00	0.00	0.00	17.57	10,530,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	17.57	
07/09/2023	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
WW	Process wastewater	91.51	11.21	70.03	512.05	2,600,000.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	19.23	11,520,000.00 <i>gal</i>
Application event totals		91.51	11.21	70.03	531.28	
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
Canal	Surface water	0.00	0.00	0.00	16.34	9,792,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	16.34	
08/02/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	92.50	12.54	58.35	520.97	2,600,000.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	16.34	9,792,000.00 <i>gal</i>
Application event totals		92.50	12.54	58.35	537.31	
08/10/2023	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
Canal	Surface water	0.00	0.00	0.00	16.34	9,792,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	16.34	
08/19/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	19.23	11,520,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	19.23	

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**13-15 - 06/01/2023: Corn, silage**

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/29/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	17.57	10,530,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	17.57	

**16-7 - 11/01/2022: Wheat, silage, boot stage**

Field name: 16-7

Crop: Wheat, silage, boot stage Plant date: 11/01/2022

Application date	Application method	Precipitation 24 hours prior		Precipitation during application			Precipitation 24 hours following	
02/07/2023	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	
Canal		Surface water	0.00	0.00	0.00	18.54	8,640,000.00 <i>gal</i>	
Application event totals			0.00	0.00	0.00	18.54		
03/15/2023	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	
Canal		Surface water	0.00	0.00	0.00	18.54	8,640,000.00 <i>gal</i>	
Application event totals			0.00	0.00	0.00	18.54		

**16-7 - 06/01/2023: Corn, silage**

Field name: 16-7

Crop: Corn, silage Plant date: 06/01/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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**16-7 - 06/01/2023: 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
Canal		Surface water	0.00	0.00	0.00	18.54	8,640,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	18.54	
05/24/2023	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
Canal		Surface water	0.00	0.00	0.00	18.54	8,640,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	18.54	
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
Canal		Surface water	0.00	0.00	0.00	18.54	8,640,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	18.54	
06/29/2023	Surface (irrigation)	No precipitation	No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal		Surface water	0.00	0.00	0.00	18.54	8,640,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	18.54	
07/15/2023	Surface (irrigation)	No precipitation	No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal		Surface water	0.00	0.00	0.00	18.54	8,640,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	18.54	
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
Canal		Surface water	0.00	0.00	0.00	18.54	8,640,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	18.54	

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## 16-7 - 06/01/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
08/08/2023	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
WW	Process wastewater	375.09	50.86	236.60	2,112.50	8,200,000.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	18.54	8,640,000.00 <i>gal</i>
Application event totals		375.09	50.86	236.60	2,131.04	
08/19/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	18.54	8,640,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	18.54	

## 17-2 - 11/01/2022: Wheat, silage, boot stage

Field name: 17-2

Crop: Wheat, silage, boot stage

Plant date: 11/01/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
02/22/2023	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
WW	Process wastewater	58.55	7.07	43.09	238.34	1,240,000.00 <i>gal</i>
Application event totals		58.55	7.07	43.09	238.34	
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
WW	Process wastewater	58.55	7.07	43.09	238.34	1,240,000.00 <i>gal</i>
Application event totals		58.55	7.07	43.09	238.34	
03/20/2023	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
WW	Process wastewater	58.55	7.07	43.09	238.34	1,240,000.00 <i>gal</i>
Application event totals		58.55	7.07	43.09	238.34	



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17-2 - 06/01/2023: Corn, silage

Field name: 17-2

Crop: Corn, silage

Plant date: 06/01/2023

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
Canal		Surface water	0.00	0.00	0.00	19.13	7,640,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	19.13	
06/06/2023	Surface (irrigation)	No precipitation		No precipitation		No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal		Surface water	0.00	0.00	0.00	19.13	7,640,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	19.13	
06/19/2023	Surface (irrigation)	No precipitation		No precipitation		No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW		Process wastewater	131.99	16.17	101.01	738.53	2,500,000.00 <i>gal</i>
Canal		Surface water	0.00	0.00	0.00	19.13	7,640,000.00 <i>gal</i>
Application event totals			131.99	16.17	101.01	757.66	
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
Canal		Surface water	0.00	0.00	0.00	19.13	7,640,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	19.13	
07/08/2023	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
Canal		Surface water	0.00	0.00	0.00	19.13	7,640,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	19.13	

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## 17-2 - 06/01/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
07/19/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	131.99	16.17	101.01	738.53	2,500,000.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	19.13	7,640,000.00 <i>gal</i>
Application event totals		131.99	16.17	101.01	757.66	
07/28/2023	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
Canal	Surface water	0.00	0.00	0.00	19.13	7,640,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	19.13	
08/07/2023	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
Canal	Surface water	0.00	0.00	0.00	19.13	7,640,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	19.13	
08/15/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	19.13	7,640,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	19.13	

## 19-5 - 11/01/2022: Wheat, silage, boot stage

Field name: 19-5

Crop: Wheat, silage, boot stage

Plant date: 11/01/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
02/15/2023	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
Canal	Surface water	0.00	0.00	0.00	17.11	6,264,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	17.11	

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## 19-5 - 11/01/2022: Wheat, silage, boot stage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
03/01/2023	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
Canal	Surface water	0.00	0.00	0.00	17.11	6,264,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	17.11	
03/27/2023	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
Canal	Surface water	0.00	0.00	0.00	17.11	6,264,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	17.11	

## 19-5 - 06/01/2023: Corn, silage

Field name: 19-5

Crop: Corn, silage

Plant date: 06/01/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
06/12/2023	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
Canal	Surface water	0.00	0.00	0.00	23.60	8,640,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	23.60	
07/06/2023	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
Canal	Surface water	0.00	0.00	0.00	23.60	8,640,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	23.60	
07/20/2023	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
Canal	Surface water	0.00	0.00	0.00	23.60	8,640,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	23.60	

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**19-5 - 06/01/2023: Corn, silage**

Application date	Application method	Precipitation 24 hours prior		Precipitation during application			Precipitation 24 hours following	
07/31/2023	Surface (irrigation)	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
WW		Process wastewater	107.13	13.12	81.98	599.42	1,860,000.00 <i>gal</i>	
Canal		Surface water	0.00	0.00	0.00	23.60	8,640,000.00 <i>gal</i>	
Application event totals			107.13	13.12	81.98	623.02		
08/08/2023	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	
WW		Process wastewater	108.29	14.68	68.30	609.86	1,860,000.00 <i>gal</i>	
Canal		Surface water	0.00	0.00	0.00	23.60	8,640,000.00 <i>gal</i>	
Application event totals			108.29	14.68	68.30	633.46		
08/19/2023	Surface (irrigation)	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
Canal		Surface water	0.00	0.00	0.00	23.60	8,640,000.00 <i>gal</i>	
Application event totals			0.00	0.00	0.00	23.60		
08/26/2023	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	
Canal		Surface water	0.00	0.00	0.00	23.60	8,640,000.00 <i>gal</i>	
Application event totals			0.00	0.00	0.00	23.60		

**19-6 - 11/01/2022: Wheat, silage, boot stage**

Field name: 19-6

Crop: Wheat, silage, boot stage Plant date: 11/01/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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**19-6 - 11/01/2022: Wheat, silage, boot stage**

Application date	Application method		Precipitation 24 hours prior	Precipitation during application			Precipitation 24 hours following	
02/02/2023	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	
Canal		Surface water	0.00	0.00	0.00	17.22	6,304,000.00 <i>gal</i>	
Application event totals			0.00	0.00	0.00	17.22		
03/16/2023	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	
Canal		Surface water	0.00	0.00	0.00	14.81	5,424,000.00 <i>gal</i>	
Application event totals			0.00	0.00	0.00	14.81		
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	
Canal		Surface water	0.00	0.00	0.00	15.85	5,804,000.00 <i>gal</i>	
Application event totals			0.00	0.00	0.00	15.85		

**19-6 - 06/01/2023: Corn, silage**

Field name: 19-6

Crop: Corn, silage

Plant date: 06/01/2023

Application date	Application method		Precipitation 24 hours prior	Precipitation during application			Precipitation 24 hours following
06/13/2023	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
Canal		Surface water	0.00	0.00	0.00	23.72	8,684,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	23.72	
07/08/2023	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
WW		Process wastewater	120.78	14.80	92.43	675.80	2,097,000.00 <i>gal</i>
Canal		Surface water	0.00	0.00	0.00	24.54	8,984,000.00 <i>gal</i>
Application event totals			120.78	14.80	92.43	700.33	

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**19-6 - 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
Canal	Surface water	0.00	0.00	0.00	21.54	7,888,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	21.54	
07/29/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	26.99	9,884,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	26.99	
08/08/2023	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
WW	Process wastewater	122.02	16.55	76.97	687.24	2,096,000.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	27.27	9,984,000.00 <i>gal</i>
Application event totals		122.02	16.55	76.97	714.51	
08/19/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	21.54	7,888,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	21.54	
08/28/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	24.54	8,984,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	24.54	

**20-1 - 11/01/2022: Wheat, silage, boot stage**

Field name: 20-1

Crop: Wheat, silage, boot stage

Plant date: 11/01/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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Reporting period 01/01/2023 to 12/31/2023.

## 20-1 - 11/01/2022: Wheat, silage, boot stage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
02/26/2023	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
WW	Process wastewater	196.90	23.78	144.91	801.53	5,560,000.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	11.49	6,120,000.00 <i>gal</i>
Application event totals		196.90	23.78	144.91	813.02	
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
WW	Process wastewater	90.66	10.95	66.72	369.05	2,560,000.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	11.49	6,120,000.00 <i>gal</i>
Application event totals		90.66	10.95	66.72	380.54	
03/22/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	90.66	10.95	66.72	369.05	2,560,000.00 <i>gal</i>
Application event totals		90.66	10.95	66.72	369.05	

## 20-1 - 06/01/2023: Corn, silage

Field name: 20-1

Crop: Corn, silage

Plant date: 06/01/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application			Precipitation 24 hours following	
05/11/2023	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
Canal		Surface water	0.00	0.00	0.00	22.31	11,880,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	22.31	

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20-1 - 06/01/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
06/02/2023	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
Canal	Surface water	0.00	0.00	0.00	15.25	8,120,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	15.25	
06/14/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	22.31	11,880,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	22.31	
06/25/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	22.31	11,880,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	22.31	
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
WW	Process wastewater	178.19	21.83	136.36	997.02	4,500,000.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	15.25	8,120,000.00 <i>gal</i>
Application event totals		178.19	21.83	136.36	1,012.27	
07/14/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	15.25	8,120,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	15.25	
07/24/2023	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
WW	Process wastewater	180.11	24.42	113.61	1,014.39	4,500,000.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	22.31	11,880,000.00 <i>gal</i>
Application event totals		180.11	24.42	113.61	1,036.69	



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**20-1 - 06/01/2023: Corn, silage**

Application date	Application method		Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following		
07/31/2023	Surface (irrigation)		No precipitation		No precipitation		No precipitation		
Source description			Material type		N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal			Surface water		0.00	0.00	0.00	22.19	11,820,000.00 <i>gal</i>
Application event totals					0.00	0.00	0.00	22.19	
08/10/2023	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
Canal			Surface water		0.00	0.00	0.00	15.25	8,120,000.00 <i>gal</i>
Application event totals					0.00	0.00	0.00	15.25	

**21-5N - 11/01/2022: Wheat, silage, soft dough**

Field name: 21-5N

Crop: Wheat, silage, soft dough

Plant date: 11/01/2022

Application date	Application method		Precipitation 24 hours prior		Precipitation during application			Precipitation 24 hours following	
02/20/2023	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		
Canal		Surface water	0.00	0.00	0.00	18.60	3,096,000.00 <i>gal</i>		
Application event totals			0.00	0.00	0.00	18.60			
03/14/2023	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		
Canal		Surface water	0.00	0.00	0.00	18.60	3,096,000.00 <i>gal</i>		
Application event totals			0.00	0.00	0.00	18.60			
04/18/2023	Surface (irrigation)		No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount		
Canal		Surface water	0.00	0.00	0.00	18.60	3,096,000.00 <i>gal</i>		
Application event totals			0.00	0.00	0.00	18.60			

