

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:** Redtop Jerseys, LP

Physical address of dairy:

21463 Road 4 Number and Street	Chowchilla City	Madera County	93610 Zip Code
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Street and nearest cross street (if no address): _____

Date facility was originally placed in operation: 04/01/2007Regional Water Quality Control Board Basin Plan designation: San Joaquin River Basin

County Assessor Parcel Number(s) for dairy facility:

X020-X130-X013-XXXX

B. OPERATORS

Nyman, Brad

Operator name: <u>Nyman, Brad</u>	Telephone no.: <u>(209) 495-8821</u>
	Landline Cellular
5638 Columbus AVE Mailing Address Number and Street	Hilmar City CA 95324 State Zip Code

Nyman, Lloyd

Operator name: <u>Nyman, Lloyd</u>	Telephone no.: <u>(209) 000-0000</u>
	Landline Cellular
5638 Columbus AVE Mailing Address Number and Street	Hilmar City CA 95324 State Zip Code

Wickstrom, Mike

Operator name: <u>Wickstrom, Mike</u>	Telephone no.: <u>(209) 495-8797</u>
	Landline Cellular
5638 Columbus AVE Mailing Address Number and Street	Hilmar City CA 95324 State Zip Code

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Wickstrom, Scott

Operator name: <u>Wickstrom, Scott</u>	Telephone no.: <u>(209) 652-4975</u>
	Landline Cellular
5638 Columbus AVE Mailing Address Number and Street	Hilmar City CA State Zip Code 95324

C. OWNERS

N & W Land Co. LLC

Legal owner name: <u>N & W Land Co. LLC</u>	Telephone no.: <u>(209) 634-2895</u>
	Landline Cellular
5638 Columbus AVE Mailing Address Number and Street	Hilmar City CA State Zip Code 95324

This owner is responsible for paying permit fees.

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AVAILABLE NUTRIENTS

A. HERD INFORMATION

	Milk Cows	Dry Cows	Bred Heifers (15-24 mo.)	Heifers (7-14 mo. to breeding)	Calves (4-6 mo.)	Calves (0-3 mo.)
Number open confinement	0	0	0	0	0	0
Number under roof	6,000	1,200	0	0	0	0
Maximum number	7,000	1,350	0	0	0	0
Average number	6,000	1,200	0	0	0	0
Avg live weight (lbs)	950	1,000	0	0		

Predominant milk cow breed: Jersey

Average milk production: 58 pounds per cow per day

B. MANURE GENERATED

Total manure excreted by the herd: 160,771.96 tons per reporting period

Total nitrogen from manure: 2,120,799.48 lbs per reporting period

After ammonia losses (30% loss applied): 1,484,559.64 lbs per reporting period

Total phosphorus from manure: 349,260.56 lbs per reporting period

Total potassium from manure: 1,101,751.36 lbs per reporting period

Total salt from manure: 3,101,040.00 lbs per reporting period

C. PROCESS WASTEWATER GENERATED

Process wastewater generated: 109,555,182 gallons

Total nitrogen generated: 317,601.16 lbs

Total phosphorus generated: 26,555.88 lbs

Total potassium generated: 365,000.71 lbs

Total salt generated: 2,558,490.72 lbs

$$\begin{array}{r} 109,555,182 \text{ gallons applied} \\ + 0 \text{ gallons exported} \\ - 0 \text{ gallons imported} \\ = 109,555,182 \text{ gallons generated} \end{array}$$

D. FRESH WATER SOURCES

Source Description	Type
Canal	Surface water
Irrigation Well	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.*

Date	Material type / Description	Quantity	Reporting basis	Moisture (%)	N (%)	P (%)	K (%)	Salt (%)
05/30/2023	Solid commercial fertilizer 30-0-0	31.94 ton	Dry-weight	0.1	30.000000	0.000000	0.000000	0.000000

Material type	Total N (lbs)	Total P (lbs)	Total K (lbs)	Total salt (lbs)
Commercial fertilizer / Other	19,144.84	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
Total imports for all materials	19,144.84	0.00	0.00	0.00

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 (%)
05/01/2023	Separator solids	1,320.00 ton	Dry-weight	72.3		19,000.00	1,900.00	10,100.00		8.69
09/30/2023	Separator solids	1,692.00 ton	Dry-weight	77.0		19,200.00	1,800.00	6,100.00		0.00

No liquid nutrient exports entered.

Material type	Total N (lbs)	Total P (lbs)	Total K (lbs)	Total salt (lbs)
Dry manure	28,838.06	2,790.41	12,133.68	63,548.23
Process wastewater	0.00	0.00	0.00	0.00
Total exports for all materials	28,838.06	2,790.41	12,133.68	63,548.23

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APPLICATION AREA**A. LIST OF LAND APPLICATION AREAS**

Field name	Controlled acres	Cropable acres	Total harvests	Type of waste applied	Parcel number
1	43	43	1	manure	X020-X130-X012-XXXX
11	43	43	2	process wastewater	X020-X130-X012-XXXX
12	44	44	2	process wastewater	X020-X130-X012-XXXX
13	43	43	2	process wastewater	X020-X130-X012-XXXX
14	37	37	2	manure	X020-X130-X012-XXXX
16	43	43	2	process wastewater	X020-X130-X012-XXXX
17	45	45	2	process wastewater	X020-X130-X008-XXXX
18	45	45	1	manure	X020-X130-X008-XXXX
19	44	44	1	manure	X020-X130-X012-XXXX X020-X130-X013-XXXX
2	46	46	1	manure	X020-X130-X012-XXXX
20	38	38	2	process wastewater	X020-X130-X013-XXXX
21	18	18	2	process wastewater	X020-X130-X013-XXXX
3	41	41	1	manure	X020-X130-X012-XXXX
4	42	42	2	process wastewater	X020-X130-X012-XXXX
5	53	53	2	process wastewater	X020-X130-X013-XXXX
6	43	43	2	process wastewater	X020-X130-X012-XXXX
7	45	45	2	process wastewater	X020-X130-X012-XXXX
8	42	42	1	manure	X020-X130-X012-XXXX
9	40	40	2	process wastewater	X020-X130-X012-XXXX
A	36	36	2	both	X020-X160-X014-XXXX
B	36	36	2	both	X020-X160-X014-XXXX
C	37	37	2	process wastewater	X020-X160-X014-XXXX
D	38	38	2	process wastewater	X020-X160-X014-XXXX
E	40	40	2	process wastewater	X020-X160-X014-XXXX
F	28	28	2	process wastewater	X020-X160-X014-XXXX
G	21	21	2	process wastewater	X021-X070-X011-XXXX
Totals for areas that were used for application	1,031	1,031	46		
Totals for areas that were not used for application					
Land application area totals	1,031	1,031	46		

