

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: 02/01/1982

Regional 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 D

Telephone 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 D

Telephone no.: (559) 866-5308 (559) 977-1889

Landline Cellular

12877 Kamm AVE

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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: HolsteinAverage milk production: 70 pounds per cow per day**B. MANURE GENERATED**Total manure excreted by the herd: 126,061.79 tons per reporting periodTotal nitrogen from manure: 1,554,223.33 lbs per reporting periodAfter ammonia losses (30% loss applied): 1,087,956.33 lbs per reporting periodTotal phosphorus from manure: 251,314.04 lbs per reporting periodTotal potassium from manure: 641,555.91 lbs per reporting periodTotal salt from manure: 1,669,327.50 lbs per reporting period**C. PROCESS WASTEWATER GENERATED**Process wastewater generated: 63,281,000 gallonsTotal nitrogen generated: 193,236.24 lbsTotal phosphorus generated: 24,450.36 lbsTotal potassium generated: 136,706.42 lbsTotal salt generated: 981,064.57 lbs

<u>63,281,000 gallons applied</u>	
+	<u>0 gallons exported</u>
-	<u>0 gallons imported</u>
=	<u>63,281,000 gallons generated</u>

D. FRESH WATER SOURCES

Source Description	Type
Canal	Surface water
D1 & D2	Ground water

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E. SUBSURFACE (TILE) DRAINAGE SOURCES

No subsurface (tile) drainage sources entered.

F. NUTRIENT IMPORTS

No dry manure nutrient imports entered.

No process wastewater nutrient imports entered.

No commercial or other nutrient imports entered.

G. NUTRIENT EXPORTS

Date	Material type	Quantity	Reporting basis	Moisture (%)	Density (lbs/cu ft)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
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 <i>ton</i>	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 <i>ton</i>	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 <i>ton</i>	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 ton	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 ton	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 ton	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 gal
Application event totals		294.90	35.61	217.03	1,200.44	
03/15/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	17.61	10,552,000.00 gal
Application event totals		0.00	0.00	0.00	17.61	
04/08/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	17.61	10,552,000.00 gal
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 gal
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 gal
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 gal
Canal	Surface water	0.00	0.00	0.00	19.23	11,520,000.00 gal
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 gal
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 gal
Canal	Surface water	0.00	0.00	0.00	16.34	9,792,000.00 gal
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 gal
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 gal
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 gal
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 gal
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 gal
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 gal
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 gal
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 gal
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 gal
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 gal
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 gal
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 gal
Canal	Surface water	0.00	0.00	0.00	18.54	8,640,000.00 gal
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 gal
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:	<u>Wheat, silage, boot stage</u>	Plant date: <u>11/01/2022</u>				
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 gal
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 gal
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 gal
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 gal
Application event totals		0.00	0.00	0.00	19.13	
06/06/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	19.13	7,640,000.00 gal
Application event totals		0.00	0.00	0.00	19.13	
06/19/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	131.99	16.17	101.01	738.53	2,500,000.00 gal
Canal	Surface water	0.00	0.00	0.00	19.13	7,640,000.00 gal
Application event totals		131.99	16.17	101.01	757.66	
06/28/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	19.13	7,640,000.00 gal
Application event totals		0.00	0.00	0.00	19.13	
07/08/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	19.13	7,640,000.00 gal
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 gal
Canal	Surface water	0.00	0.00	0.00	19.13	7,640,000.00 gal
Application event totals		131.99	16.17	101.01	757.66	
07/28/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	19.13	7,640,000.00 gal
Application event totals		0.00	0.00	0.00	19.13	
08/07/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	19.13	7,640,000.00 gal
Application event totals		0.00	0.00	0.00	19.13	
08/15/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	19.13	7,640,000.00 gal
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 gal
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 gal
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 gal
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 gal
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 gal
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 gal
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 gal
Canal	Surface water	0.00	0.00	0.00	23.60	8,640,000.00 gal
Application event totals		107.13	13.12	81.98	623.02	
08/08/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	108.29	14.68	68.30	609.86	1,860,000.00 gal
Canal	Surface water	0.00	0.00	0.00	23.60	8,640,000.00 gal
Application event totals		108.29	14.68	68.30	633.46	
08/19/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	23.60	8,640,000.00 gal
Application event totals		0.00	0.00	0.00	23.60	
08/26/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	23.60	8,640,000.00 gal
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 gal
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 gal
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 gal
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 gal
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 gal
Canal	Surface water	0.00	0.00	0.00	24.54	8,984,000.00 gal
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 gal
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 gal
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 gal
Canal	Surface water	0.00	0.00	0.00	27.27	9,984,000.00 gal
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 gal
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 gal
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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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 gal
Canal	Surface water	0.00	0.00	0.00	11.49	6,120,000.00 gal
Application event totals		196.90	23.78	144.91	813.02	
03/09/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	90.66	10.95	66.72	369.05	2,560,000.00 gal
Canal	Surface water	0.00	0.00	0.00	11.49	6,120,000.00 gal
Application event totals		90.66	10.95	66.72	380.54	
03/22/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	90.66	10.95	66.72	369.05	2,560,000.00 gal
Application event totals		90.66	10.95	66.72	369.05	

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

Field name:	20-1	Plant date:	06/01/2023	
Crop:	Corn, silage			
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)
Canal	Surface water	0.00	0.00	0.00
Application event totals		0.00	0.00	0.00

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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 gal
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 gal
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 gal
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 gal
Canal	Surface water	0.00	0.00	0.00	15.25	8,120,000.00 gal
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 gal
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 gal
Canal	Surface water	0.00	0.00	0.00	22.31	11,880,000.00 gal
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 gal
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 gal
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 gal
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 gal
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 gal
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 gal
Application event totals		0.00	0.00	0.00	17.30	
05/29/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	18.70	3,112,000.00 gal
Application event totals		0.00	0.00	0.00	18.70	
06/11/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	17.30	2,880,000.00 gal
Application event totals		0.00	0.00	0.00	17.30	
06/21/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	18.70	3,112,000.00 gal
Application event totals		0.00	0.00	0.00	18.70	
06/30/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	18.70	3,112,000.00 gal
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 gal
Canal	Surface water	0.00	0.00	0.00	17.30	2,880,000.00 gal
Application event totals		107.70	13.19	82.42	619.95	
07/19/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	18.70	3,112,000.00 gal
Application event totals		0.00	0.00	0.00	18.70	
07/28/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	108.87	14.76	68.67	613.14	850,000.00 gal
Canal	Surface water	0.00	0.00	0.00	12.69	2,112,000.00 gal
Application event totals		108.87	14.76	68.67	625.83	
08/05/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	17.30	2,880,000.00 gal
Application event totals		0.00	0.00	0.00	17.30	
08/10/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	18.70	3,112,000.00 gal
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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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 gal
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 gal
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 gal
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 gal
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 gal
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 gal
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 gal
Canal	Surface water	0.00	0.00	0.00	15.60	3,116,000.00 gal
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 gal
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 gal
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 gal
Canal	Surface water	0.00	0.00	0.00	15.60	3,116,000.00 gal
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 gal
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 gal
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 gal
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 gal
Application event totals		0.00	0.00	0.00	15.60	