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21-5N - 06/01/2023: Corn, silage

Field name: 21-5N

Crop: Corn, silage

Plant date: 06/01/2023

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	
Canal		Surface water	0.00	0.00	0.00	17.30	2,880,000.00 <i>gal</i>	
Application event totals			0.00	0.00	0.00	17.30		
05/29/2023	Surface (irrigation)	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
Canal		Surface water	0.00	0.00	0.00	18.70	3,112,000.00 <i>gal</i>	
Application event totals			0.00	0.00	0.00	18.70		
06/11/2023	Surface (irrigation)	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
Canal		Surface water	0.00	0.00	0.00	17.30	2,880,000.00 <i>gal</i>	
Application event totals			0.00	0.00	0.00	17.30		
06/21/2023	Surface (irrigation)	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
Canal		Surface water	0.00	0.00	0.00	18.70	3,112,000.00 <i>gal</i>	
Application event totals			0.00	0.00	0.00	18.70		
06/30/2023	Surface (irrigation)	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
Canal		Surface water	0.00	0.00	0.00	18.70	3,112,000.00 <i>gal</i>	
Application event totals			0.00	0.00	0.00	18.70		

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## 21-5N - 06/01/2023: 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
WW	Process wastewater	107.70	13.19	82.42	602.64	850,000.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	17.30	2,880,000.00 <i>gal</i>
Application event totals		107.70	13.19	82.42	619.95	
07/19/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	18.70	3,112,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	18.70	
07/28/2023	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
WW	Process wastewater	108.87	14.76	68.67	613.14	850,000.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	12.69	2,112,000.00 <i>gal</i>
Application event totals		108.87	14.76	68.67	625.83	
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
Canal	Surface water	0.00	0.00	0.00	17.30	2,880,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	17.30	
08/10/2023	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
Canal	Surface water	0.00	0.00	0.00	18.70	3,112,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	18.70	

## 21-7 - 11/01/2022: Wheat, silage, boot stage

Field name: 21-7

Crop: Wheat, silage, boot stage

Plant date: 11/01/2022

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

**21-7 - 11/01/2022: Wheat, silage, boot stage**

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
02/26/2023	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
Canal	Surface water	0.00	0.00	0.00	19.11	3,816,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	19.11	
03/14/2023	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
Canal	Surface water	0.00	0.00	0.00	19.11	3,816,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	19.11	
04/08/2023	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
Canal	Surface water	0.00	0.00	0.00	19.11	3,816,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	19.11	

**21-7 - 06/01/2023: Corn, silage**

Field name: 21-7

Crop: Corn, silage

Plant date: 06/01/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application			Precipitation 24 hours following	
05/31/2023	Surface (irrigation)	No precipitation	No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal		Surface water	0.00	0.00	0.00	15.60	3,116,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	15.60	
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
Canal		Surface water	0.00	0.00	0.00	15.60	3,116,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	15.60	

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**21-7 - 06/01/2023: Corn, silage**

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
07/01/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	15.60	3,116,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	15.60	
07/11/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	131.99	16.17	101.01	738.53	1,250,000.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	15.60	3,116,000.00 <i>gal</i>
Application event totals		131.99	16.17	101.01	754.13	
07/22/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	15.60	3,116,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	15.60	
07/30/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	15.60	3,116,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	15.60	
08/06/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	133.42	18.09	84.16	751.40	1,250,000.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	15.60	3,116,000.00 <i>gal</i>
Application event totals		133.42	18.09	84.16	767.00	
08/12/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	15.60	3,116,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	15.60	

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21-7 - 06/01/2023: Corn, silage

Application date	Application method		Precipitation 24 hours prior	Precipitation during application			Precipitation 24 hours following		
08/19/2023	Surface (irrigation)		No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount		
Canal		Surface water	0.00	0.00	0.00	15.60	3,116,000.00 <i>gal</i>		
Application event totals			0.00	0.00	0.00	15.60			
08/26/2023	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		
Canal		Surface water	0.00	0.00	0.00	15.60	3,116,000.00 <i>gal</i>		
Application event totals			0.00	0.00	0.00	15.60			
08/31/2023	Surface (irrigation)		No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount		
Canal		Surface water	0.00	0.00	0.00	15.60	3,116,000.00 <i>gal</i>		
Application event totals			0.00	0.00	0.00	15.60			

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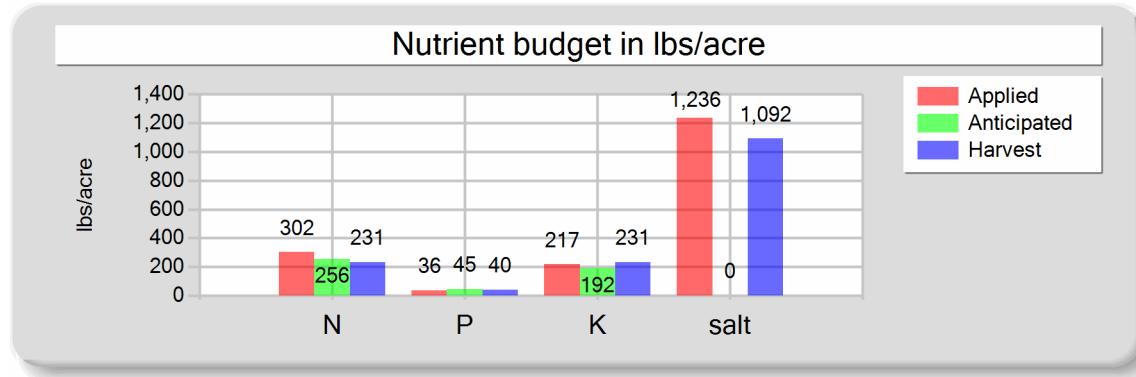
## B. NUTRIENT BUDGET

13-15 - 11/01/2022: Wheat, silage, boot stage

Field name: 13-15

Crop: Wheat, silage, boot stage

Plant date: 11/01/2022



	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	21,104,000.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	777.19 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	8.64 inches/acre
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	294.90	35.61	217.03	1,200.44	Process wastewater applied
Fresh water	0.00	0.00	0.00	35.22	9,368,000.00 gallons
Atmospheric deposition	7.00	0.00	0.00	0.00	344.99 acre-inches
Total nutrients applied	301.90	35.61	217.03	1,235.66	3.83 inches/acre
Anticipated crop nutrient removal	256.00	44.80	192.00	0.00	
Actual crop nutrient removal	231.11	39.96	231.11	1,091.82	Total harvests for the crop
Nutrient balance	70.79	-4.34	-14.08	143.84	1 harvests
Applied to removed ratio	1.31	0.89	0.94	1.13	

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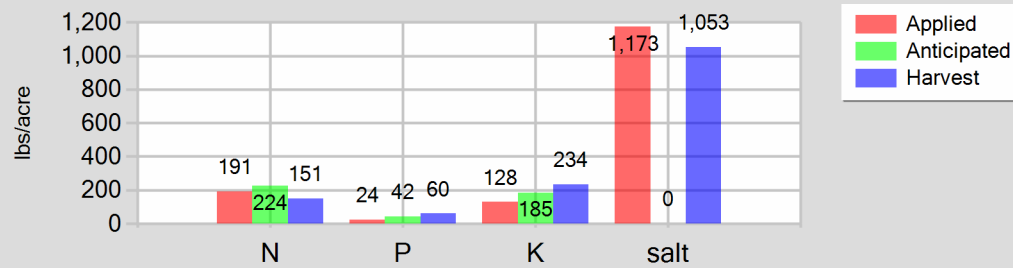
13-15 - 06/01/2023: Corn, silage

Field name: 13-15

Crop: Corn, silage

Plant date: 06/01/2023

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	184.01	23.75	128.38	1,033.02
Fresh water	0.00	0.00	0.00	140.21
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	191.01	23.75	128.38	1,173.22
Anticipated crop nutrient removal	224.00	42.00	184.80	0.00
Actual crop nutrient removal	151.11	59.87	233.79	1,053.46
Nutrient balance	39.91	-36.12	-105.40	119.76
Applied to removed ratio	1.26	0.40	0.55	1.11

Fresh water applied
84,006,000.00 gallons
3,093.66 acre-inches
34.37 inches/acre
Process wastewater applied
5,200,000.00 gallons
191.50 acre-inches
2.13 inches/acre
Total harvests for the crop
1 harvests



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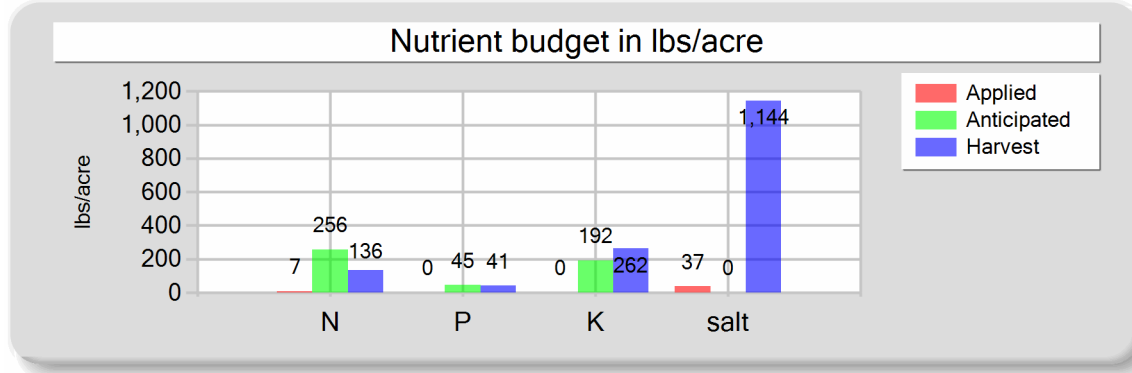
Reporting period 01/01/2023 to 12/31/2023.

16-7 - 11/01/2022: Wheat, silage, boot stage

Field name: 16-7

Crop: Wheat, silage, boot stage

Plant date: 11/01/2022



	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	17,280,000.00 <i>gallons</i>
Plowdown credit	0.00	0.00	0.00	0.00	636.36 <i>acre-inches</i>
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	9.09 <i>inches/acre</i>
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	0.00	0.00	0.00	37.08	
Atmospheric deposition	7.00	0.00	0.00	0.00	
Total nutrients applied	7.00	0.00	0.00	37.08	
Anticipated crop nutrient removal	256.00	44.80	192.00	0.00	
Actual crop nutrient removal	135.77	41.14	262.29	1,143.80	
Nutrient balance	-128.77	-41.14	-262.29	-1,106.71	
Applied to removed ratio	0.05	0.00	0.00	0.03	
					<b>Process wastewater applied</b>
					0.00 <i>gallons</i>
					0.00 <i>acre-inches</i>
					0.00 <i>inches/acre</i>
					<b>Total harvests for the crop</b>
					1 <i>harvests</i>

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

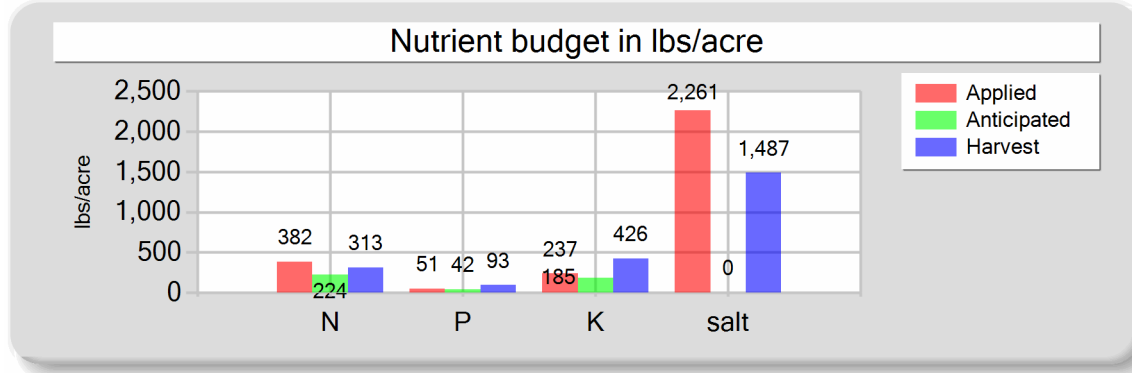
Reporting period 01/01/2023 to 12/31/2023.