B. CROPS AND HARVESTS

1

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1

Field name: 1

01/01/2023: Alfalfa, hay

Crop: Alfalfa, hay

Acres planted: 43 Plant date: 01/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
12/31/2023	108.97 ton	As-is		9.6	30,100.00	2,600.00	34,500.00		11.50

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	8.00	480.00	43.20	336.00	0.00
Total actual harvest content	2.53	152.56	13.18	174.86	526.91

11

Field name: 11

11/06/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough

Acres planted: 43 Plant date: 11/06/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/06/2023	860.53 ton	As-is		70.0	5,200.00	600.00	4,400.00		10.50

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	176.00	27.20	132.80	0.00
Total actual harvest content	20.01	208.13	24.01	176.11	1,260.78

05/30/2023: Corn, silage

Crop: Corn, silage

Acres planted: 43 Plant date: 05/30/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/19/2023	1,399.52 ton	As-is		66.8	4,500.00	900.00	6,800.00		6.09

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	0.00
Total actual harvest content	32.55	292.92	58.58	442.64	1,316.12

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12Field name: 12

11/05/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 44 Plant date: 11/05/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/24/2023	1,113.70 ton	As-is		70.0	4,300.00	1,000.00	4,800.00		18.70

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	176.00	27.20	132.80	0.00
Total actual harvest content	25.31	217.68	50.62	242.99	2,839.94

06/09/2023: Corn, silage

Crop: Corn, silage Acres planted: 44 Plant date: 06/09/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/27/2023	1,206.04 ton	As-is		66.2	4,000.00	500.00	6,000.00		5.40

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	0.00
Total actual harvest content	27.41	219.28	27.41	328.92	1,000.57

13Field name: 13

11/05/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 43 Plant date: 11/05/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/24/2023	985.54 ton	As-is		70.0	4,300.00	1,000.00	4,800.00		18.70

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	176.00	27.20	132.80	0.00
Total actual harvest content	22.92	197.11	45.84	220.03	2,571.57

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13

06/07/2023: Corn, silage

Crop: Corn, silage Acres planted: 43 Plant date: 06/07/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/27/2023	1,186.20 ton	As-is		66.2	4,000.00	500.00	6,000.00		5.40

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	0.00
Total actual harvest content	27.59	220.69	27.59	331.03	1,007.00

14

Field name: 14

11/21/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 37 Plant date: 11/21/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/24/2023	677.04 ton	As-is		72.0	5,600.00	600.00	7,300.00		11.50

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	176.00	27.20	132.80	0.00
Total actual harvest content	18.30	204.94	21.96	267.16	1,178.42

06/14/2023: Corn, silage

Crop: Corn, silage Acres planted: 37 Plant date: 06/14/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/30/2023	1,051.00 ton	As-is		67.6	4,200.00	700.00	7,600.00		6.09

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	0.00
Total actual harvest content	28.41	238.61	39.77	431.76	1,120.97

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16

Field name: 16

10/31/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 43 Plant date: 10/31/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/09/2023	757.33 ton	As-is		72.0	5,600.00	600.00	7,300.00		11.50

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	176.00	27.20	132.80	0.00
Total actual harvest content	17.61	197.26	21.13	257.14	1,134.23

06/02/2023: Corn, silage

Crop: Corn, silage Acres planted: 43 Plant date: 06/02/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/20/2023	1,348.43 ton	As-is		67.6	4,200.00	700.00	7,600.00		6.09

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	0.00
Total actual harvest content	31.36	263.41	43.90	476.65	1,237.52

17

Field name: 17

10/31/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 45 Plant date: 10/31/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/09/2023	798.85 ton	As-is		72.0	5,600.00	600.00	7,300.00		11.50

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	176.00	27.20	132.80	0.00
Total actual harvest content	17.75	198.82	21.30	259.18	1,143.24

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17

05/27/2023: Corn, silage

Crop: Corn, silage Acres planted: 45 Plant date: 05/27/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/18/2023	1,546.12 ton	As-is		67.6	4,200.00	700.00	7,600.00		6.09
		Yield (tons/acre) Total N (lbs/acre) Total P (lbs/acre) Total K (lbs/acre)				Salt (lbs/acre)			
Anticipated harvest content		30.00 240.00 45.00 198.00				0.00			
Total actual harvest content		34.36 288.61 48.10 522.24				1,355.89			

18

Field name: 18

01/01/2023: Alfalfa, hay

Crop: Alfalfa, hay Acres planted: 45 Plant date: 01/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
12/31/2023	235.45 ton	As-is		10.0	16,500.00	1,000.00	8,400.00		15.70
		Yield (tons/acre) Total N (lbs/acre) Total P (lbs/acre) Total K (lbs/acre)				Salt (lbs/acre)			
Anticipated harvest content		8.00 480.00 43.20 336.00				0.00			
Total actual harvest content		5.23 172.66 10.46 87.90				1,478.63			

19

Field name: 19

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19

01/01/2023: Alfalfa, hay

Crop: Alfalfa, hay Acres planted: 44 Plant date: 01/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
12/31/2023	129.20 ton	As-is		9.6	30,100.00	2,600.00	34,500.00		11.50

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	8.00	480.00	43.20	336.00	0.00
Total actual harvest content	2.94	176.77	15.27	202.61	610.53