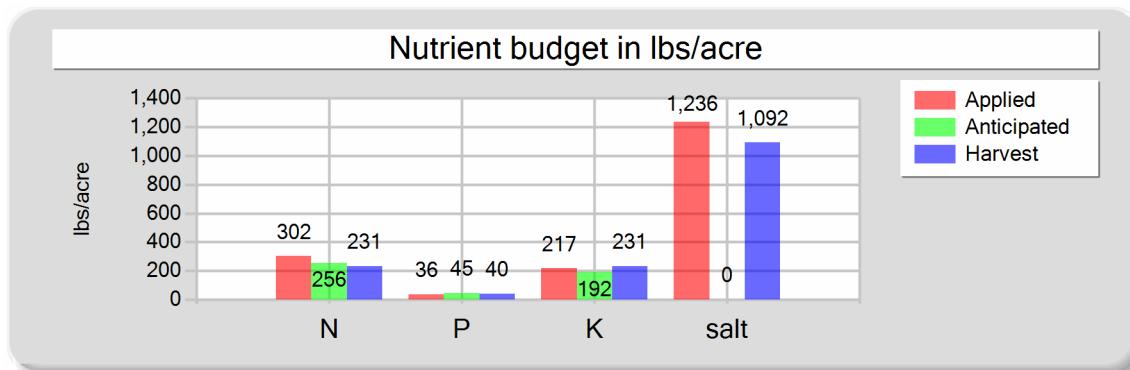
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B. NUTRIENT BUDGET

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)
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	294.90	35.61	217.03	1,200.44
Fresh water	0.00	0.00	0.00	35.22
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	301.90	35.61	217.03	1,235.66
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
Nutrient balance	70.79	-4.34	-14.08	143.84
Applied to removed ratio	1.31	0.89	0.94	1.13

Fresh water applied
21,104,000.00 gallons
777.19 acre-inches
8.64 inches/acre
Process wastewater applied
9,368,000.00 gallons
344.99 acre-inches
3.83 inches/acre
Total harvests for the crop
1 harvests

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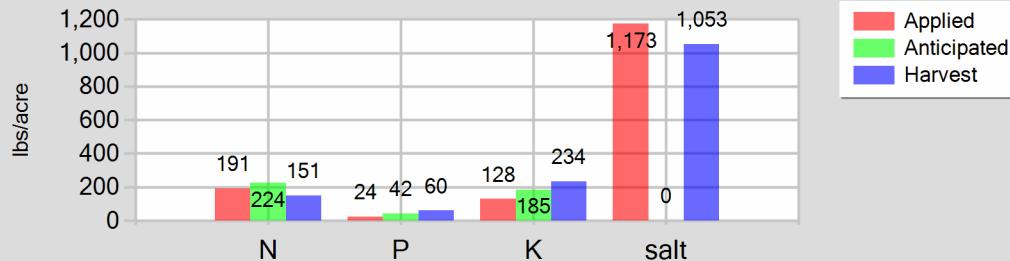
13-15 - 06/01/2023: Corn, silage

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)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	84,006,000.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	3,093.66 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	34.37 inches/acre
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	184.01	23.75	128.38	1,033.02	Process wastewater applied
Fresh water	0.00	0.00	0.00	140.21	5,200,000.00 gallons
Atmospheric deposition	7.00	0.00	0.00	0.00	191.50 acre-inches
Total nutrients applied	191.01	23.75	128.38	1,173.22	2.13 inches/acre
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	Total harvests for the crop
Nutrient balance	39.91	-36.12	-105.40	119.76	1 harvests
Applied to removed ratio	1.26	0.40	0.55	1.11	

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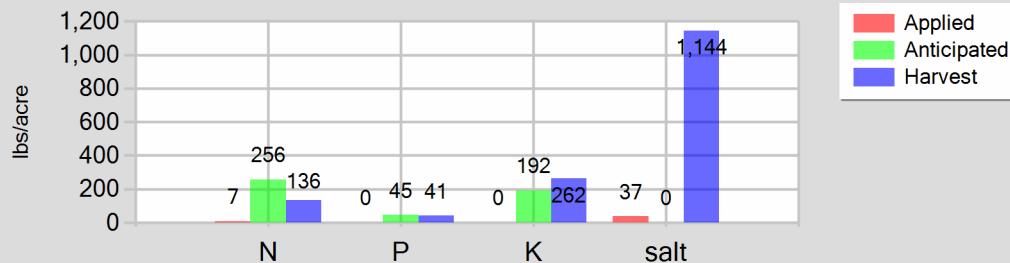
16-7 - 11/01/2022: Wheat, silage, boot stage

Field name: 16-7

Crop: Wheat, silage, boot stage

Plant date: 11/01/2022

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	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

Fresh water applied

17,280,000.00 *gallons*
636.36 *acre-inches*
9.09 *inches/acre*

Process wastewater applied

0.00 *gallons*
0.00 *acre-inches*
0.00 *inches/acre*

Total harvests for the crop

1 *harvests*

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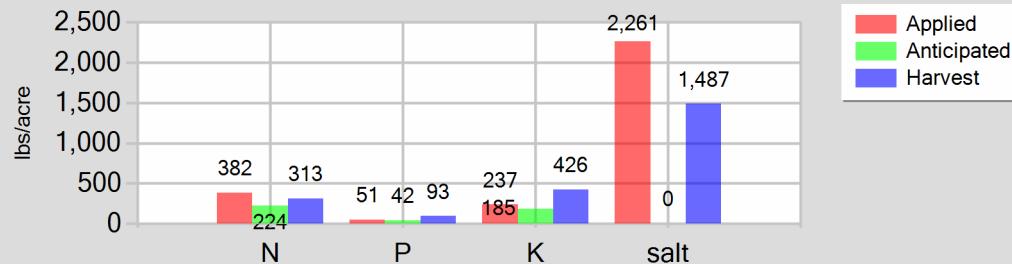
16-7 - 06/01/2023: Corn, silage