16-7 - 06/01/2023: Corn, silage

Field name: 16-7

Crop: Corn, silage

Plant date: 06/01/2023



	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	69,120,000.00 <i>gallons</i>
Plowdown credit	0.00	0.00	0.00	0.00	2,545.45 <i>acre-inches</i>
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	36.36 <i>inches/acre</i>
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	375.09	50.86	236.60	2,112.50	Process wastewater applied
Fresh water	0.00	0.00	0.00	148.32	8,200,000.00 <i>gallons</i>
Atmospheric deposition	7.00	0.00	0.00	0.00	301.98 <i>acre-inches</i>
Total nutrients applied	382.09	50.86	236.60	2,260.82	4.31 <i>inches/acre</i>
Anticipated crop nutrient removal	224.00	42.00	184.80	0.00	
Actual crop nutrient removal	313.21	92.64	425.69	1,486.62	Total harvests for the crop
Nutrient balance	68.88	-41.78	-189.10	774.20	1 <i>harvests</i>
Applied to removed ratio	1.22	0.55	0.56	1.52	

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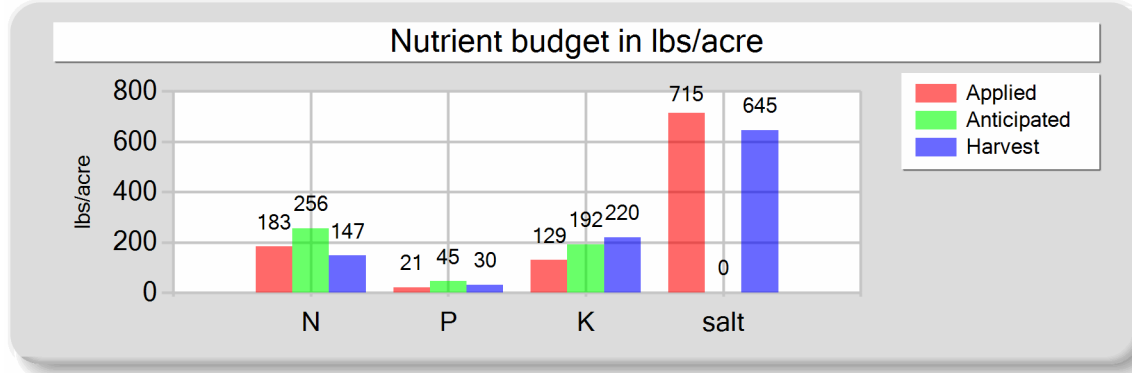
Reporting period 01/01/2023 to 12/31/2023.

17-2 - 11/01/2022: Wheat, silage, boot stage

Field name: 17-2

Crop: Wheat, silage, boot stage

Plant date: 11/01/2022



	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	0.00 <i>gallons</i>
Plowdown credit	0.00	0.00	0.00	0.00	0.00 <i>acre-inches</i>
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	0.00 <i>inches/acre</i>
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	175.65	21.21	129.27	715.03	
Fresh water	0.00	0.00	0.00	0.00	
Atmospheric deposition	7.00	0.00	0.00	0.00	
Total nutrients applied	182.65	21.21	129.27	715.03	
Anticipated crop nutrient removal	256.00	44.80	192.00	0.00	
Actual crop nutrient removal	146.77	30.06	220.16	644.56	
Nutrient balance	35.88	-8.85	-90.89	70.47	
Applied to removed ratio	1.24	0.71	0.59	1.11	
					Process wastewater applied
					3,720,000.00 <i>gallons</i>
					136.99 <i>acre-inches</i>
					2.28 <i>inches/acre</i>
					Total harvests for the crop
					1 <i>harvests</i>

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

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

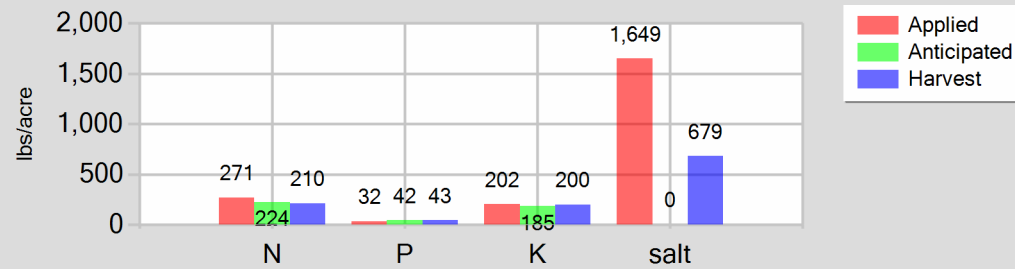
17-2 - 06/01/2023: Corn, silage

Field name: 17-2

Crop: Corn, silage

Plant date: 06/01/2023

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	263.98	32.34	202.02	1,477.07
Fresh water	0.00	0.00	0.00	172.14
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	270.98	32.34	202.02	1,649.21
Anticipated crop nutrient removal	224.00	42.00	184.80	0.00
Actual crop nutrient removal	210.11	42.78	200.05	679.40
Nutrient balance	60.87	-10.44	1.97	969.81
Applied to removed ratio	1.29	0.76	1.01	2.43

Fresh water applied
68,760,000.00 gallons
2,532.20 acre-inches
42.20 inches/acre
Process wastewater applied
5,000,000.00 gallons
184.13 acre-inches
3.07 inches/acre
Total harvests for the crop
1 harvests

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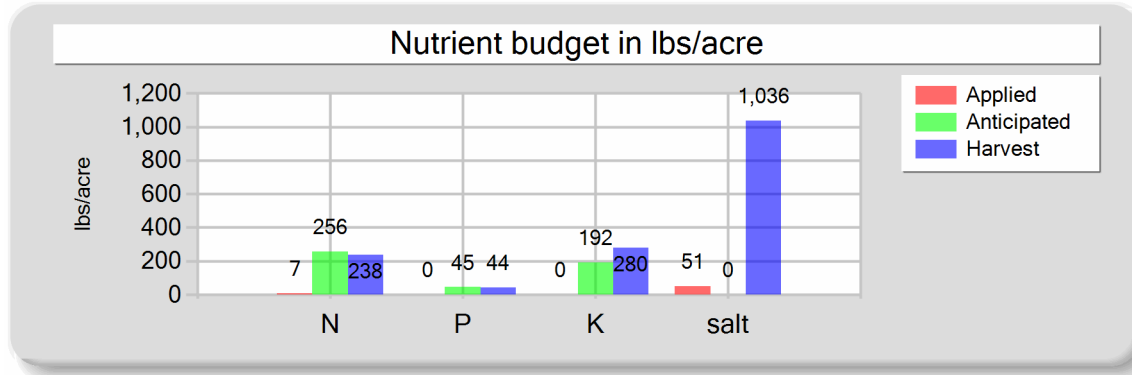
Reporting period 01/01/2023 to 12/31/2023.

19-5 - 11/01/2022: Wheat, silage, boot stage

Field name: 19-5

Crop: Wheat, silage, boot stage

Plant date: 11/01/2022



	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	18,792,000.00 <i>gallons</i>
Plowdown credit	0.00	0.00	0.00	0.00	692.05 <i>acre-inches</i>
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	12.58 <i>inches/acre</i>
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	0.00	0.00	0.00	51.32	
Atmospheric deposition	7.00	0.00	0.00	0.00	
Total nutrients applied	7.00	0.00	0.00	51.32	
Anticipated crop nutrient removal	256.00	44.80	192.00	0.00	
Actual crop nutrient removal	237.99	43.51	279.73	1,036.32	
Nutrient balance	-230.99	-43.51	-279.73	-985.00	
Applied to removed ratio	0.03	0.00	0.00	0.05	
					<b>Process wastewater applied</b>
					0.00 <i>gallons</i>
					0.00 <i>acre-inches</i>
					0.00 <i>inches/acre</i>
					<b>Total harvests for the crop</b>
					1 <i>harvests</i>

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

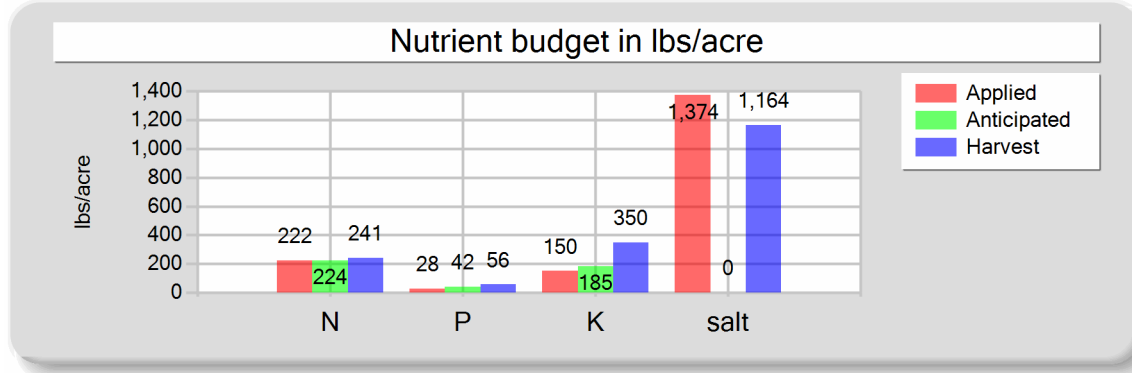
Reporting period 01/01/2023 to 12/31/2023.

19-5 - 06/01/2023: Corn, silage

Field name: 19-5

Crop: Corn, silage

Plant date: 06/01/2023



	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	60,480,000.00 <i>gallons</i>
Plowdown credit	0.00	0.00	0.00	0.00	2,227.27 <i>acre-inches</i>
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	40.50 <i>inches/acre</i>
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	215.41	27.81	150.29	1,209.28	Process wastewater applied
Fresh water	0.00	0.00	0.00	165.18	3,720,000.00 <i>gallons</i>
Atmospheric deposition	7.00	0.00	0.00	0.00	136.99 <i>acre-inches</i>
Total nutrients applied	222.41	27.81	150.29	1,374.46	2.49 <i>inches/acre</i>
Anticipated crop nutrient removal	224.00	42.00	184.80	0.00	
Actual crop nutrient removal	240.74	56.17	349.87	1,163.56	Total harvests for the crop
Nutrient balance	-18.32	-28.37	-199.59	210.89	1 <i>harvests</i>
Applied to removed ratio	0.92	0.50	0.43	1.18	

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

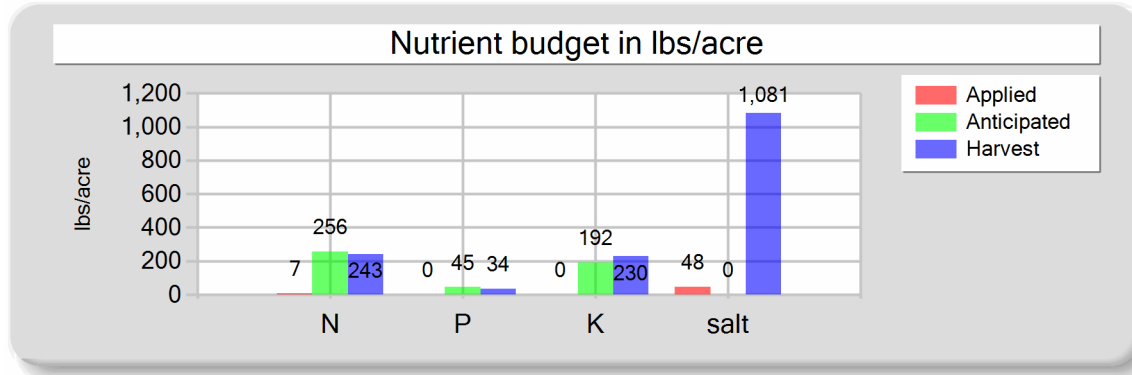
Reporting period 01/01/2023 to 12/31/2023.