2

Field name: 2

01/01/2023: Alfalfa, hay

Crop: Alfalfa, hay Acres planted: 46 Plant date: 01/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
12/31/2023	320.65 ton	As-is		11.2	20,500.00	1,900.00	15,900.00		13.10

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	8.00	480.00	43.20	336.00	0.00
Total actual harvest content	6.97	285.80	26.49	221.67	1,621.76

20

Field name: 20

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20

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

Crop: Wheat, silage, soft dough Acres planted: 38 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 (%)
05/09/2023	717.67 ton	As-is		69.0	5,800.00	800.00	5,600.00		12.10

Yield (tons/acre) Total N (lbs/acre) Total P (lbs/acre) Total K (lbs/acre) Salt (lbs/acre)

Anticipated harvest content	16.00	176.00	27.20	132.80	0.00
Total actual harvest content	18.89	219.08	30.22	211.52	1,416.83

05/31/2023: Corn, silage

Crop: Corn, silage Acres planted: 38 Plant date: 05/31/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/18/2023	1,116.92 ton	As-is		67.6	4,200.00	700.00	7,600.00		6.09

Yield (tons/acre) Total N (lbs/acre) Total P (lbs/acre) Total K (lbs/acre) Salt (lbs/acre)

Anticipated harvest content	30.00	240.00	45.00	198.00	0.00
Total actual harvest content	29.39	246.90	41.15	446.77	1,159.93

21

Field name: 21

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

Crop: Wheat, silage, soft dough Acres planted: 18 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 (%)
05/09/2023	336.60 ton	As-is		69.0	5,800.00	800.00	5,600.00		12.10

Yield (tons/acre) Total N (lbs/acre) Total P (lbs/acre) Total K (lbs/acre) Salt (lbs/acre)

Anticipated harvest content	16.00	176.00	27.20	132.80	0.00
Total actual harvest content	18.70	216.92	29.92	209.44	1,402.87

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21

05/29/2023: Corn, silage

Crop: Corn, silage Acres planted: 18 Plant date: 05/29/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/18/2023	551.06 ton	As-is		67.6	4,200.00	700.00	7,600.00		6.09

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	0.00
Total actual harvest content	30.61	257.16	42.86	465.34	1,208.14

3

Field name: 3

01/01/2023: Alfalfa, hay

Crop: Alfalfa, hay Acres planted: 41 Plant date: 01/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
12/31/2023	277.48 ton	As-is		10.8	20,400.00	1,700.00	13,500.00		12.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	8.00	480.00	43.20	336.00	0.00
Total actual harvest content	6.77	276.13	23.01	182.73	1,448.85

4

Field name: 4

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4

10/30/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 42 Plant date: 10/30/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/05/2023	843.53 ton	As-is		70.0	5,000.00	600.00	5,000.00		10.50

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	176.00	27.20	132.80	0.00
Total actual harvest content	20.08	200.84	24.10	200.84	1,265.30

05/26/2023: Corn, silage

Crop: Corn, silage Acres planted: 42 Plant date: 05/26/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/20/2023	1,451.88 ton	As-is		61.2	3,800.00	1,200.00	9,100.00		6.19

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	0.00
Total actual harvest content	34.57	262.72	82.96	629.15	1,660.48

5

Field name: 5

11/06/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 53 Plant date: 11/06/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/22/2023	1,120.00 ton	As-is		70.0	4,300.00	1,000.00	4,800.00		18.70

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	176.00	27.20	132.80	0.00
Total actual harvest content	21.13	181.74	42.26	202.87	2,371.02

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5

06/12/2023: Corn, silage

Crop: Corn, silage Acres planted: 53 Plant date: 06/12/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/29/2023	1,556.60 ton	As-is		58.2	4,300.00	700.00	7,300.00		5.80

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	0.00
Total actual harvest content	29.37	252.58	41.12	428.80	1,424.08

6

Field name: 6

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

Crop: Wheat, silage, soft dough Acres planted: 43 Plant date: 10/28/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/06/2023	695.73 ton	As-is		70.0	5,000.00	600.00	5,000.00		10.50

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	176.00	27.20	132.80	0.00
Total actual harvest content	16.18	161.80	19.42	161.80	1,019.33

05/31/2023: Corn, silage

Crop: Corn, silage Acres planted: 43 Plant date: 05/31/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/19/2023	1,388.05 ton	As-is		61.2	3,800.00	1,200.00	9,100.00		6.19

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	0.00
Total actual harvest content	32.28	245.33	77.47	587.50	1,550.56

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7

Field name: 7

10/29/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 45 Plant date: 10/29/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/07/2023	756.23 ton	As-is		70.0	5,900.00	600.00	4,900.00		12.30

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	176.00	27.20	132.80	0.00
Total actual harvest content	16.81	198.30	20.17	164.69	1,240.22

06/01/2023: Corn, silage

Crop: Corn, silage Acres planted: 45 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 (%)
09/19/2023	1,593.16 ton	As-is		66.8	4,500.00	900.00	6,800.00		6.09

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	0.00
Total actual harvest content	35.40	318.63	63.73	481.49	1,431.63

8

Field name: 8

01/01/2023: Alfalfa, hay

Crop: Alfalfa, hay Acres planted: 42 Plant date: 01/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
12/31/2023	347.47 ton	As-is		11.5	16,500.00	1,000.00	8,400.00		15.70

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	8.00	480.00	43.20	336.00	0.00
Total actual harvest content	8.27	273.01	16.55	138.99	2,299.01

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9

Field name: 9

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

Crop: Wheat, silage, soft dough Acres planted: 40 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 (%)
05/07/2023	624.61 ton	As-is		70.0	5,900.00	600.00	4,900.00		12.30

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	176.00	27.20	132.80	0.00
Total actual harvest content	15.62	184.26	18.74	153.03	1,152.41

06/01/2023: Corn, silage

Crop: Corn, silage Acres planted: 40 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 (%)
09/20/2023	1,291.44 ton	As-is		66.8	4,500.00	900.00	6,800.00		6.09