Field name: 16-7

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	375.09	50.86	236.60	2,112.50
Fresh water	0.00	0.00	0.00	148.32
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	382.09	50.86	236.60	2,260.82
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
Nutrient balance	68.88	-41.78	-189.10	774.20
Applied to removed ratio	1.22	0.55	0.56	1.52

Fresh water applied

69,120,000.00 gallons
2,545.45 acre-inches
36.36 inches/acre

Process wastewater applied

8,200,000.00 gallons
301.98 acre-inches
4.31 inches/acre

Total harvests for the crop

1 harvests

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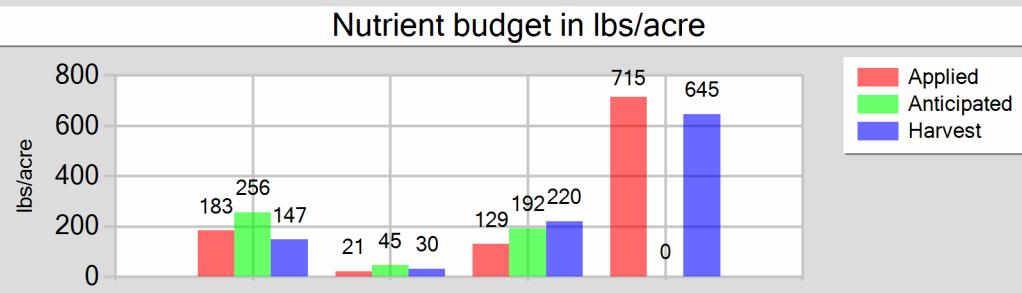
Reporting period 01/01/2023 to 12/31/2023.

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 gallons 0.00 acre-inches 0.00 inches/acre
Plowdown credit	0.00	0.00	0.00	0.00	
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	175.65	21.21	129.27	715.03	Process wastewater applied 3,720,000.00 gallons 136.99 acre-inches 2.28 inches/acre
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	Total harvests for the crop 1 harvests

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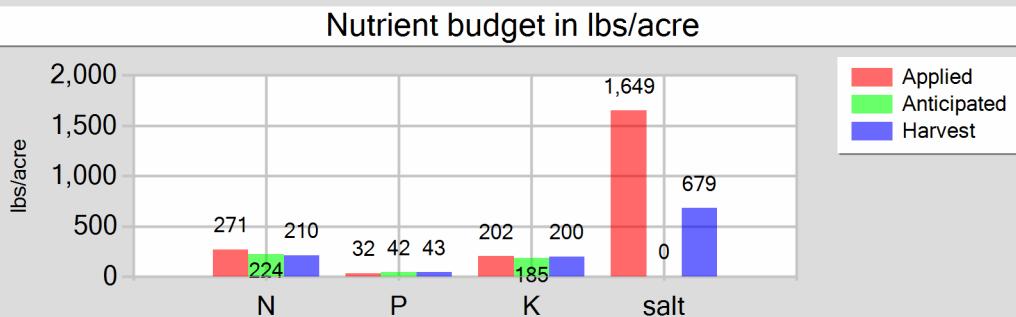
Reporting period 01/01/2023 to 12/31/2023.

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

Field name: 17-2

Crop: Corn, silage

Plant date: 06/01/2023



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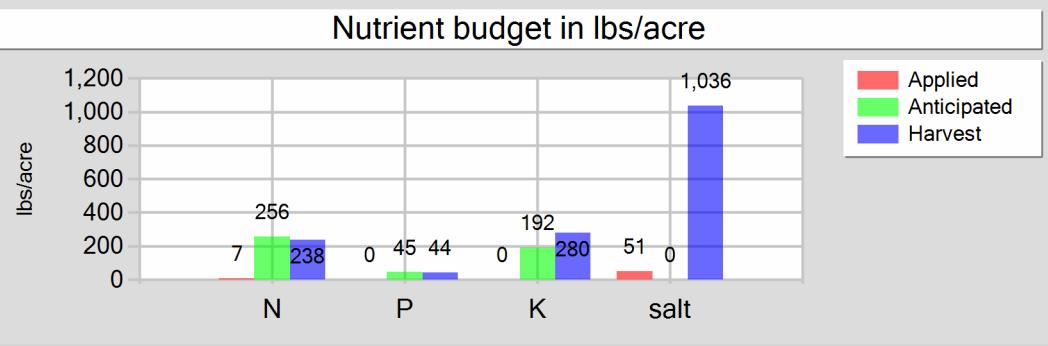
Reporting period 01/01/2023 to 12/31/2023.

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)
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	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

Fresh water applied

18,792,000.00 gallons
692.05 acre-inches
12.58 inches/acre

Process wastewater applied

0.00 gallons
0.00 acre-inches
0.00 inches/acre

Total harvests for the crop

1 harvests

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

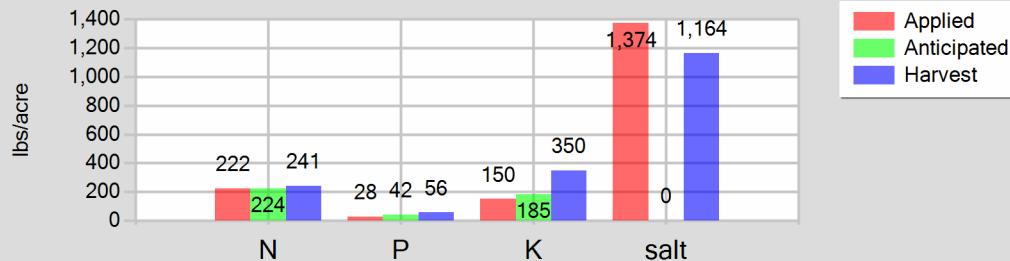
19-5 - 06/01/2023: Corn, silage

Field name: 19-5

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	215.41	27.81	150.29	1,209.28
Fresh water	0.00	0.00	0.00	165.18
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	222.41	27.81	150.29	1,374.46
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
Nutrient balance	-18.32	-28.37	-199.59	210.89
Applied to removed ratio	0.92	0.50	0.43	1.18