19-6 - 11/01/2022: Wheat, silage, boot stage

Field name: 19-6

Crop: Wheat, silage, boot stage

Plant date: 11/01/2022



	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	0.00	0.00	0.00	0.00
Fresh water	0.00	0.00	0.00	47.88
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	7.00	0.00	0.00	47.88
Anticipated crop nutrient removal	256.00	44.80	192.00	0.00
Actual crop nutrient removal	242.64	33.74	229.66	1,080.85
Nutrient balance	-235.64	-33.74	-229.66	-1,032.97
Applied to removed ratio	0.03	0.00	0.00	0.04

Fresh water applied
17,532,000.00 <i>gallons</i>
645.64 <i>acre-inches</i>
11.74 <i>inches/acre</i>

Process wastewater applied
0.00 <i>gallons</i>
0.00 <i>acre-inches</i>
0.00 <i>inches/acre</i>

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

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

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

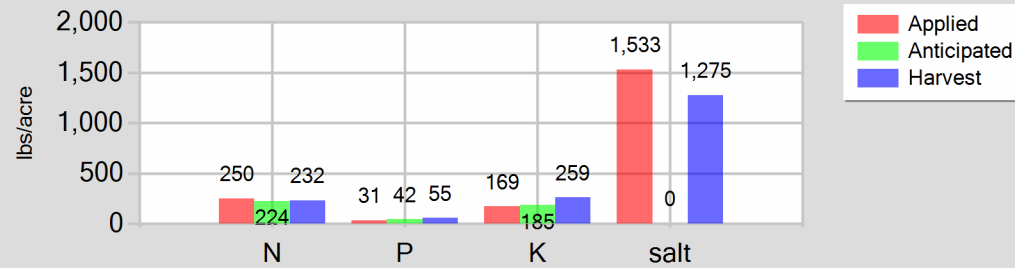
19-6 - 06/01/2023: Corn, silage

Field name: 19-6

Crop: Corn, silage

Plant date: 06/01/2023

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	242.80	31.34	169.40	1,363.04
Fresh water	0.00	0.00	0.00	170.14
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	249.80	31.34	169.40	1,533.18
Anticipated crop nutrient removal	224.00	42.00	184.80	0.00
Actual crop nutrient removal	232.09	55.34	258.86	1,274.68
Nutrient balance	17.72	-24.00	-89.46	258.49
Applied to removed ratio	1.08	0.57	0.65	1.20

Fresh water applied
62,296,000.00 gallons
2,294.15 acre-inches
41.71 inches/acre

Process wastewater applied
4,193,000.00 gallons
154.41 acre-inches
2.81 inches/acre

Total harvests for the crop
1 harvests



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

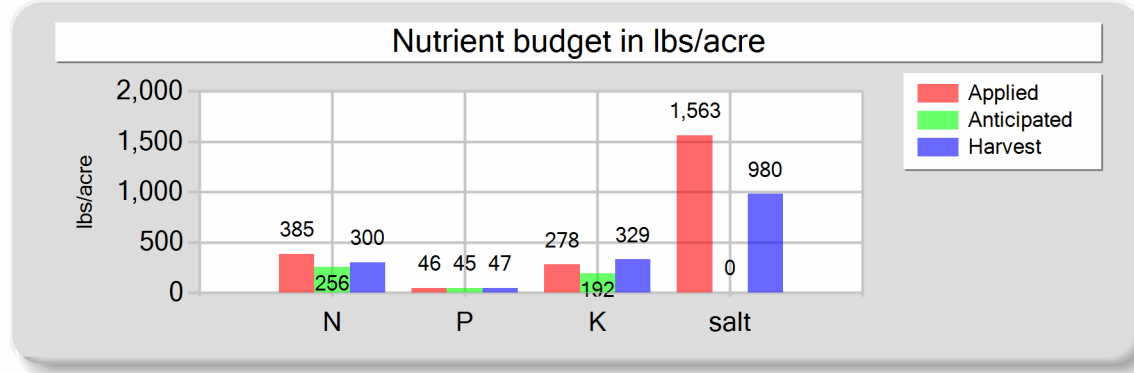
Reporting period 01/01/2023 to 12/31/2023.

20-1 - 11/01/2022: Wheat, silage, boot stage

Field name: 20-1

Crop: Wheat, silage, boot stage

Plant date: 11/01/2022



	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	378.22	45.68	278.35	1,539.63
Fresh water	0.00	0.00	0.00	22.98
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	385.22	45.68	278.35	1,562.61
Anticipated crop nutrient removal	256.00	44.80	192.00	0.00
Actual crop nutrient removal	300.45	47.23	328.59	979.73
Nutrient balance	84.77	-1.55	-50.24	582.88
Applied to removed ratio	1.28	0.97	0.85	1.59

Fresh water applied
12,240,000.00 gallons
450.76 acre-inches
5.63 inches/acre

Process wastewater applied
10,680,000.00 gallons
393.31 acre-inches
4.92 inches/acre

Total harvests for the crop
1 harvests

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

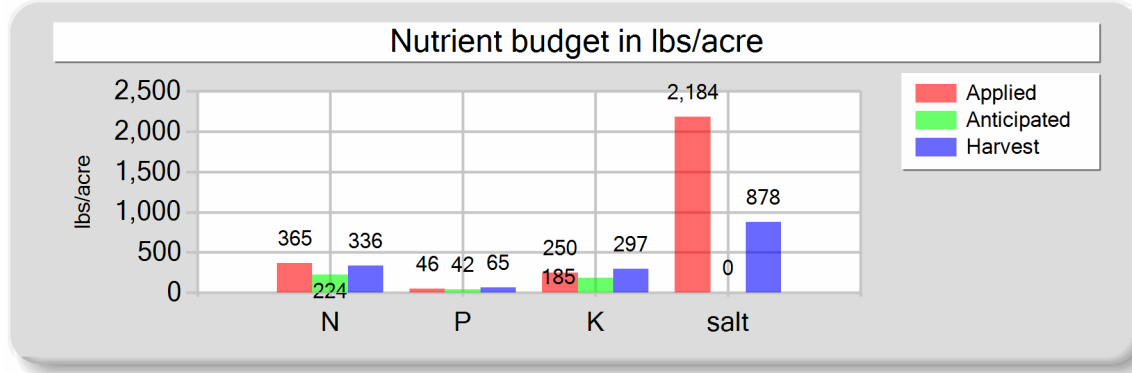
Reporting period 01/01/2023 to 12/31/2023.

20-1 - 06/01/2023: Corn, silage

Field name: 20-1

Crop: Corn, silage

Plant date: 06/01/2023



	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	91,820,000.00 <i>gallons</i>
Plowdown credit	0.00	0.00	0.00	0.00	3,381.42 <i>acre-inches</i>
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	42.27 <i>inches/acre</i>
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	358.30	46.25	249.97	2,011.41	Process wastewater applied
Fresh water	0.00	0.00	0.00	172.40	9,000,000.00 <i>gallons</i>
Atmospheric deposition	7.00	0.00	0.00	0.00	331.44 <i>acre-inches</i>
Total nutrients applied	365.30	46.25	249.97	2,183.81	4.14 <i>inches/acre</i>
Anticipated crop nutrient removal	224.00	42.00	184.80	0.00	
Actual crop nutrient removal	336.36	65.31	297.17	878.44	Total harvests for the crop
Nutrient balance	28.94	-19.06	-47.20	1,305.36	1 <i>harvests</i>
Applied to removed ratio	1.09	0.71	0.84	2.49	

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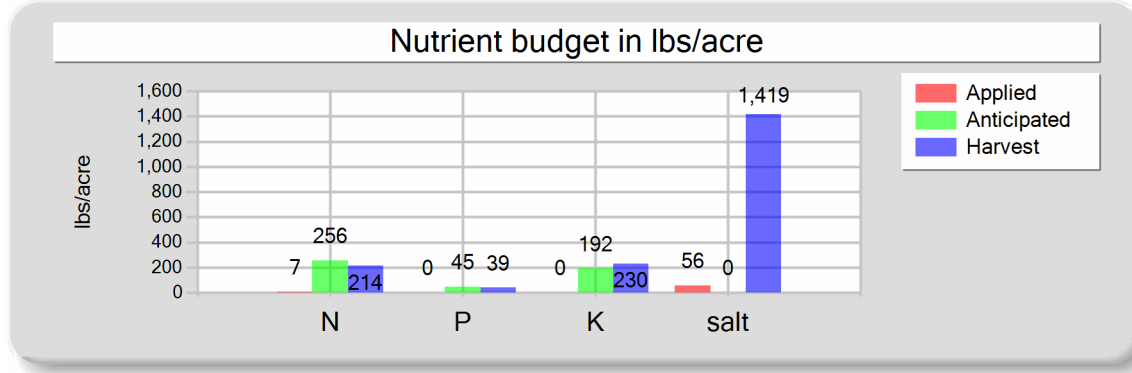
Reporting period 01/01/2023 to 12/31/2023.

21-5N - 11/01/2022: Wheat, silage, soft dough

Field name: 21-5N

Crop: Wheat, silage, soft dough

Plant date: 11/01/2022



	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	9,288,000.00 <i>gallons</i>
Plowdown credit	0.00	0.00	0.00	0.00	342.05 <i>acre-inches</i>
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	13.68 <i>inches/acre</i>
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	0.00	0.00	0.00	55.81	
Atmospheric deposition	7.00	0.00	0.00	0.00	
Total nutrients applied	7.00	0.00	0.00	55.81	
Anticipated crop nutrient removal	256.00	44.80	192.00	0.00	
Actual crop nutrient removal	214.38	38.98	230.21	1,419.05	
Nutrient balance	-207.38	-38.98	-230.21	-1,363.24	
Applied to removed ratio	0.03	0.00	0.00	0.04	
					<b>Process wastewater applied</b>
					0.00 <i>gallons</i>
					0.00 <i>acre-inches</i>
					0.00 <i>inches/acre</i>
					<b>Total harvests for the crop</b>
					1 <i>harvests</i>

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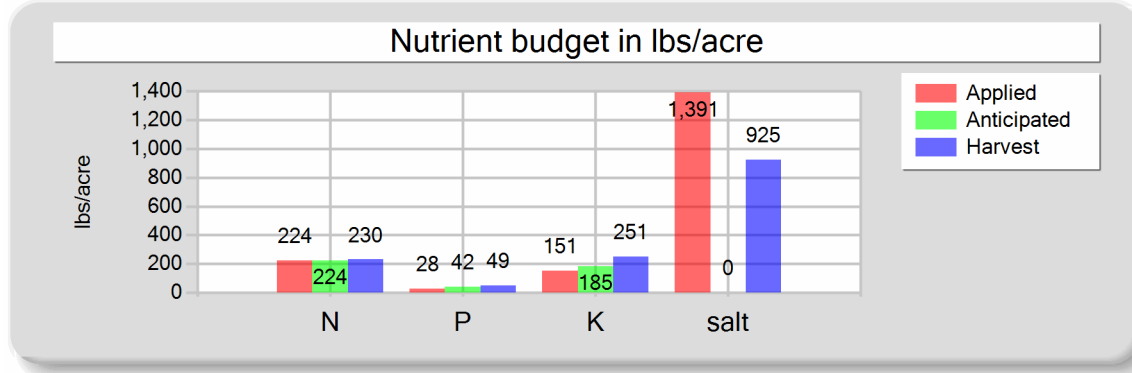
Reporting period 01/01/2023 to 12/31/2023.