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	0.00
Total actual harvest content	32.29	290.57	58.11	439.09	1,305.57

A

Field name: A

11/05/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 36 Plant date: 11/05/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/24/2023	688.68 ton	As-is		70.0	5,100.00	900.00	5,200.00		11.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	176.00	27.20	132.80	0.00
Total actual harvest content	19.13	195.13	34.43	198.95	1,262.58

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A

06/09/2023: Corn, silage

Crop: Corn, silage Acres planted: 36 Plant date: 06/09/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/28/2023	1,135.81 ton	As-is		58.2	4,300.00	700.00	7,300.00		5.80

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	0.00
Total actual harvest content	31.55	271.33	44.17	460.63	1,529.81

B

Field name: B

11/05/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 36 Plant date: 11/05/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/24/2023	747.73 ton	As-is		70.0	5,100.00	900.00	5,200.00		11.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	176.00	27.20	132.80	0.00
Total actual harvest content	20.77	211.86	37.39	216.01	1,370.84

06/07/2023: Corn, silage

Crop: Corn, silage Acres planted: 36 Plant date: 06/07/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/29/2023	981.59 ton	As-is		58.2	4,300.00	700.00	7,300.00		5.80

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	0.00
Total actual harvest content	27.27	234.49	38.17	398.09	1,322.09

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C

Field name: C

11/04/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 37 Plant date: 11/04/2022

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	873.69 ton	As-is		70.0	4,500.00	900.00	5,400.00		11.60

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	176.00	27.20	132.80	0.00
Total actual harvest content	23.61	212.52	42.50	255.02	1,643.48

06/06/2023: Corn, silage

Crop: Corn, silage Acres planted: 37 Plant date: 06/06/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/30/2023	1,056.62 ton	As-is		58.2	4,300.00	700.00	7,300.00		5.80

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	0.00
Total actual harvest content	28.56	245.59	39.98	416.94	1,384.69

D

Field name: D

10/31/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 38 Plant date: 10/31/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/10/2023	819.07 ton	As-is		70.0	5,100.00	800.00	6,100.00		21.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	176.00	27.20	132.80	0.00
Total actual harvest content	21.55	219.86	34.49	262.96	2,715.86

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D

05/28/2023: Corn, silage

Crop: Corn, silage Acres planted: 38 Plant date: 05/28/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/18/2023	1,103.59 ton	As-is		66.0	4,600.00	700.00	7,900.00		6.59

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	0.00
Total actual harvest content	29.04	267.18	40.66	458.86	1,301.42

E

Field name: E

11/04/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 40 Plant date: 11/04/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/09/2023	861.87 ton	As-is		70.0	5,100.00	800.00	6,100.00		21.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	176.00	27.20	132.80	0.00
Total actual harvest content	21.55	219.78	34.47	262.87	2,714.89

05/30/2023: Corn, silage

Crop: Corn, silage Acres planted: 40 Plant date: 05/30/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/19/2023	1,128.26 ton	As-is		66.0	4,600.00	700.00	7,900.00		6.59

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	0.00
Total actual harvest content	28.21	259.50	39.49	445.66	1,263.99

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F

Field name: F

11/05/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 28 Plant date: 11/05/2022

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	571.05 ton	As-is		70.0	5,200.00	1,000.00	6,000.00		13.10

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	176.00	27.20	132.80	0.00
Total actual harvest content	20.39	212.10	40.79	244.74	1,603.02

06/13/2023: Corn, silage

Crop: Corn, silage Acres planted: 28 Plant date: 06/13/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/28/2023	813.05 ton	As-is		66.0	4,600.00	700.00	7,900.00		6.59

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	0.00
Total actual harvest content	29.04	267.15	40.65	458.79	1,301.23

G

Field name: G

11/04/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 21 Plant date: 11/04/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/22/2023	424.45 ton	As-is		70.0	5,200.00	1,000.00	6,000.00		13.10

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	176.00	27.20	132.80	0.00
Total actual harvest content	20.21	210.20	40.42	242.54	1,588.66

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G

06/13/2023: Corn, silage

Crop: Corn, silage Acres planted: 21 Plant date: 06/13/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/28/2023	594.92 ton	As-is		66.0	4,600.00	700.00	7,900.00		6.59

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	0.00
Total actual harvest content	28.33	260.63	39.66	447.61	1,269.50

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NUTRIENT BUDGET

A. LAND APPLICATIONS

1 - 01/01/2023: Alfalfa, hay

Field name: 1

Crop: Alfalfa, hay Plant date: 01/01/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application			Precipitation 24 hours following
03/02/2023	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
Irrigation Well	Ground water	1.65	0.00	0.00	255.34	5,900,000.00 gal
Application event totals		1.65	0.00	0.00	255.34	
03/11/2023	Broadcast/incorporate	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
Solid Manure	Separator solids	189.47	18.95	100.72	866.57	774.00 ton
Application event totals		189.47	18.95	100.72	866.57	
04/03/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Well	Ground water	1.53	0.00	0.00	236.30	5,460,000.00 gal
Application event totals		1.53	0.00	0.00	236.30	
04/26/2023	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
Irrigation Well	Ground water	1.07	0.00	0.00	166.40	3,845,000.00 gal
Canal	Surface water	0.00	0.00	0.00	134.32	3,845,000.00 gal
Application event totals		1.07	0.00	0.00	300.72	
05/09/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Well	Ground water	1.20	0.00	0.00	148.66	3,530,000.00 gal
Canal	Surface water	0.00	0.00	0.00	123.31	3,530,000.00 gal
Application event totals		1.20	0.00	0.00	271.97	