Fresh water applied

60,480,000.00 gallons
2,227.27 acre-inches
40.50 inches/acre

Process wastewater applied

3,720,000.00 gallons
136.99 acre-inches
2.49 inches/acre

Total harvests for the crop

1 harvests

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

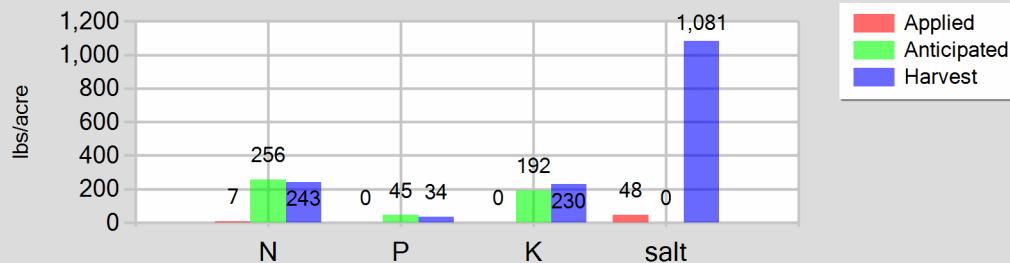
19-6 - 11/01/2022: Wheat, silage, boot stage

Field name: 19-6

Crop: Wheat, silage, boot stage

Plant date: 11/01/2022

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	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 gallons
645.64 acre-inches
11.74 inches/acre

Process wastewater applied

0.00 gallons
0.00 acre-inches
0.00 inches/acre

Total harvests for the crop

1 harvests

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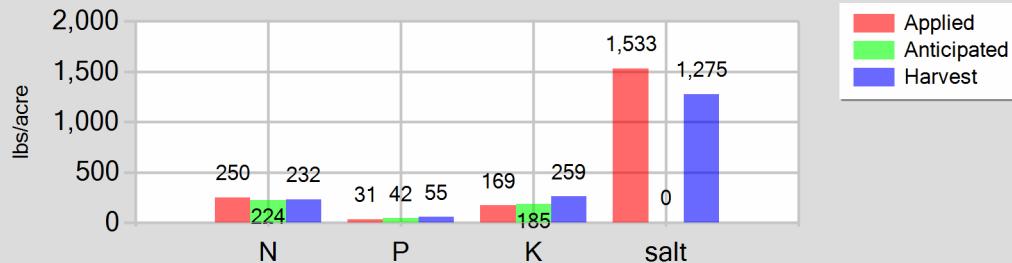
19-6 - 06/01/2023: Corn, silage

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

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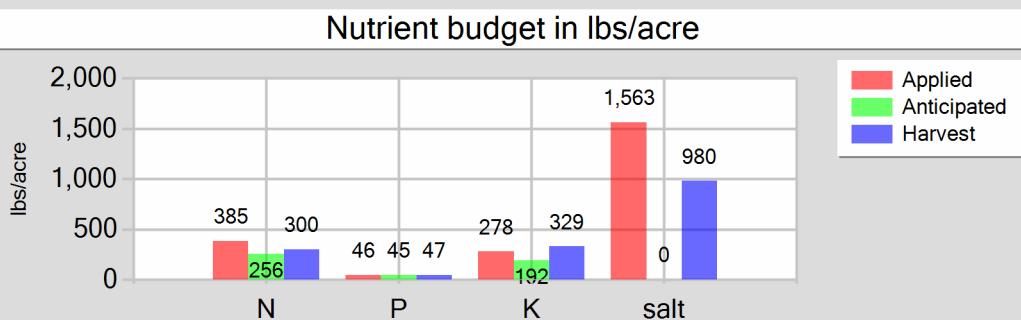
Reporting period 01/01/2023 to 12/31/2023.

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)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	12,240,000.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	450.76 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	5.63 inches/acre
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	378.22	45.68	278.35	1,539.63	Process wastewater applied
Fresh water	0.00	0.00	0.00	22.98	10,680,000.00 gallons
Atmospheric deposition	7.00	0.00	0.00	0.00	393.31 acre-inches
Total nutrients applied	385.22	45.68	278.35	1,562.61	4.92 inches/acre
Anticipated crop nutrient removal	256.00	44.80	192.00	0.00	Total harvests for the crop
Actual crop nutrient removal	300.45	47.23	328.59	979.73	1 harvests
Nutrient balance	84.77	-1.55	-50.24	582.88	
Applied to removed ratio	1.28	0.97	0.85	1.59	

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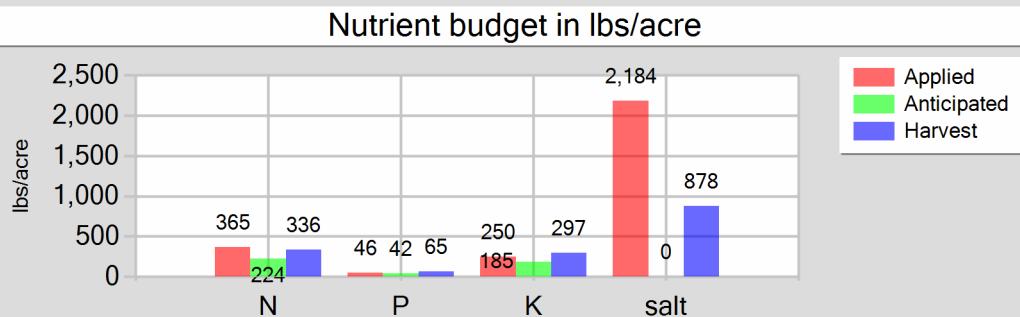
Reporting period 01/01/2023 to 12/31/2023.