21-5N - 06/01/2023: Corn, silage

Field name: 21-5N

Crop: Corn, silage

Plant date: 06/01/2023



	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	29,192,000.00 <i>gallons</i>
Plowdown credit	0.00	0.00	0.00	0.00	1,075.04 <i>acre-inches</i>
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	43.00 <i>inches/acre</i>
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	216.57	27.96	151.09	1,215.78	Process wastewater applied
Fresh water	0.00	0.00	0.00	175.40	1,700,000.00 <i>gallons</i>
Atmospheric deposition	7.00	0.00	0.00	0.00	62.61 <i>acre-inches</i>
Total nutrients applied	223.57	27.96	151.09	1,391.18	2.50 <i>inches/acre</i>
Anticipated crop nutrient removal	224.00	42.00	184.80	0.00	
Actual crop nutrient removal	230.17	49.42	251.35	924.92	Total harvests for the crop
Nutrient balance	-6.60	-21.47	-100.26	466.26	1 <i>harvests</i>
Applied to removed ratio	0.97	0.57	0.60	1.50	

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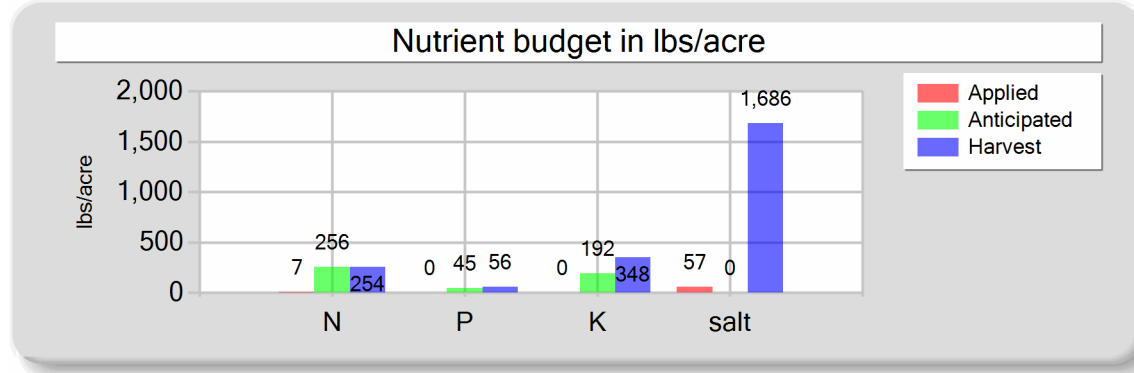
Reporting period 01/01/2023 to 12/31/2023.

21-7 - 11/01/2022: Wheat, silage, boot stage

Field name: 21-7

Crop: Wheat, silage, boot stage

Plant date: 11/01/2022



	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	11,448,000.00 <i>gallons</i>
Plowdown credit	0.00	0.00	0.00	0.00	421.59 <i>acre-inches</i>
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	14.05 <i>inches/acre</i>
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	0.00	0.00	0.00	57.32	
Atmospheric deposition	7.00	0.00	0.00	0.00	
Total nutrients applied	7.00	0.00	0.00	57.32	
Anticipated crop nutrient removal	256.00	44.80	192.00	0.00	
Actual crop nutrient removal	254.21	56.49	347.77	1,685.91	
Nutrient balance	-247.21	-56.49	-347.77	-1,628.59	
Applied to removed ratio	0.03	0.00	0.00	0.03	
					<b>Process wastewater applied</b>
					0.00 <i>gallons</i>
					0.00 <i>acre-inches</i>
					0.00 <i>inches/acre</i>
					<b>Total harvests for the crop</b>
					1 <i>harvests</i>

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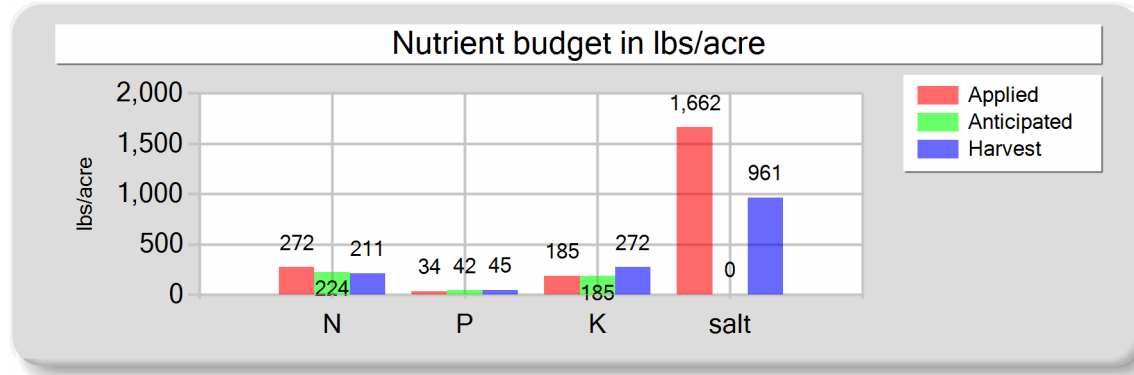
Reporting period 01/01/2023 to 12/31/2023.

21-7 - 06/01/2023: Corn, silage

Field name: 21-7

Crop: Corn, silage

Plant date: 06/01/2023



	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	34,276,000.00 <i>gallons</i>
Plowdown credit	0.00	0.00	0.00	0.00	1,262.27 <i>acre-inches</i>
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	42.08 <i>inches/acre</i>
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	265.41	34.26	185.17	1,489.93	Process wastewater applied
Fresh water	0.00	0.00	0.00	171.62	2,500,000.00 <i>gallons</i>
Atmospheric deposition	7.00	0.00	0.00	0.00	92.07 <i>acre-inches</i>
Total nutrients applied	272.41	34.26	185.17	1,661.55	3.07 <i>inches/acre</i>
Anticipated crop nutrient removal	224.00	42.00	184.80	0.00	
Actual crop nutrient removal	210.69	45.38	272.27	961.06	Total harvests for the crop
Nutrient balance	61.72	-11.12	-87.11	700.49	1 <i>harvests</i>
Applied to removed ratio	1.29	0.75	0.68	1.73	

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

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

## NUTRIENT ANALYSES

## A. MANURE ANALYSES

## Dry Manure

Sample and source description: Dry Manure

Sample date: 06/09/2023 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 30.3 %

	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	15,700.00	6,100.00	25,900.00	18,000.00	6,800.00	7,500.00	4,600.00	73.60		40.27
DL	100.00	100.00	100.00	100.00	100.00	100.00	100.00	1.00		1.00

## Dry Manure

Sample and source description: Dry Manure

Sample date: 10/27/2023 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 29.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	14,100.00	5,500.00	18,800.00							57.70
DL	100.00	100.00	100.00							1.00

## B. PROCESS WASTEWATER ANALYSES

## 1st Qtr WW

Sample and source description: 1st Qtr WW

Sample date: 02/03/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 7.58

	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	339.50	66.79	0.00	0.00	41.00	249.85								2,160.00	1,382
DL	67.00	0.57	0.01	0.01	0.64	0.01								1.00	19

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

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

## 2nd Qtr WW

Sample and source description: 2nd Qtr WW

Sample date: 06/09/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 7.47

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
<b>Value</b>	379.60	139.50	0.00	0.00	46.50	290.50	6.30	5.00	7.70	0.00	31.60	1.10	3.60	3,300.00	2,124
<b>DL</b>	67.00	0.57	0.01	0.01	0.64	0.01	0.02	0.01	0.01	0.10	0.01	0.02	0.01	0.01	19

## 3rd Qtr WW

Sample and source description: 3rd Qtr WW

Sample date: 09/13/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 7.43

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
<b>Value</b>	383.70	150.12	0.00	0.00	52.03	242.03								3,377.00	2,161
<b>DL</b>	67.00	0.57	0.01	0.01	0.57	0.01								1.00	19

## 4th Qtr WW

Sample and source description: 4th Qtr WW

Sample date: 12/08/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 7.47

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
<b>Value</b>	429.70	131.60	0.00	0.00	43.36	190.03								2,557.00	1,638
<b>DL</b>	67.00	0.57	0.01	0.01	0.64	0.01								1.00	19

## C. FRESH WATER ANALYSES

Canal



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

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

## Canal

### Canal

Sample description: Canal

Sample date: 08/16/2023 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)
<b>Value</b>	0.00										30.00	
<b>DL</b>	0.10										1.00	

## D1 & D2

### D1 & D2

Sample description: D1 & D2

Sample date: 12/12/2023 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)
<b>Value</b>	0.00										240.00	
<b>DL</b>	0.10										1.00	

## D. SOIL ANALYSES

*No soil analyses entered.*

## E. PLANT TISSUE ANALYSES

13-15 - 11/01/2022: Wheat, silage, boot stage

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

13-15 - 11/01/2022: Wheat, silage, boot stage

13-15

Sample and source description: 13-15

Sample date: 05/23/2023 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	21,400.00	3,700.00	21,400.00		10.11
DL	100.00	100.00	100.00		1.00

13-15 - 06/01/2023: Corn, silage

13-15

Sample and source description: 13-15

Sample date: 10/05/2023 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	10,600.00	4,200.00	16,400.00		7.39
DL	100.00	100.00	100.00		1.00

16-7 - 11/01/2022: Wheat, silage, boot stage

16-7

Sample and source description: 16-7

Sample date: 05/15/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 65.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	13,200.00	4,000.00	25,500.00		11.12
DL	100.00	100.00	100.00		1.00

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16-7 - 06/01/2023: Corn, silage

16-7

Sample and source description: 16-7

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

Moisture: 63.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	14,200.00	4,200.00	19,300.00		6.74
<b>DL</b>	100.00	100.00	100.00		1.00

17-2 - 11/01/2022: Wheat, silage, boot stage

17-2

Sample and source description: 17-2

Sample date: 05/15/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 66.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	16,600.00	3,400.00	24,900.00		7.29
<b>DL</b>	100.00	100.00	100.00		1.00

17-2 - 06/01/2023: Corn, silage

17-2

Sample and source description: 17-2

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

Moisture: 66.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	16,700.00	3,400.00	15,900.00		5.40
<b>DL</b>	100.00	100.00	100.00		1.00

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19-5 - 11/01/2022: Wheat, silage, boot stage

19-5

Sample and source description: 19-5

Sample date: 05/23/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 75.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	26,800.00	4,900.00	31,500.00		11.67
<b>DL</b>	100.00	100.00	100.00		1.00

19-5 - 06/01/2023: Corn, silage

19-5

Sample and source description: 19-5

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

Moisture: 65.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	15,000.00	3,500.00	21,800.00		7.25
<b>DL</b>	100.00	100.00	100.00		1.00

19-6 - 11/01/2022: Wheat, silage, boot stage

19-6

Sample and source description: 19-6

Sample date: 05/23/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 62.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	18,700.00	2,600.00	17,700.00		8.33
<b>DL</b>	100.00	100.00	100.00		1.00

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19-6 - 06/01/2023: Corn, silage

19-6

Sample and source description: 19-6

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

Moisture: 62.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	13,000.00	3,100.00	14,500.00		7.14
DL	100.00	100.00	100.00		1.00

20-1 - 11/01/2022: Wheat, silage, boot stage

20-1

Sample and source description: 20-1

Sample date: 05/15/2023 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	29,900.00	4,700.00	32,700.00		9.75
DL	100.00	100.00	100.00		1.00

20-1 - 06/01/2023: Corn, silage

20-1

Sample and source description: 20-1

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

Moisture: 65.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	20,600.00	4,000.00	18,200.00		5.38
DL	100.00	100.00	100.00		1.00

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

21-5N - 11/01/2022: Wheat, silage, soft dough

21-5

Sample and source description: 21-5

Sample date: 05/15/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 65.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	17,600.00	3,200.00	18,900.00		11.65
<b>DL</b>	100.00	100.00	100.00		1.00

21-5N - 06/01/2023: Corn, silage

21-5

Sample and source description: 21-5

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

Moisture: 66.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	16,300.00	3,500.00	17,800.00		6.55
<b>DL</b>	100.00	100.00	100.00		1.00

21-7 - 11/01/2022: Wheat, silage, boot stage

21-7

Sample and source description: 21-7

Sample date: 05/15/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 61.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	14,400.00	3,200.00	19,700.00		9.55
<b>DL</b>	100.00	100.00	100.00		1.00

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21-7 - 06/01/2023: Corn, silage

21-7

Sample and source description: 21-7

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

Moisture: 67.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	13,000.00	2,800.00	16,800.00		5.93
DL	100.00	100.00	100.00		1.00

F. SUBSURFACE (TILE) DRAINAGE ANALYSES

No subsurface (tile) drainage analyses entered.