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1 - 01/01/2023: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/22/2023	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
Irrigation Well	Ground water	0.80	0.00	0.00	123.12	2,845,000.00 gal
Canal	Surface water	0.00	0.00	0.00	99.38	2,845,000.00 gal
Application event totals		0.80	0.00	0.00	222.51	
06/02/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Well	Ground water	0.54	0.00	0.00	83.74	1,935,000.00 gal
Canal	Surface water	0.00	0.00	0.00	67.59	1,935,000.00 gal
Application event totals		0.54	0.00	0.00	151.34	
06/24/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Well	Ground water	0.67	0.00	0.00	103.22	2,385,000.00 gal
Canal	Surface water	0.00	0.00	0.00	83.31	2,385,000.00 gal
Application event totals		0.67	0.00	0.00	186.53	
07/09/2023	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
Irrigation Well	Ground water	0.64	0.00	0.00	99.32	2,295,000.00 gal
Canal	Surface water	0.00	0.00	0.00	80.17	2,295,000.00 gal
Application event totals		0.64	0.00	0.00	179.49	

11 - 11/06/2022: Wheat, silage, soft dough

Field name: 11

Crop: Wheat, silage, soft dough

Plant date: 11/06/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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11 - 11/06/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
10/15/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WWS	Process wastewater	99.97	11.79	142.41	806.19	915,000.00 gal
Irrigation Well	Ground water	1.64	0.00	0.00	203.41	4,830,000.00 gal
Irrigation Well	Ground water	18.75	0.00	0.00	606.47	4,830,000.00 gal
Application event totals		120.36	11.79	142.41	1,616.06	
02/24/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WWS	Process wastewater	93.45	11.02	133.11	753.54	855,250.00 gal
Irrigation Well	Ground water	1.83	0.00	0.00	226.57	5,380,000.00 gal
Application event totals		95.27	11.02	133.11	980.11	
04/17/2023	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	132.74	3,800,000.00 gal
Application event totals		0.00	0.00	0.00	132.74	

11 - 05/30/2023: Corn, silage

Field name:	11	Plant date:	05/30/2023			
Crop:	Corn, silage					
Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/18/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WWS	Process wastewater	60.94	3.51	58.16	547.17	844,150.00 gal
Irrigation Well	Ground water	25.15	0.00	0.00	813.65	6,480,000.00 gal
Application event totals		86.09	3.51	58.16	1,360.82	

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11 - 05/30/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/30/2023	Sidedress	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
30-0-0	Solid commercial fertilizer	24.86	0.00	0.00	0.00	
Application event totals		24.86	0.00	0.00	0.00	
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	207.50	5,940,000.00 gal
Application event totals		0.00	0.00	0.00	207.50	
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	165.58	4,740,000.00 gal
Application event totals		0.00	0.00	0.00	165.58	
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
WWS	Process wastewater	53.73	3.09	51.28	482.42	744,255.00 gal
Canal	Surface water	0.00	0.00	0.00	217.28	6,220,000.00 gal
Application event totals		53.73	3.09	51.28	699.70	
07/26/2023	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
WWS	Process wastewater	54.62	3.14	52.12	490.37	756,525.00 gal
Canal	Surface water	0.00	0.00	0.00	114.58	3,280,000.00 gal
Application event totals		54.62	3.14	52.12	604.95	

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11 - 05/30/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
08/03/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WWS	Process wastewater	15.46	1.37	17.30	51.52	632,050.00 gal
Canal	Surface water	0.00	0.00	0.00	145.32	4,160,000.00 gal
Application event totals		15.46	1.37	17.30	196.84	
08/13/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WWS	Process wastewater	17.21	1.53	19.26	57.38	704,000.00 gal
Canal	Surface water	0.00	0.00	0.00	122.96	3,520,000.00 gal
Application event totals		17.21	1.53	19.26	180.35	
08/22/2023	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
WWS	Process wastewater	20.94	1.86	23.44	69.81	856,525.00 gal
Canal	Surface water	0.00	0.00	0.00	114.58	3,280,000.00 gal
Application event totals		20.94	1.86	23.44	184.39	
09/02/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WWS	Process wastewater	32.49	2.89	36.35	108.29	1,328,500.00 gal
Canal	Surface water	0.00	0.00	0.00	162.09	4,640,000.00 gal
Application event totals		32.49	2.89	36.35	270.37	

12 - 11/05/2022: Wheat, silage, soft dough

Field name: 12

Crop: Wheat, silage, soft dough

Plant date: 11/05/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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12 - 11/05/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
09/20/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WWS	Process wastewater	65.19	7.69	92.86	525.68	610,505.00 gal
Irrigation Well	Ground water	1.01	0.00	0.00	125.44	3,048,000.00 gal
Irrigation Well	Ground water	11.56	0.00	0.00	374.02	3,048,000.00 gal
Application event totals		77.76	7.69	92.86	1,025.14	
11/28/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Well	Ground water	1.35	0.00	0.00	167.92	4,080,000.00 gal
Application event totals		1.35	0.00	0.00	167.92	
02/21/2023	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
WWS	Process wastewater	44.47	5.25	63.35	358.63	416,505.00 gal
Irrigation Well	Ground water	0.52	0.00	0.00	64.20	1,560,000.00 gal
Application event totals		44.99	5.25	63.35	422.84	
03/31/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WWS	Process wastewater	61.99	7.31	88.30	499.85	580,505.00 gal
Irrigation Well	Ground water	12.75	0.00	0.00	412.30	3,360,000.00 gal
Application event totals		74.73	7.31	88.30	912.15	
04/19/2023	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
WWS	Process wastewater	24.99	1.44	23.84	224.34	354,150.00 gal
Canal	Surface water	0.00	0.00	0.00	141.33	4,140,000.00 gal
Application event totals		24.99	1.44	23.84	365.67	