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)
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	358.30	46.25	249.97	2,011.41
Fresh water	0.00	0.00	0.00	172.40
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	365.30	46.25	249.97	2,183.81
Anticipated crop nutrient removal	224.00	42.00	184.80	0.00
Actual crop nutrient removal	336.36	65.31	297.17	878.44
Nutrient balance	28.94	-19.06	-47.20	1,305.36
Applied to removed ratio	1.09	0.71	0.84	2.49

Fresh water applied

91,820,000.00 gallons
3,381.42 acre-inches
42.27 inches/acre

Process wastewater applied

9,000,000.00 gallons
331.44 acre-inches
4.14 inches/acre

Total harvests for the crop

1 harvests

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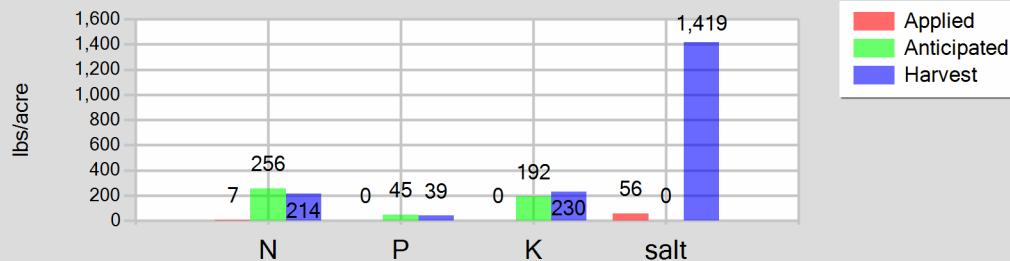
21-5N - 11/01/2022: Wheat, silage, soft dough

Field name: 21-5N

Crop: Wheat, silage, soft dough

Plant date: 11/01/2022

Nutrient budget in lbs/acre



	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 gallons
Plowdown credit	0.00	0.00	0.00	0.00	342.05 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	13.68 inches/acre
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	0.00	0.00	0.00	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	
Total harvests for the crop					
1 harvests					

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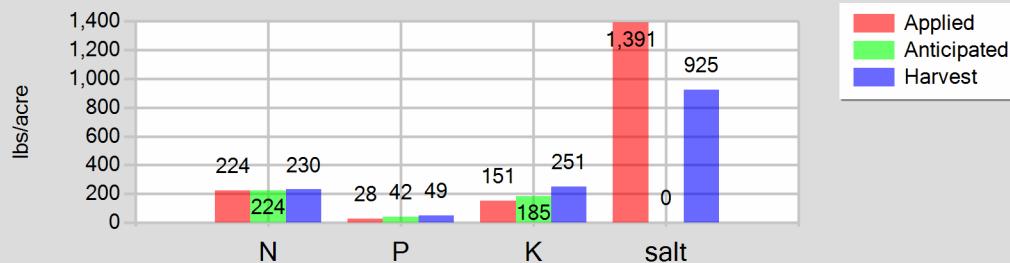
21-5N - 06/01/2023: Corn, silage

Field name: 21-5N

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	216.57	27.96	151.09	1,215.78
Fresh water	0.00	0.00	0.00	175.40
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	223.57	27.96	151.09	1,391.18
Anticipated crop nutrient removal	224.00	42.00	184.80	0.00
Actual crop nutrient removal	230.17	49.42	251.35	924.92
Nutrient balance	-6.60	-21.47	-100.26	466.26
Applied to removed ratio	0.97	0.57	0.60	1.50

Fresh water applied

29,192,000.00 gallons
1,075.04 acre-inches
43.00 inches/acre

Process wastewater applied

1,700,000.00 gallons
62.61 acre-inches
2.50 inches/acre

Total harvests for the crop

1 harvests

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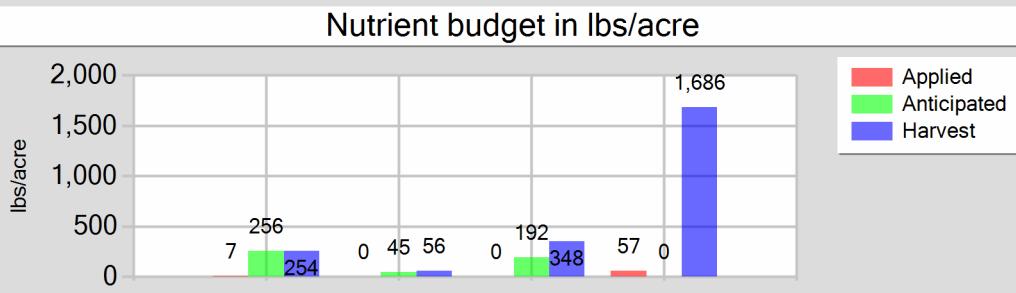
Reporting period 01/01/2023 to 12/31/2023.

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 gallons
Plowdown credit	0.00	0.00	0.00	0.00	421.59 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	14.05 inches/acre
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	0.00	0.00	0.00	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	
Total harvests for the crop					
1 harvests					

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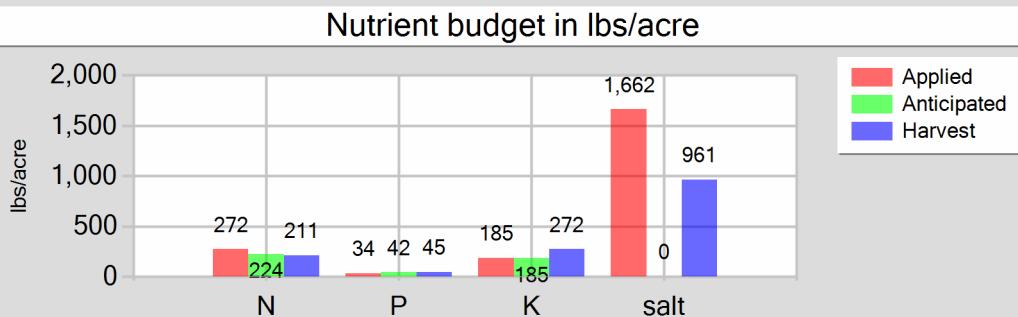
Reporting period 01/01/2023 to 12/31/2023.

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 gallons
Plowdown credit	0.00	0.00	0.00	0.00	1,262.27 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	42.08 inches/acre
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 gallons
Atmospheric deposition	7.00	0.00	0.00	0.00	92.07 acre-inches
Total nutrients applied	272.41	34.26	185.17	1,661.55	3.07 inches/acre
Anticipated crop nutrient removal	224.00	42.00	184.80	0.00	Total harvests for the crop
Actual crop nutrient removal	210.69	45.38	272.27	961.06	1 harvests
Nutrient balance	61.72	-11.12	-87.11	700.49	
Applied to removed ratio	1.29	0.75	0.68	1.73	

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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

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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)
Value	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
DL	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)
Value	383.70	150.12	0.00	0.00	52.03	242.03								3,377.00	2,161
DL	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)
Value	429.70	131.60	0.00	0.00	43.36	190.03								2,557.00	1,638
DL	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: CanalSample 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 (μ mhos/cm)	TDS (mg/L)
Value	0.00										30.00	
DL	0.10										1.00	

D1 & D2**D1 & D2**Sample description: D1 & D2Sample 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 (μ mhos/cm)	TDS (mg/L)
Value	0.00										240.00	
DL	0.10										1.00	

D. SOIL ANALYSES

No soil analyses entered.