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

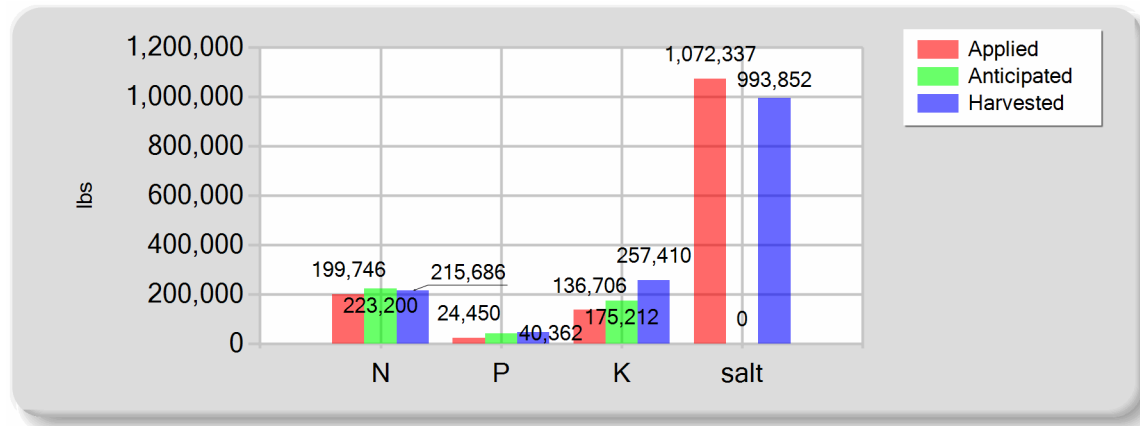
Reporting period 01/01/2023 to 12/31/2023.

**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	0.00	0.00	0.00	0.00
Process wastewater	193,236.24	24,450.36	136,706.42	981,064.57
Fresh water	0.00	0.00	0.00	91,272.70
Atmospheric deposition	6,510.00	0.00	0.00	0.00
Total nutrients applied	199,746.24	24,450.36	136,706.42	1,072,337.27
Anticipated crop nutrient removal	223,200.00	40,362.00	175,212.00	0.00
Actual crop nutrient removal	215,685.70	47,371.10	257,409.53	993,851.99
Nutrient balance	-15,939.46	-22,920.74	-120,703.11	78,485.28
Applied to removed ratio	0.93	0.52	0.53	1.08

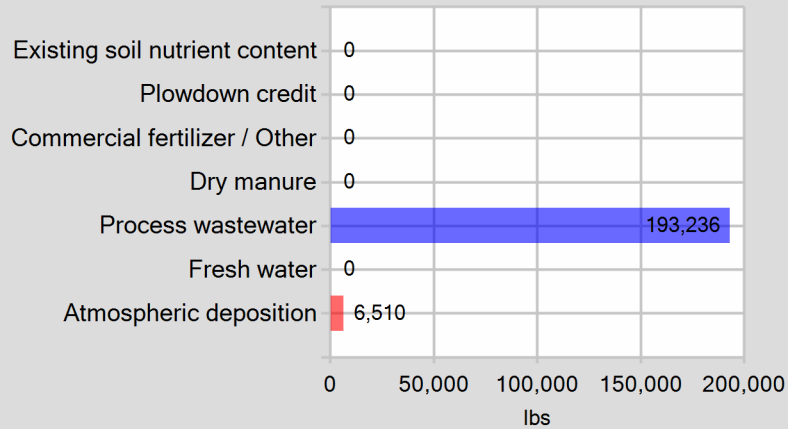
**B. POUNDS OF NUTRIENT APPLIED VS. CROP REMOVAL**



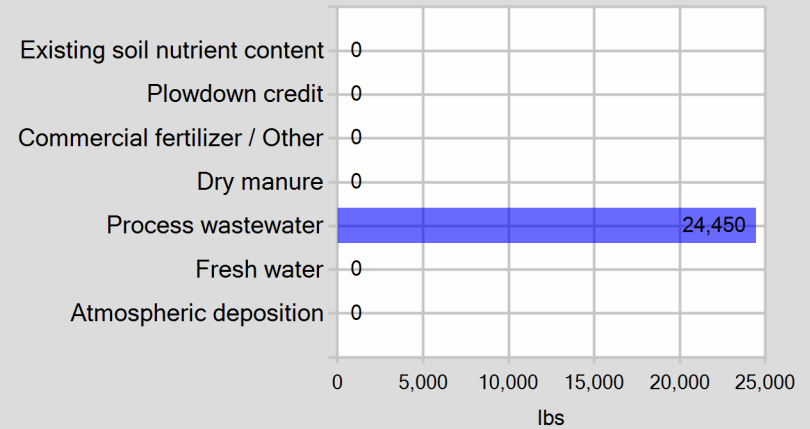


## C. POUNDS OF NUTRIENT APPLIED BY MATERIAL TYPE

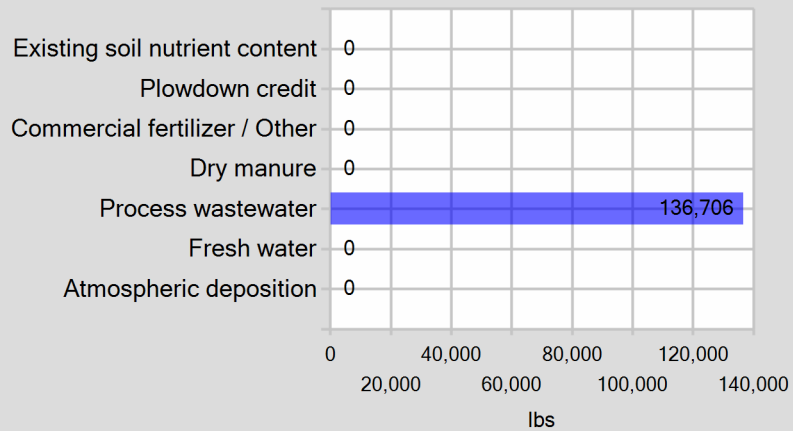
Pounds of nitrogen applied



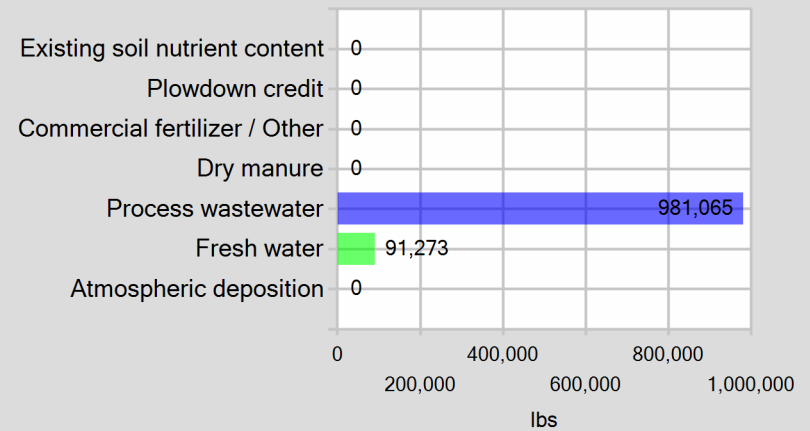
Pounds of phosphorus applied



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**

All wells were negative for Ammonia which we tested onsite using a test strip .

We had an extremely wet year and had early flood release water and then Canal water thru the whole year so no wells were turned on .

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

Stephen D Maddox

PRINT OR TYPE NAME

SIGNATURE OF OPERATOR OF FACILITY

SAME AS OWNER

PRINT OR TYPE NAME

DATE

DATE

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

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

**ATTACHMENTS**

**A. REQUIRED ATTACHMENTS**

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

**Annual Dairy Facility Assessment**

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

**Manure/Process Wastewater Tracking Manifests**

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

**Corrective Actions Documents**

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

**Groundwater Monitoring**

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

**Storm Water Monitoring**

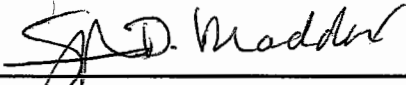
Dischargers that are required to monitor storm water more frequently than required in the General Order must submit monitoring results as directed in the General Order, Storm Water Reporting Section on page MRP-14.

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

CERTIFICATION

A. OWNER AND/OR OPERATOR CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.



SIGNATURE OF OWNER OF FACILITY

SIGNATURE OF OPERATOR OF FACILITY

Stephen D Maddox

SAME AS OWNER

PRINT OR TYPE NAME

PRINT OR TYPE NAME

6-28-2024

DATE

DATE

**Manure / Process Wastewater Tracking Manifest  
For  
Existing Milk Cow Dairies**

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

**INSTRUCTIONS**

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

**OPERATOR INFORMATION**

Name of Operator: Steve Maddox

Name of Dairy Facility: Maddox Dairy Ltd.

Facility Address:

12840 W Kamm AVE  
Number and Street

Riverdale  
City

Fresno  
County

93656  
Zip Code

Contact Person Name and Phone Number: Steve Maddox  
Name

(559) 259-9176  
Phone Number

**MANURE HAULER INFORMATION**

Name of Hauling Company/Person: Thomas Bros Spreading

Address of Hauling Company/Person:

19721 Exceslsior  
Number and Street

Riverdale  
City

CA  
State

93656  
Zip Code

Contact Person: Manuel Thomas  
Name

(559) 906-1406  
Phone Number

**DESTINATION INFORMATION**

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

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

Helm Ranch  
Name

(559) 867-5308  
Phone Number

12863 Kamm AVE  
Address

Riverdale  
City

CA  
State

93656  
Zip Code

Destination Address or Assessor's Parcel Number:

Address

Riverdale  
City

93656  
Zip Code

Helm

Street and nearest cross street (if no address)

Fresno  
County

Assessor's Parcel Number

Assessor's Parcel Number County

Last date hauled: 10/29/2023

**Manure / Process Wastewater Tracking Manifest**  
**For**  
**Existing Milk Cow Dairies**  
General Order No. R5-2007-0035, Attachment D

**MANURE AMOUNT HAULED**

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

Manure: 15,360.00 tons

Manure Solids Content: 71.0 %

Method used to determine amount of manure:

Weighted Average

**CERTIFICATION**

I declare under penalty of law that I personally examined and am familiar with the information submitted in this document, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of a fine and imprisonment for knowing violations.