12 - 06/09/2023: Corn, silage

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

12 - 06/09/2023: Corn, silage

Field name: 12

Crop: Corn, silage

Plant date: 06/09/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/29/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WWS	Process wastewater	60.22	3.46	57.47	540.72	853,600.00 gal
Irrigation Well	Ground water	16.63	0.00	0.00	538.08	4,385,000.00 gal
Canal	Surface water	0.00	0.00	0.00	149.70	4,385,000.00 gal
Application event totals		76.86	3.46	57.47	1,228.50	
06/09/2023	Sidedress	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
30-0-0	Solid commercial fertilizer	24.86	0.00	0.00	0.00	
Application event totals		24.86	0.00	0.00	0.00	
07/04/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	198.69	5,820,000.00 gal
Application event totals		0.00	0.00	0.00	198.69	
07/19/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WWS	Process wastewater	54.47	3.13	51.98	489.03	772,000.00 gal
Canal	Surface water	0.00	0.00	0.00	114.71	3,360,000.00 gal
Application event totals		54.47	3.13	51.98	603.74	
07/30/2023	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
WWS	Process wastewater	52.63	3.03	50.22	472.50	745,900.00 gal
Canal	Surface water	0.00	0.00	0.00	154.31	4,520,000.00 gal
Application event totals		52.63	3.03	50.22	626.81	

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12 - 06/09/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
08/09/2023	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
WWS	Process wastewater	21.41	1.90	23.96	71.38	896,050.00 gal
Canal	Surface water	0.00	0.00	0.00	238.29	6,980,000.00 gal
Application event totals		21.41	1.90	23.96	309.66	
08/17/2023	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
WWS	Process wastewater	21.71	1.93	24.30	72.37	908,525.00 gal
Canal	Surface water	0.00	0.00	0.00	81.93	2,400,000.00 gal
Application event totals		21.71	1.93	24.30	154.30	
08/28/2023	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
WWS	Process wastewater	17.60	1.56	19.70	58.67	736,525.00 gal
Canal	Surface water	0.00	0.00	0.00	125.63	3,680,000.00 gal
Application event totals		17.60	1.56	19.70	184.30	
09/07/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WWS	Process wastewater	21.14	1.88	23.66	70.48	884,750.00 gal
Canal	Surface water	0.00	0.00	0.00	123.58	3,620,000.00 gal
Application event totals		21.14	1.88	23.66	194.06	
09/11/2023	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	86.03	2,520,000.00 gal
Application event totals		0.00	0.00	0.00	86.03	

13 - 11/05/2022: Wheat, silage, soft dough

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

13 - 11/05/2022: Wheat, silage, soft dough

Field name: 13

Crop: Wheat, silage, soft dough

Plant date: 11/05/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
09/07/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WWS	Process wastewater	82.17	9.69	117.06	662.64	752,080.00 gal
Irrigation Well	Ground water	1.21	0.00	0.00	186.96	4,320,000.00 gal
Application event totals		83.38	9.69	117.06	849.60	
12/01/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Well	Ground water	0.69	0.00	0.00	85.91	2,040,000.00 gal
Application event totals		0.69	0.00	0.00	85.91	
02/13/2023	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
WWS	Process wastewater	43.22	5.10	61.56	348.51	395,550.00 gal
Application event totals		43.22	5.10	61.56	348.51	
03/30/2023	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
WWS	Process wastewater	48.59	5.73	69.22	391.86	444,755.00 gal
Irrigation Well	Ground water	13.23	0.00	0.00	427.92	3,408,000.00 gal
Application event totals		61.82	5.73	69.22	819.78	
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
WWS	Process wastewater	24.38	1.40	23.26	218.86	337,650.00 gal
Irrigation Well	Ground water	0.97	0.00	0.00	119.81	2,845,000.00 gal
Canal	Surface water	0.00	0.00	0.00	99.38	2,845,000.00 gal
Application event totals		25.34	1.40	23.26	438.06	

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13 - 11/05/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
05/06/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Irrigation Well	Ground water	10.28	0.00	0.00	332.49
Application event totals		10.28	0.00	0.00	332.49

13 - 06/07/2023: Corn, silage

Field name: 13

Crop: Corn, silage

Plant date: 06/07/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
05/27/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
WWS	Process wastewater	75.66	4.35	72.20	679.31
Irrigation Well	Ground water	9.43	0.00	0.00	305.12
Canal	Surface water	0.00	0.00	0.00	84.89
Application event totals		85.09	4.35	72.20	1,069.31
06/07/2023	Sidedress	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
30-0-0	Solid commercial fertilizer	24.86	0.00	0.00	0.00
Application event totals		24.86	0.00	0.00	0.00
07/06/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Irrigation Well	Ground water	1.12	0.00	0.00	138.76
Canal	Surface water	0.00	0.00	0.00	115.10
Application event totals		1.12	0.00	0.00	253.87

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13 - 06/07/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
07/17/2023	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
WWS	Process wastewater	42.45	2.44	40.51	381.14	588,000.00 gal
Canal	Surface water	0.00	0.00	0.00	207.50	5,940,000.00 gal
Application event totals		42.45	2.44	40.51	588.64	
07/28/2023	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
WWS	Process wastewater	66.84	3.85	63.79	600.13	925,850.00 gal
Irrigation Well	Ground water	1.19	0.00	0.00	147.40	3,500,000.00 gal
Irrigation Well	Ground water	13.58	0.00	0.00	439.47	3,500,000.00 gal
Application event totals		81.61	3.85	63.79	1,187.00	
08/07/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	104.80	3,000,000.00 gal
Application event totals		0.00	0.00	0.00	104.80	
08/17/2023	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
WWS	Process wastewater	24.65	2.19	27.58	82.16	1,008,000.00 gal
Irrigation Well	Ground water	0.77	0.00	0.00	95.18	2,260,000.00 gal
Irrigation Well	Ground water	8.77	0.00	0.00	283.77	2,260,000.00 gal
Application event totals		34.19	2.19	27.58	461.11	
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	100.61	2,880,000.00 gal
Application event totals		0.00	0.00	0.00	100.61	

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13 - 06/07/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
09/05/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
WWS	Process wastewater	27.00	2.40	30.21	89.99
Irrigation Well	Ground water	1.15	0.00	0.00	142.34
Irrigation Well	Ground water	13.12	0.00	0.00	424.40
Application event totals		41.26	2.40	30.21	656.73