E. PLANT TISSUE ANALYSES

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

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

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

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

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

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 (%)
Value	14,200.00	4,200.00	19,300.00		6.74
DL	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 (%)
Value	16,600.00	3,400.00	24,900.00		7.29
DL	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 (%)
Value	16,700.00	3,400.00	15,900.00		5.40
DL	100.00	100.00	100.00		1.00

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

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

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 (%)
Value	26,800.00	4,900.00	31,500.00		11.67
DL	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 (%)
Value	15,000.00	3,500.00	21,800.00		7.25
DL	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 (%)
Value	18,700.00	2,600.00	17,700.00		8.33
DL	100.00	100.00	100.00		1.00

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

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

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

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

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 (%)
Value	17,600.00	3,200.00	18,900.00		11.65
DL	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 (%)
Value	16,300.00	3,500.00	17,800.00		6.55
DL	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 (%)
Value	14,400.00	3,200.00	19,700.00		9.55
DL	100.00	100.00	100.00		1.00

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

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

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

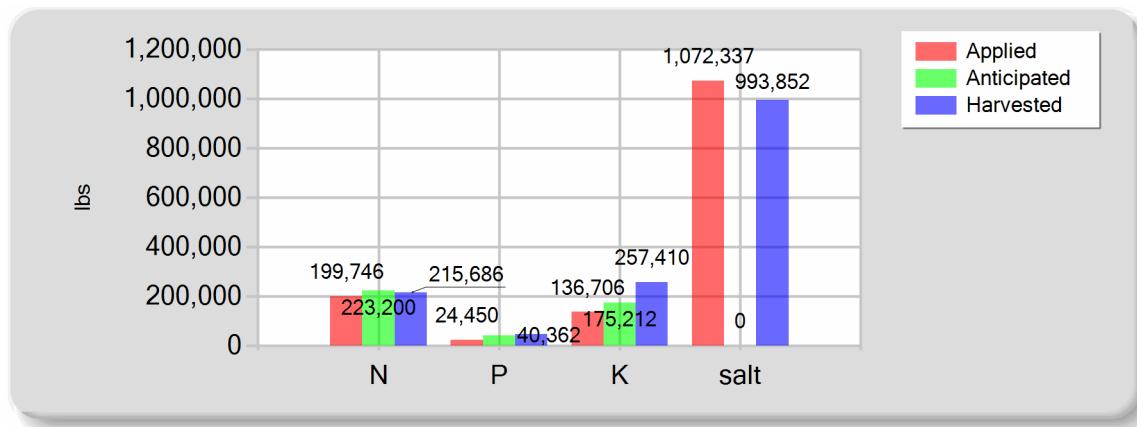
No subsurface (tile) drainage analyses entered.

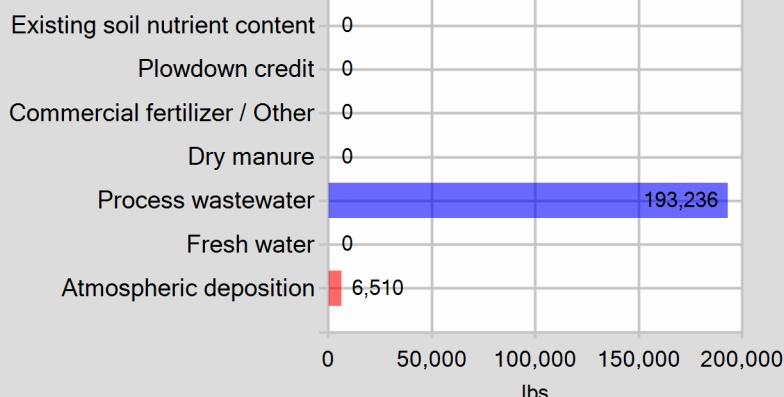
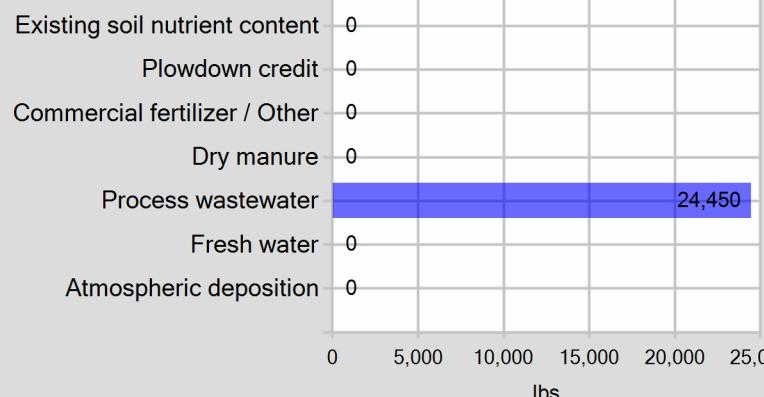
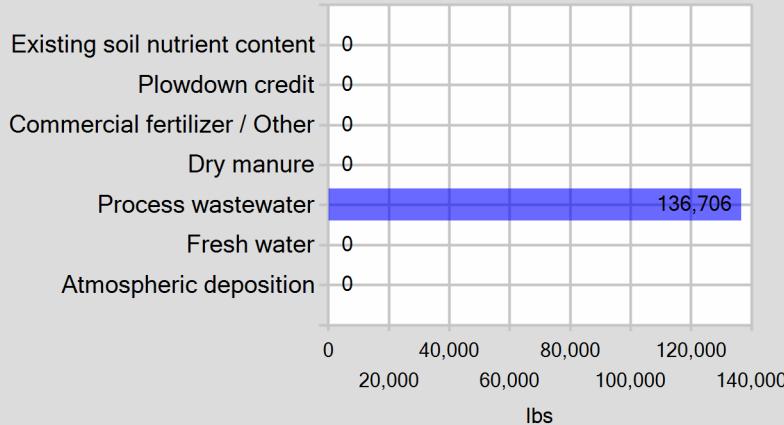
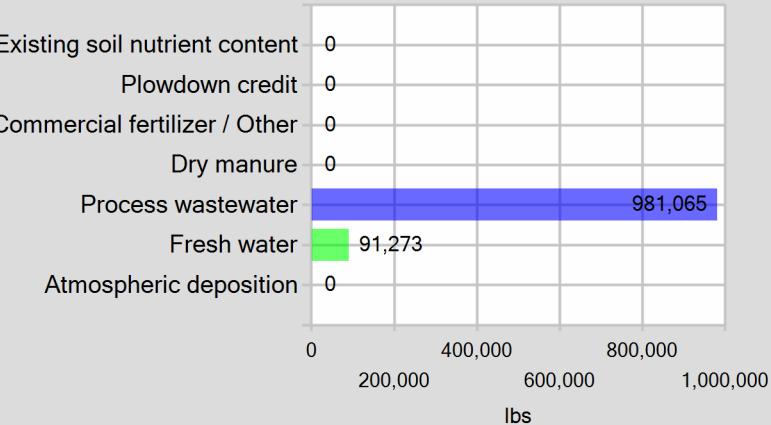
Annual Report - General Order No. R5-2007-0035