SND Maddox

Operator Signature

6/28/24

Date

Self-

Hauler Signature

Date



Maddox Dairy  
12863 W. Kamm Ave  
Riverdale, CA 93656

Account# 00-0025828  
Account Manager: Ben Nydam  
Submitted By: Christina Medeiros

Received: 12/13/2023 7:00  
Reported: 12/20/2023 11:13

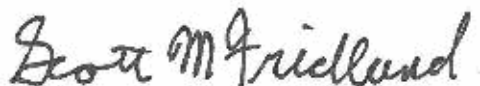
## Samples in this Report

Lab ID	Sample	Matrix	Sampled By	Crop	Date Sampled
23L0661-01	D1&D2	Ag Water	Medeiros		12/12/2023 7:25

Default Cooler      Temperature on Receipt °C: 17.3  
Containers Intact  
COC/Labels Agree  
Received On Ice

## Notes and Definitions

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



Laboratory Director/Technical Manager

ELAP Certification #1595  
A2LA Certification #6440.02

Maddox Dairy  
12863 W. Kamm Ave  
Riverdale, CA 93656

Account# 00-0025828  
Account Manager: Ben Nydam  
Submitted By: Christina Medeiros

Received: 12/13/2023 7:00  
Reported: 12/20/2023 11:13

### Sample Results

**Sample: D1&D2**  
**23L0661-01 (Water)**

Sampled: 12/12/2023 7:25  
Sampled By: Medeiros

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
<b>Electrical Conductivity</b>	<b>0.24</b>	mmhos/cm	0.01	1		12/13/23 15:48	SM 2510 B		BEL0495
<b>Electrical Conductivity umhos</b>	<b>240</b>	umhos/cm	10.0	1		12/13/23 15:48	SM 2510 B		BEL0495
Ammonia (as N)	ND	mg/L	0.00	1		12/12/23 07:25	Field		BEL0515
Nitrate Nitrogen as NO3N	ND	mg/L	0.1	1	10	12/13/23 21:23	EPA 300.0		BEL0447
<b>Temperature</b>	<b>25.0</b>	units	0.0	1		12/13/23 15:48	SM 4500-H+	H	BEL0495
<b>pH</b>	<b>9.3</b>	units	1.0	1		12/13/23 15:48	SM 4500-H+	H	BEL0495

Maddox Dairy  
12863 W. Kamm Ave  
Riverdale, CA 93656

Account# 00-0025828  
Account Manager: Ben Nydam  
Submitted By: Christina Medeiros

Received: 12/13/2023 7:00  
Reported: 12/20/2023 11:13

### Quality Control

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Batch: BEL0447</b>									
<b>Blank (BEL0447-BLK1)</b>				Prepared & Analyzed: 12/13/2023					
Nitrate Nitrogen as NO3N	ND	0.1	mg/L						
<b>Blank (BEL0447-BLK2)</b>				Prepared & Analyzed: 12/13/2023					
Nitrate Nitrogen as NO3N	ND	0.1	mg/L						
<b>Blank (BEL0447-BLK3)</b>				Prepared: 12/13/2023 Analyzed: 12/14/2023					
Nitrate Nitrogen as NO3N	ND	0.1	mg/L						
<b>Blank (BEL0447-BLK4)</b>				Prepared: 12/13/2023 Analyzed: 12/14/2023					
Nitrate Nitrogen as NO3N	ND	0.1	mg/L						
<b>LCS (BEL0447-BS1)</b>				Prepared & Analyzed: 12/13/2023					
Nitrate Nitrogen as NO3N	4.9	0.1	mg/L	5.000		98.1	90-110		
<b>LCS (BEL0447-BS2)</b>				Prepared: 12/13/2023 Analyzed: 12/14/2023					
Nitrate Nitrogen as NO3N	4.9	0.1	mg/L	5.000		98.5	90-110		
<b>LCS (BEL0447-BS3)</b>				Prepared: 12/13/2023 Analyzed: 12/14/2023					
Nitrate Nitrogen as NO3N	0.07	0.1	mg/L	5.000		1.44	90-110		
<b>Duplicate (BEL0447-DUP1)</b>				<b>Source: 23L0636-01</b>		Prepared: 12/13/2023 Analyzed: 12/14/2023			
Nitrate Nitrogen as NO3N	0.04	0.1	mg/L		0.04			5.26	10
<b>Duplicate (BEL0447-DUP2)</b>				<b>Source: 23L0777-05</b>		Prepared: 12/13/2023 Analyzed: 12/14/2023			
Nitrate Nitrogen as NO3N	1.8	0.1	mg/L		1.8			0.112	10
<b>Duplicate (BEL0447-DUP3)</b>				<b>Source: 23L0681-01</b>		Prepared: 12/13/2023 Analyzed: 12/14/2023			
Nitrate Nitrogen as NO3N	0.04	0.1	mg/L		0.04			2.74	10
<b>Matrix Spike (BEL0447-MS1)</b>				<b>Source: 23L0636-01</b>		Prepared & Analyzed: 12/13/2023			
Nitrate Nitrogen as NO3N	4.8	0.1	mg/L	5.000	0.04	96.0	90-110		
<b>Matrix Spike (BEL0447-MS2)</b>				<b>Source: 23L0777-05</b>		Prepared: 12/13/2023 Analyzed: 12/14/2023			
Nitrate Nitrogen as NO3N	6.7	0.1	mg/L	5.000	1.8	98.2	90-110		
<b>Matrix Spike (BEL0447-MS3)</b>				<b>Source: 23L0681-01</b>		Prepared: 12/13/2023 Analyzed: 12/14/2023			
Nitrate Nitrogen as NO3N	4.9	0.1	mg/L	5.000	0.04	98.0	90-110		
<b>Reference (BEL0447-SRM1)</b>				Prepared & Analyzed: 12/13/2023					
Nitrate Nitrogen as NO3N	10.0		mg/L	10.00		99.7	90-110		
<b>Reference (BEL0447-SRM2)</b>				Prepared: 12/13/2023 Analyzed: 12/14/2023					
Nitrate Nitrogen as NO3N	9.8		mg/L	10.00		98.5	90-110		

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Maddox Dairy  
12863 W. Kamm Ave  
Riverdale, CA 93656

Account# 00-0025828  
Account Manager: Ben Nydam  
Submitted By: Christina Medeiros

Received: 12/13/2023 7:00  
Reported: 12/20/2023 11:13

### Quality Control (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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#### Batch: BEL0447 (Continued)

##### Reference (BEL0447-SRM3)

Nitrate Nitrogen as NO3N 9.8 mg/L 10.00 98.2 90-110

Prepared: 12/13/2023 Analyzed: 12/14/2023

##### Reference (BEL0447-SRM4)

Nitrate Nitrogen as NO3N 9.6 mg/L 10.00 95.5 90-110

Prepared: 12/13/2023 Analyzed: 12/14/2023

Maddox Dairy  
12863 W. Kamm Ave  
Riverdale, CA 93656

Account# 00-0025828  
Account Manager: Ben Nydam  
Submitted By: Christina Medeiros

Received: 12/13/2023 7:00  
Reported: 12/20/2023 11:13

### Quality Control (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Batch: BEL0495</b>									
<b>Blank (BEL0495-BLK1)</b>				Prepared & Analyzed: 12/13/2023					
Electrical Conductivity	ND	0.01	mmhos/cm						
Temperature	25.0	0.0	units						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
pH	5.7	1.0	units						
<b>Blank (BEL0495-BLK2)</b>				Prepared & Analyzed: 12/13/2023					
Temperature	25.0	0.0	units						
Electrical Conductivity	ND	0.01	mmhos/cm						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
pH	7.7	1.0	units						
<b>Blank (BEL0495-BLK3)</b>				Prepared & Analyzed: 12/13/2023					
Electrical Conductivity	ND	0.01	mmhos/cm						
Temperature	25.0	0.0	units						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
pH	7.9	1.0	units						
<b>Duplicate (BEL0495-DUP1)</b>				<b>Source: 23L0649-07</b>		Prepared & Analyzed: 12/13/2023			
Electrical Conductivity	0.26	0.01	mmhos/cm		0.26			0.701	10
pH	9.4	1.0	units		9.4			0.106	10
Electrical Conductivity umhos	256	10.0	umhos/cm		258			0.701	10
<b>Duplicate (BEL0495-DUP2)</b>				<b>Source: 23L0666-01</b>		Prepared & Analyzed: 12/13/2023			
Electrical Conductivity	14.3	0.01	mmhos/cm		14.1			1.48	10
Electrical Conductivity umhos	14300	10.0	umhos/cm		14100			1.48	10
pH	7.6	1.0	units		7.6			0.00	10
<b>Reference (BEL0495-SRM1)</b>				Prepared & Analyzed: 12/13/2023					
Electrical Conductivity	445		umhos/cm	426.0		104	90-110		
<b>Reference (BEL0495-SRM2)</b>				Prepared & Analyzed: 12/13/2023					
pH	7.5		units	7.520		100	67021-101.3;		
<b>Reference (BEL0495-SRM3)</b>				Prepared & Analyzed: 12/13/2023					
Electrical Conductivity	1070		umhos/cm	1000		107	90-110		
Electrical Conductivity umhos	1070		umhos/cm	1000		107	90-110		
<b>Reference (BEL0495-SRM4)</b>				Prepared & Analyzed: 12/13/2023					
Electrical Conductivity	1060		umhos/cm	1000		106	90-110		
Electrical Conductivity umhos	1060		umhos/cm	1000		106	90-110		
<b>Reference (BEL0495-SRM5)</b>				Prepared & Analyzed: 12/13/2023					
Electrical Conductivity	1070		umhos/cm	1000		107	90-110		

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Maddox Dairy  
12863 W. Kamm Ave  
Riverdale, CA 93656

Account# 00-0025828  
Account Manager: Ben Nydam  
Submitted By: Christina Medeiros

Received: 12/13/2023 7:00  
Reported: 12/20/2023 11:13

### Quality Control (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Batch: BEL0495 (Continued)</b>									
<b>Reference (BEL0495-SRM5)</b>				Prepared & Analyzed: 12/13/2023					
Electrical Conductivity umhos	1070		umhos/cm	1000		107	90-110		
<b>Reference (BEL0495-SRM6)</b>				Prepared & Analyzed: 12/13/2023					
pH	4.0		units	4.000		100	97.5-102.5		
<b>Reference (BEL0495-SRM7)</b>				Prepared & Analyzed: 12/13/2023					
pH	4.0		units	4.000		101	97.5-102.5		
<b>Reference (BEL0495-SRM8)</b>				Prepared & Analyzed: 12/13/2023					
pH	4.0		units	4.000		100	97.5-102.5		

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12/13/23 07:00

23L0661

**WATER WORK REQUEST**Bill To: Acct No. 25828 Cons. 8

Purchase Order No. \_\_\_\_\_ Results Needed By \_\_\_\_\_

Client Maddox Dairy  
Address 12863 W. Kamm Ave  
City, State, Zip Riverdale Ca 93656  
Email: sdmaddox@yahoo.comCopy to: mel\_tinamedeiros@yahoo.comRequested by/Cell: Christina Medeiros/ 559-903-2490

Facility: \_\_\_\_\_

Date sampled \_\_\_\_\_

Sampled by Medeiros☒ QA/QC Document ☒ Copy of Chain ☐ RWQCB**DESCRIPTION OF SAMPLES**

1. <u>D1 &amp; D2</u>	Sampled From: _____
2. _____	Sampled From: _____
3. _____	Sampled From: _____
4. _____	Sampled From: _____
5. _____	Sampled From: _____
6. _____	Sampled From: _____
7. _____	Sampled From: _____
8. _____	Sampled From: _____
9. _____	Sampled From: _____
10. _____	Sampled From: _____

**DELLAVALLE LABORATORY, INC.**1910 W. McKinley Avenue, Suite 110 • Fresno, CA 93728  
www.dellavallelab.com 559 233-6129 • 800 228-9896 • Fax 559 268-8174No. of Samples \_\_\_\_\_ No. Bottles \_\_\_\_\_  
Water Type: ☒ Drinking ☐ Wastewater  
☒ Ag Water ☐ Ground Water ☐ Mon. Well  
☒ Supply Water ☐ Other \_\_\_\_\_**Analysis and Bottles Required: (Please Indicate Analysis)**

- ☒ EC, NO<sub>3</sub>-N  
(1) 1 L plastic, unpreserved (white)  
☐ DWW1: (EC, pH, NO<sub>3</sub>-N, NH<sub>4</sub>-N Field Test)  
(1) 1 L plastic, unpreserved (white)  
☐ DWW2: (DWW1 Plus SO<sub>4</sub>, CO<sub>3</sub>, HCO<sub>3</sub>, Cl, Ca, Mg, Na, TDS)  
(1) 1 L plastic, unpreserved (white)  
☐ DCW1: (EC, NO<sub>3</sub>-N, TDS)  
(1) 1 L plastic, unpreserved (white)  
☐ DPW1: (EC, pH, NO<sub>3</sub>-N, NH<sub>4</sub>-N, TKN, TDS, TP, TK )  
(1) 1 L plastic, unpreserved (white)  
☐ DPW2: (DPW1 Plus Ca, Mg, Na, HCO<sub>3</sub>, CO<sub>3</sub>, SO<sub>4</sub>, Cl)  
(1) 1 L plastic, unpreserved (white)

☐ Other \_\_\_\_\_

Date Sampled	Time Sampled	Field NH <sub>4</sub> -N (mg/L)	Received Temp °C
<u>12/12/23</u>	<u>7:25 AM</u>	<u>0</u>	<u>17.3</u> <u>H/E</u>
IR Thermometer SN: 200560723 Correction Factor: 0°C Calibration Due: 03/06/2024 Location: Laboratory			
IR Thermometer SN: 221511276 Correction Factor: 0°C Calibration Due: 03/06/2024 Location: Hanford			

**CHAIN OF CUSTODY**

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First	<u>[Signature]</u>			<u>12/12/23 11:32 AM</u>
Second	<u>[Signature]</u>	<u>DU</u>	<u>12/12/23 11:32 AM</u>	
Third				
Fourth	<u>[Signature]</u>	<u>A VI</u>	<u>12/13 07:00</u>	

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

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

Invoicing Information:		Shipping	
<b>Medeiros Pricing 2023</b>		\$ _____	In
Sampling Hrs _____	Miles _____ Consulting _____	\$ _____	Out
Amt Paid _____	Rec By _____	Check No. _____	Date _____

Signature \_\_\_\_\_

Sample received in cooler with ice?