14 - 11/21/2022: Wheat, silage, soft dough

Field name: 14

Crop: Wheat, silage, soft dough Plant date: 11/21/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
09/27/2022	Broadcast/incorporate	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Solid Manure	Separator solids	187.62	22.26	64.66	0.00
Application event totals		187.62	22.26	64.66	0.00
10/19/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Irrigation Well	Ground water	1.09	0.00	0.00	169.50
Irrigation Well	Ground water	1.33	0.00	0.00	164.94
Application event totals		2.42	0.00	0.00	334.43
04/20/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Irrigation Well	Ground water	16.13	0.00	0.00	521.68
Canal	Surface water	0.00	0.00	0.00	145.14
Application event totals		16.13	0.00	0.00	666.82

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

14 - 11/21/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
05/09/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Irrigation Well	Ground water	11.46	0.00	0.00	370.65
Application event totals		11.46	0.00	0.00	370.65
					2,540,000.00 gal

14 - 06/14/2023: Corn, silage

Field name: 14

Crop: Corn, silage

Plant date: 06/14/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
06/01/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Irrigation Well	Ground water	4.33	0.00	0.00	140.09
Application event totals		4.33	0.00	0.00	140.09
05/31/2023	Broadcast/incorporate	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Solid Manure	Separator solids	221.90	22.19	117.96	1,014.90
Application event totals		221.90	22.19	117.96	1,014.90
06/14/2023	Sidedress	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
30-0-0	Solid commercial fertilizer	24.86	0.00	0.00	0.00
Application event totals		24.86	0.00	0.00	0.00
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)
Canal	Surface water	0.00	0.00	0.00	98.65
Application event totals		0.00	0.00	0.00	98.65
					2,430,000.00 gal

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14 - 06/14/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
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	31.67	780,000.00 gal
Application event totals		0.00	0.00	0.00	31.67	
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	65.77	1,620,000.00 gal
Application event totals		0.00	0.00	0.00	65.77	
08/09/2023	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
Irrigation Well	Ground water	1.49	0.00	0.00	184.27	3,765,000.00 gal
Canal	Surface water	0.00	0.00	0.00	152.85	3,765,000.00 gal
Application event totals		1.49	0.00	0.00	337.12	
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
Irrigation Well	Ground water	1.03	0.00	0.00	127.25	2,600,000.00 gal
Irrigation Well	Ground water	11.73	0.00	0.00	379.40	2,600,000.00 gal
Application event totals		12.75	0.00	0.00	506.65	
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
Irrigation Well	Ground water	17.34	0.00	0.00	561.08	3,845,000.00 gal
Canal	Surface water	0.00	0.00	0.00	196.69	4,845,000.00 gal
Application event totals		17.34	0.00	0.00	757.77	

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14 - 06/14/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
09/07/2023	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	235.46	5,800,000.00 gal
Application event totals		0.00	0.00	0.00	235.46	
09/13/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Well	Ground water	1.61	0.00	0.00	199.68	4,080,000.00 gal
Application event totals		1.61	0.00	0.00	199.68	

16 - 10/31/2022: Wheat, silage, soft dough

Field name: 16

Crop: Wheat, silage, soft dough

Plant date: 10/31/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
09/23/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WWS	Process wastewater	205.06	24.18	292.11	1,653.60	1,876,800.00 gal
Irrigation Well	Ground water	2.57	0.00	0.00	319.22	7,580,000.00 gal
Canal	Surface water	0.00	0.00	0.00	264.79	7,580,000.00 gal
Application event totals		207.64	24.18	292.11	2,237.61	

16 - 06/02/2023: Corn, silage

Field name: 16

Crop: Corn, silage

Plant date: 06/02/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following

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16 - 06/02/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/21/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WWS	Process wastewater	118.74	6.83	113.31	1,066.12	1,644,750.00 gal
Canal	Surface water	0.00	0.00	0.00	226.36	6,480,000.00 gal
Application event totals		118.74	6.83	113.31	1,292.48	
06/02/2023	Sidedress	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
30-0-0	Solid commercial fertilizer	24.86	0.00	0.00	0.00	
Application event totals		24.86	0.00	0.00	0.00	
06/24/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WWS	Process wastewater	117.45	6.76	112.08	1,054.48	1,626,800.00 gal
Canal	Surface water	0.00	0.00	0.00	189.33	5,420,000.00 gal
Application event totals		117.45	6.76	112.08	1,243.81	
07/06/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	165.58	4,740,000.00 gal
Application event totals		0.00	0.00	0.00	165.58	
07/15/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	190.73	5,460,000.00 gal
Application event totals		0.00	0.00	0.00	190.73	
07/27/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	154.40	4,420,000.00 gal
Application event totals		0.00	0.00	0.00	154.40	

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16 - 06/02/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
08/04/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Well	Ground water	11.64	0.00	0.00	376.69	3,000,000.00 gal
Application event totals		11.64	0.00	0.00	376.69	
08/14/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	132.05	3,780,000.00 gal
Application event totals		0.00	0.00	0.00	132.05	
08/22/2023	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	169.77	4,860,000.00 gal
Application event totals		0.00	0.00	0.00	169.77	
09/04/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	148.81	4,260,000.00 gal
Application event totals		0.00	0.00	0.00	148.81	

17 - 10/31/2022: Wheat, silage, soft dough

Field name: 17

Crop: Wheat, silage, soft dough

Plant date: 10/31/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following

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17 - 10/31/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
10/01/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
WWS	Process wastewater	198.38	23.40	282.59	1,599.69
Irrigation Well	Ground water	2.14	0.00	0.00	264.79
Canal	Surface water	0.00	0.00	0.00	286.40
Application event totals		200.51	23.40	282.59	2,150.87

17 - 05/27/2023: Corn, silage

Field name: 17

Crop: Corn, silage

Plant date: 05/27/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
05/15/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
WWS	Process wastewater	88.16	5.07	84.13	791.57
Irrigation Well	Ground water	1.04	0.00	0.00	128.57
Canal	Surface water	0.00	0.00	0.00	106.65
Application event totals		89.20	5.07	84.13	1,026.79
05/27/2023	Sidedress	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
30-0-0	Solid commercial fertilizer	24.86	0.00	0.00	0.00
Application event totals		24.86	0.00	0.00	0.00
06/17/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Irrigation Well	Ground water	1.04	0.00	0.00	129.18
Irrigation Well	Ground water	11.91	0.00	0.00	385.14
Application event totals		12.95	0.00	0.00	514.32