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.

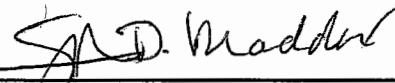
Annual Report - General Order No. R5-2007-0035

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

Stephen D Maddox

PRINT OR TYPE NAME

6-28-2024

DATE

SIGNATURE OF OPERATOR OF FACILITY

SAME AS OWNER

PRINT OR TYPE NAME

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 INFORMATIONName of Operator: Steve MaddoxName 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:	<u>Steve Maddox</u> Name	(559) 259-9176 Phone Number
---------------------------------------	-----------------------------	--------------------------------

MANURE HAULER INFORMATIONName of Hauling Company/Person: Thomas Bros Spreading

Address of Hauling Company/Person:

19721 Exceslisor Number and Street	Riverdale City	CA State	93656 Zip Code
---------------------------------------	-------------------	-------------	-------------------

Contact Person:	<u>Manuel Thomas</u> Name	(559) 906-1406 Phone Number
-----------------	------------------------------	--------------------------------

DESTINATION INFORMATIONComposting 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

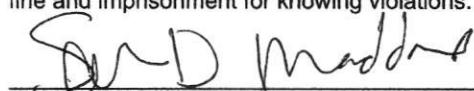
Manure Solids Content: 71.0 %

Method used to determine amount of manure:

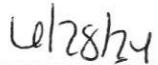
Weighted Average

CERTIFICATION

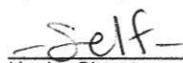
I declare under penalty of law that I personally examined and am familiar with the information submitted in this document, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware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



Operator Signature



Date



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

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: 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
Electrical Conductivity	0.24	mmhos/cm	0.01	1		12/13/23 15:48	SM 2510 B		BEL0495
Electrical Conductivity umhos	240	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
Temperature	25.0	units	0.0	1		12/13/23 15:48	SM 4500-H+	H	BEL0495
pH	9.3	units	1.0	1		12/13/23 15:48	SM 4500-H+	H	BEL0495

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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

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

Reference (BEL0447-SRM3)	9.8	mg/L	10.00	98.2	90-110	Prepared: 12/13/2023 Analyzed: 12/14/2023
Reference (BEL0447-SRM4)	9.6	mg/L	10.00	95.5	90-110	Prepared: 12/13/2023 Analyzed: 12/14/2023

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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	Limits	RPD	RPD Limit
Batch: BEL0495									
Blank (BEL0495-BLK1)									
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						
Blank (BEL0495-BLK2)									
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						
Blank (BEL0495-BLK3)									
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						
Duplicate (BEL0495-DUP1)									
		Source: 23L0649-07							
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
Duplicate (BEL0495-DUP2)									
		Source: 23L0666-01							
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
Reference (BEL0495-SRM1)									
Electrical Conductivity	445		umhos/cm		426.0	104	90-110		
Reference (BEL0495-SRM2)									
pH	7.5		units		7.520	100	67021-101.3%		
Reference (BEL0495-SRM3)									
Electrical Conductivity	1070		umhos/cm		1000	107	90-110		
Electrical Conductivity umhos	1070		umhos/cm		1000	107	90-110		
Reference (BEL0495-SRM4)									
Electrical Conductivity	1060		umhos/cm		1000	106	90-110		
Electrical Conductivity umhos	1060		umhos/cm		1000	106	90-110		
Reference (BEL0495-SRM5)									
Electrical Conductivity	1070		umhos/cm		1000	107	90-110		

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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	Limits	RPD	RPD Limit
Batch: BEL0495 (Continued)									
Reference (BEL0495-SRM5)									
Electrical Conductivity umhos	1070		umhos/cm	1000	107	Prepared & Analyzed: 12/13/2023	90-110		
Reference (BEL0495-SRM6)									
pH	4.0		units	4.000	100	Prepared & Analyzed: 12/13/2023	97.5-102.5		
Reference (BEL0495-SRM7)									
pH	4.0		units	4.000	101	Prepared & Analyzed: 12/13/2023	97.5-102.5		
Reference (BEL0495-SRM8)									
pH	4.0		units	4.000	100	Prepared & Analyzed: 12/13/2023	97.5-102.5		