☐ Yes ☐ No

crr:update 2020





12/13/23 07:00

23L0661

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



Maddox Dairy  
12863 W. Kamm Ave  
Riverdale, CA 93656

Account# 00-0025828  
Account Manager: Ben Nydam  
Submitted By: Christina Medeiros

Received: 08/17/2023 8:30  
Reported: 08/23/2023 14:29

## Samples in this Report

Lab ID	Sample	Matrix	Sampled By	Crop	Date Sampled
23H1584-01	Canal	Ag Water			08/16/2023 15:30

Default Cooler      Temperature on Receipt °C: 0.9  
Containers Intact  
COC/Labels Agree  
Received On Ice

## Notes and Definitions

Item	Definition
MCL	Drinking Water Maximum Contaminant Level
ND	Analyte NOT DETECTED at or above the reporting limit.
NES	Not Enough Sample
*	Not Taken



Laboratory Director/Technical Manager

ELAP Certification #1595  
A2LA Certification #6440.02



Maddox Dairy  
12863 W. Kamm Ave  
Riverdale, CA 93656

Account# 00-0025828  
Account Manager: Ben Nydam  
Submitted By: Christina Medeiros

Received: 08/17/2023 8:30  
Reported: 08/23/2023 14:29

## Sample Results

**Sample: Canal**  
**23H1584-01 (Water)**

Sampled: 8/16/2023 15:30

Sampled By:

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
<b>Electrical Conductivity</b>	<b>0.03</b>	mmhos/cm	0.01	1		08/18/23 17:15	SM 2510 B		BEH0918
Nitrate Nitrogen as NO3N	ND	mg/L	0.1	1	10	08/17/23 21:52	EPA 300.0		BEH0886

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Account# 00-0025828  
Account Manager: Ben Nydam  
Submitted By: Christina Medeiros

Received: 08/17/2023 8:30  
Reported: 08/23/2023 14:29

### Quality Control

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Batch: BEH0886</b>									
<b>Blank (BEH0886-BLK1)</b>				Prepared & Analyzed: 8/17/2023					
Nitrate Nitrogen as NO3N	ND	0.1	mg/L						
<b>Blank (BEH0886-BLK2)</b>				Prepared & Analyzed: 8/17/2023					
Nitrate Nitrogen as NO3N	ND	0.1	mg/L						
<b>Blank (BEH0886-BLK3)</b>				Prepared: 8/17/2023 Analyzed: 8/18/2023					
Nitrate Nitrogen as NO3N	ND	0.1	mg/L						
<b>LCS (BEH0886-BS1)</b>				Prepared & Analyzed: 8/17/2023					
Nitrate Nitrogen as NO3N	4.9	0.1	mg/L	5.000		97.8	90-110		
<b>LCS (BEH0886-BS2)</b>				Prepared: 8/17/2023 Analyzed: 8/18/2023					
Nitrate Nitrogen as NO3N	4.9	0.1	mg/L	5.000		98.4	90-110		
<b>Duplicate (BEH0886-DUP1)</b>		<b>Source: 23H0170-01</b>		Prepared & Analyzed: 8/17/2023					
Nitrate Nitrogen as NO3N	0.2	0.1	mg/L		0.2			0.475	10
<b>Duplicate (BEH0886-DUP2)</b>		<b>Source: 23H1556-01</b>		Prepared: 8/17/2023 Analyzed: 8/18/2023					
Nitrate Nitrogen as NO3N	5.8	0.1	mg/L		5.8			0.172	10
<b>Matrix Spike (BEH0886-MS1)</b>		<b>Source: 23H0170-01</b>		Prepared & Analyzed: 8/17/2023					
Nitrate Nitrogen as NO3N	5.2	0.1	mg/L	5.000	0.2	99.6	90-110		
<b>Matrix Spike (BEH0886-MS2)</b>		<b>Source: 23H1556-01</b>		Prepared: 8/17/2023 Analyzed: 8/18/2023					
Nitrate Nitrogen as NO3N	10.8	0.1	mg/L	5.000	5.8	98.9	90-110		
<b>Reference (BEH0886-SRM1)</b>				Prepared & Analyzed: 8/17/2023					
Nitrate Nitrogen as NO3N	9.9		mg/L	10.00		98.8	90-110		
<b>Reference (BEH0886-SRM2)</b>				Prepared: 8/17/2023 Analyzed: 8/18/2023					
Nitrate Nitrogen as NO3N	10.0		mg/L	10.00		99.6	90-110		
<b>Reference (BEH0886-SRM3)</b>				Prepared: 8/17/2023 Analyzed: 8/18/2023					
Nitrate Nitrogen as NO3N	10.0		mg/L	10.00		99.6	90-110		

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

Maddox Dairy  
12863 W. Kamm Ave  
Riverdale, CA 93656

Account# 00-0025828  
Account Manager: Ben Nydam  
Submitted By: Christina Medeiros

Received: 08/17/2023 8:30  
Reported: 08/23/2023 14:29

### Quality Control (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Batch: BEH0918</b>									
<b>Blank (BEH0918-BLK1)</b>									
Electrical Conductivity	ND	0.01	mmhos/cm		Prepared: 8/17/2023	Analyzed: 8/18/2023			
<b>Blank (BEH0918-BLK2)</b>									
Electrical Conductivity	ND	0.01	mmhos/cm		Prepared: 8/17/2023	Analyzed: 8/18/2023			
<b>Blank (BEH0918-BLK3)</b>									
Electrical Conductivity	ND	0.01	mmhos/cm		Prepared: 8/17/2023	Analyzed: 8/18/2023			
<b>Duplicate (BEH0918-DUP1)</b>									
Electrical Conductivity	0.02	0.01	mmhos/cm		Prepared: 8/17/2023	Analyzed: 8/18/2023		9.30	10
<b>Duplicate (BEH0918-DUP2)</b>									
Electrical Conductivity	0.02	0.01	mmhos/cm		Prepared: 8/17/2023	Analyzed: 8/18/2023		0.00	10
<b>Reference (BEH0918-SRM1)</b>									
Electrical Conductivity	511		umhos/cm	538.0	Prepared: 8/17/2023	Analyzed: 8/18/2023	94.9	90-110	
<b>Reference (BEH0918-SRM3)</b>									
Electrical Conductivity	956		umhos/cm	1000	Prepared: 8/17/2023	Analyzed: 8/18/2023	95.6	90-110	
<b>Reference (BEH0918-SRM4)</b>									
Electrical Conductivity	956		umhos/cm	1000	Prepared: 8/17/2023	Analyzed: 8/18/2023	95.6	90-110	
<b>Reference (BEH0918-SRM5)</b>									
Electrical Conductivity	971		umhos/cm	1000	Prepared: 8/17/2023	Analyzed: 8/18/2023	97.1	90-110	

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08/17/23 08:30

23H1584

MV

**WATER WORK REQUEST**Bill To: Acct No. 25828 Cons. 8

Purchase Order No. \_\_\_\_\_ Results Needed By \_\_\_\_\_

Client Maddox Dairy  
Address 12863 W. Kamm Ave  
City, State, Zip Riverdale Ca 93656  
Email: sdmaddox@yahoo.comCopy to: mel\_tinamedeiros@yahoo.comRequested by/Cell: Christina Medeiros/ 559-903-2490

Facility: \_\_\_\_\_

Date sampled \_\_\_\_\_

Sampled by \_\_\_\_\_

☒ QA/QC Document ☒ Copy of Chain ☐ RWQCB**DESCRIPTION OF SAMPLES**

1. <u>Canal</u>	Sampled From: _____
2.	Sampled From: _____
3.	Sampled From: _____
4.	Sampled From: _____
5.	Sampled From: _____
6.	Sampled From: _____
7.	Sampled From: _____
8.	Sampled From: _____
9.	Sampled From: _____
10.	Sampled From: _____

**DELLAVALLE LABORATORY, INC.**1910 W. McKinley Avenue, Suite 110 • Fresno, CA 93728  
www.dellavallelab.com 559 233-6129 • 800 228-9896 • Fax 559 268-8174No. of Samples \_\_\_\_\_ No. Bottles \_\_\_\_\_  
Water Type: ☒ Ag Water ☐ Drinking ☐ Wastewater  
☒ Supply Water ☐ Ground Water ☐ Mon. Well  
☐ Other \_\_\_\_\_**Analysis and Bottles Required: (Please Indicate Analysis)**

- ☒ EC, NO<sub>3</sub>-N  
(1) 1 L plastic, unpreserved (white)
- ☐ DWW1: (EC, pH, NO<sub>3</sub>-N, NH<sub>4</sub>-N Field Test)  
(1) 1 L plastic, unpreserved (white)
- ☐ DWW2: (DWW1 Plus SO<sub>4</sub>, CO<sub>3</sub>, HCO<sub>3</sub>, Cl, Ca, Mg, Na, TDS)  
(1) 1 L plastic, unpreserved (white)
- ☐ DCW1: (EC, NO<sub>3</sub>-N, TDS)  
(1) 1 L plastic, unpreserved (white)
- ☐ DPW1: (EC, pH, NO<sub>3</sub>-N, NH<sub>4</sub>-N, TKN, TDS, TP, TK)  
(1) 1 L plastic, unpreserved (white)
- ☐ DPW2: (DPW1 Plus Ca, Mg, Na, HCO<sub>3</sub>, CO<sub>3</sub>, SO<sub>4</sub>, Cl)  
(1) 1 L plastic, unpreserved (white)

Date Sampled	Time Sampled	Field NH <sub>4</sub> -N (mg/L)	Received Temp °C
<u>8/16/23</u>	<u>3:30pm</u>	<u>0.9</u>	

**CHAIN OF CUSTODY**

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First	<u>[Signature]</u>	<u>Medeiros</u>		<u>8/16/23 4:35pm</u>
Second	<u>[Signature]</u>	<u>DLI</u>	<u>8/16/23 4:35pm</u>	<u>8/16/23</u>
Third	<u>MM</u>	<u>DLI</u>	<u>8/17/23 8:30</u>	
Fourth				

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

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

**Invoicing Information:****Medeiros Pricing 2023**

Sampling Hrs \_\_\_\_\_ Miles \_\_\_\_\_ Consulting \_\_\_\_\_

Amt Paid \_\_\_\_\_ Rec By \_\_\_\_\_ Check No. \_\_\_\_\_

**Shipping**

\$ \_\_\_\_\_ In

\$ \_\_\_\_\_ Out

Date \_\_\_\_\_

Signature \_\_\_\_\_

Sample received in cooler with ice?

[ ] Yes [ ] No

ett:update 2020

IR Thermometer SN: 200560723  
Correction Factor: 0°C  
Calibration Due: 9/26/2023  
Location: Laboratory



08/17/23 08:30

23H1584



AIV

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