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12/13/23 07:00

23L0661

Shipping Information: Shipped In <input type="checkbox"/> Picked-Up <input type="checkbox"/> Walk In <input type="checkbox"/> DLI Sampler <input type="checkbox"/> Other _____										
<input type="checkbox"/> Samples refrigerated 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 type="checkbox"/> Blue Ice <input type="checkbox"/> None <input type="checkbox"/>					
Samples Preserved with HNO ₃ or H ₂ SO ₄ 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
Sample Containers for Internal (DLI) Use (Containers that go into the Lab)										
Plastics	100 mL sterile plastic Na ₂ S ₂ O ₃ (Green)									
	250 mL unpreserved (White) Plastic									
	250 mL HNO ₃ (Red) Plastic									
	* pH Value									
	250 mL H ₂ SO ₄ (Yellow) Plastic									
	* pH Value									
	500 mL unpreserved (White) Plastic									
	1 L unpreserved (White) Plastic									
Special	1 L unpreserved (BOD) (Purple) Plastic									
	500mL unpreserved (White) Glass									
	PO4-P Kit									
Other:										
Sample Containers for Subcontracted ("Send Out") Analyses (Containers that go in the Subcontract ("Send Out") Refrigerator)										
Plastics	100 mL sterile plastic Na ₂ S ₂ O ₃ (Green)									
	250 mL unpreserved (White) Plastic									
	250 mL HNO ₃ (Red) Plastic									
	250 mL H ₂ SO ₄ (Yellow) Plastic									
	500 mL HNO ₃ (Red)									
	1 L unpreserved (White) Plastic									
	1 L unpreserved (BOD) (Purple) Plastic									
	1 L HNO ₃ (Red)									
VOA Vials	40 mL VOA, Na ₂ S ₂ O ₃ + MCAA (EPA531)									
	40 mL VOA, Na ₂ S ₂ O ₃ (EPA547)									
	40mL AG VOA unpreserved (White) (Set of 3)									
	40 mL AG VOA, Na ₂ S ₂ O ₃ (Green) (Set of 3)									
	40mL VOA, H ₃ PO ₄ (Set of 3)									
	40 mL VOA, HCl (Blue) (Set of 3)									
Glass	40 mL VOA, Na ₂ S ₂ O ₃ (Green) (Set of 3)									
	250 mL AG unpreserved (White)									
	250 mL AG H ₂ SO ₄ (Yellow)									
	250 mL AG Na ₂ S ₂ O ₃ (Green)									
	250 mL AG Na ₂ S ₂ O ₃ + MCAA									
	500 mL glass unpreserved (White)									
	500 mL AG HCl (Blue)									
	1 L AG unpreserved (White)									
	1 L AG H ₂ SO ₄ (Yellow)									
	1 L AG Na ₂ S ₂ O ₃ (Green)									
Special	1 L AG HCl (Blue)									
	Cr ⁶⁺ - 50mL Plastic w/Borate/HCO ₃ /CO ₃									
	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

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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
Electrical Conductivity	0.03	mmhos/cm	0.01	1		08/18/23 17:15	SM 2510 B		BEH0918
Nitrate Nitrogen as NO ₃ N	ND	mg/L	0.1	1	10	08/17/23 21:52	EPA 300.0		BEH0886

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Quality Control

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

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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	Limits	RPD	RPD Limit
Batch: BEH0918									
Blank (BEH0918-BLK1)									
Electrical Conductivity	ND		0.01	mmhos/cm	Prepared: 8/17/2023 Analyzed: 8/18/2023				
Blank (BEH0918-BLK2)									
Electrical Conductivity	ND		0.01	mmhos/cm	Prepared: 8/17/2023 Analyzed: 8/18/2023				
Blank (BEH0918-BLK3)									
Electrical Conductivity	ND		0.01	mmhos/cm	Prepared: 8/17/2023 Analyzed: 8/18/2023				
Duplicate (BEH0918-DUP1)									
Electrical Conductivity	0.02		0.01	mmhos/cm	Source: 23H1497-03	Prepared: 8/17/2023 Analyzed: 8/18/2023	0.02	9.30	10
Duplicate (BEH0918-DUP2)									
Electrical Conductivity	0.02		0.01	mmhos/cm	Source: 23H1590-01	Prepared: 8/17/2023 Analyzed: 8/18/2023	0.02	0.00	10
Reference (BEH0918-SRM1)									
Electrical Conductivity	511			umhos/cm	538.0	Prepared: 8/17/2023 Analyzed: 8/18/2023	94.9	90-110	
Reference (BEH0918-SRM3)									
Electrical Conductivity	956			umhos/cm	1000	Prepared: 8/17/2023 Analyzed: 8/18/2023	95.6	90-110	
Reference (BEH0918-SRM4)									
Electrical Conductivity	956			umhos/cm	1000	Prepared: 8/17/2023 Analyzed: 8/18/2023	95.6	90-110	
Reference (BEH0918-SRM5)									
Electrical Conductivity	971			umhos/cm	1000	Prepared: 8/17/2023 Analyzed: 8/18/2023	97.1	90-110	

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PLV

Shipping Information: 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					
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 ₃ or H ₂ SO ₄ 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
Sample Containers for Internal (DLI) Use (Containers that go into the Lab)										
Plastics	100 mL sterile plastic Na ₂ S ₂ O ₃ (Green)									
	250 mL unpreserved (White) Plastic									
	250 mL HNO ₃ (Red) Plastic									
	* pH Value									
	250 mL H ₂ SO ₄ (Yellow) Plastic									
	* pH Value									
	500 mL unpreserved (White) Plastic									
	1 L unpreserved (White) Plastic	J								
Special	1 L unpreserved (BOD) (Purple) Plastic									
	500mL unpreserved (White) Glass									
	PO4-P Kit									
	Other:									
Sample Containers for Subcontracted ("Send Out") Analyses (Containers that go in the Subcontract ("Send Out") Refrigerator)										
Plastics	100 mL sterile plastic Na ₂ S ₂ O ₃ (Green)									
	250 mL unpreserved (White) Plastic									
	250 mL HNO ₃ (Red) Plastic									
	250 mL H ₂ SO ₄ (Yellow) Plastic									
	500 mL HNO ₃ (Red)									
	1 L unpreserved (White) Plastic									
	1 L unpreserved (BOD) (Purple) Plastic									
	1 L HNO ₃ (Red)									
VOA Vials	40 mL VOA, Na ₂ S ₂ O ₃ + MCAA (EPA531)									
	40 mL VOA, Na ₂ S ₂ O ₃ (EPA547)									
	40mL AG VOA unpreserved (White) (Set of 3)									
	40 mL AG VOA, Na ₂ S ₂ O ₃ (Green) (Set of 3)									
	40mL VOA, H ₃ PO ₄ (Set of 3)									
	40 mL VOA, HCl (Blue) (Set of 3)									
	40 mL VOA, Na ₂ S ₂ O ₃ (Green) (Set of 3)									
	250 mL AG unpreserved (White)									
Glass	250 mL AG H ₂ SO ₄ (Yellow)									
	250 mL AG Na ₂ S ₂ O ₃ (Green)									
	250 mL AG Na ₂ S ₂ O ₃ + MCAA									
	500 mL glass unpreserved (White)									
	500 mL AG HCl (Blue)									
	1 L AG unpreserved (White)									
	1 L AG H ₂ SO ₄ (Yellow)									
	1 L AG Na ₂ S ₂ O ₃ (Green)									
Special	1 L AG HCl (Blue)									
	Cr ⁶⁺ - 50mL Plastic w/Borate/HCO ₃ /CO ₃									
	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:										