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17 - 05/27/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
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
WWS	Process wastewater	75.51	4.34	72.06	677.98	1,094,600.00 gal
Irrigation Well	Ground water	0.92	0.00	0.00	113.48	2,820,000.00 gal
Application event totals		76.43	4.34	72.06	791.46	
07/12/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WWS	Process wastewater	62.83	3.61	59.96	564.10	910,750.00 gal
Irrigation Well	Ground water	0.44	0.00	0.00	54.33	1,350,000.00 gal
Irrigation Well	Ground water	5.01	0.00	0.00	161.98	1,350,000.00 gal
Application event totals		68.27	3.61	59.96	780.41	
07/23/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	246.68	7,390,000.00 gal
Application event totals		0.00	0.00	0.00	246.68	
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	220.31	6,600,000.00 gal
Application event totals		0.00	0.00	0.00	220.31	
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
Irrigation Well	Ground water	11.35	0.00	0.00	367.15	3,060,000.00 gal
Application event totals		11.35	0.00	0.00	367.15	

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17 - 05/27/2023: 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
Irrigation Well	Ground water	15.35	0.00	0.00	496.73	4,140,000.00 gal
Application event totals		15.35	0.00	0.00	496.73	
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	130.18	3,900,000.00 gal
Application event totals		0.00	0.00	0.00	130.18	

18 - 01/01/2023: Alfalfa, hay

Field name: 18

Crop: Alfalfa, hay

Plant date: 01/01/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
02/25/2023	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	110.15	3,300,000.00 gal
Application event totals		0.00	0.00	0.00	110.15	
03/13/2023	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Solid Manure	Separator solids	189.47	18.95	100.72	866.57	810.00 ton
Application event totals		189.47	18.95	100.72	866.57	
04/04/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Well	Ground water	1.18	0.00	0.00	146.88	3,650,000.00 gal
Irrigation Well	Ground water	13.54	0.00	0.00	437.94	3,650,000.00 gal
Application event totals		14.72	0.00	0.00	584.82	

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18 - 01/01/2023: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
04/23/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Well	Ground water	1.03	0.00	0.00	127.97	3,180,000.00 gal
Application event totals		1.03	0.00	0.00	127.97	
05/09/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Well	Ground water	20.37	0.00	0.00	658.94	5,492,000.00 gal
Application event totals		20.37	0.00	0.00	658.94	
05/25/2023	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
Irrigation Well	Ground water	0.69	0.00	0.00	85.11	2,115,000.00 gal
Canal	Surface water	0.00	0.00	0.00	70.60	2,115,000.00 gal
Application event totals		0.69	0.00	0.00	155.71	
06/06/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	144.20	4,320,000.00 gal
Application event totals		0.00	0.00	0.00	144.20	
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
Irrigation Well	Ground water	0.66	0.00	0.00	81.49	2,025,000.00 gal
Canal	Surface water	0.00	0.00	0.00	67.59	2,025,000.00 gal
Application event totals		0.66	0.00	0.00	149.08	
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	90.39	2,708,000.00 gal
Application event totals		0.00	0.00	0.00	90.39	

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18 - 01/01/2023: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
08/01/2023	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	120.17	3,600,000.00 gal
Application event totals		0.00	0.00	0.00	120.17	
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
Irrigation Well	Ground water	0.97	0.00	0.00	120.72	3,000,000.00 gal
Application event totals		0.97	0.00	0.00	120.72	
09/17/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	108.15	3,240,000.00 gal
Application event totals		0.00	0.00	0.00	108.15	
10/13/2023	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
Irrigation Well	Ground water	0.93	0.00	0.00	115.90	2,880,000.00 gal
Canal	Surface water	0.00	0.00	0.00	96.13	2,880,000.00 gal
Application event totals		0.93	0.00	0.00	212.03	

19 - 01/01/2023: Alfalfa, hay

Field name: 19

Crop: Alfalfa, hay

Plant date: 01/01/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
02/27/2023	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
Irrigation Well	Ground water	2.18	0.00	0.00	269.98	6,560,000.00 gal
Application event totals		2.18	0.00	0.00	269.98	

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19 - 01/01/2023: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
03/13/2023	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Solid Manure	Separator solids	189.47	18.95	100.72	866.57	792.00 ton
Application event totals		189.47	18.95	100.72	866.57	
04/03/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Well	Ground water	1.41	0.00	0.00	175.32	4,260,000.00 gal
Irrigation Well	Ground water	16.16	0.00	0.00	522.74	4,260,000.00 gal
Application event totals		17.57	0.00	0.00	698.07	
04/25/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Well	Ground water	1.85	0.00	0.00	229.65	5,580,000.00 gal
Application event totals		1.85	0.00	0.00	229.65	
05/09/2023	Pipeline	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
Irrigation Well	Ground water	1.02	0.00	0.00	125.94	3,060,000.00 gal
Application event totals		1.02	0.00	0.00	125.94	
05/24/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Well	Ground water	1.13	0.00	0.00	139.72	3,395,000.00 gal
Canal	Surface water	0.00	0.00	0.00	115.90	3,395,000.00 gal
Application event totals		1.13	0.00	0.00	255.63	
06/05/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Well	Ground water	1.10	0.00	0.00	170.87	4,040,000.00 gal
Application event totals		1.10	0.00	0.00	170.87	

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19 - 01/01/2023: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
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
Irrigation Well	Ground water	1.19	0.00	0.00	147.13	3,575,000.00 gal
Canal	Surface water	0.00	0.00	0.00	122.05	3,575,000.00 gal
Application event totals		1.19	0.00	0.00	269.18	
07/09/2023	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
Irrigation Well	Ground water	10.41	0.00	0.00	336.84	2,745,000.00 gal
Canal	Surface water	0.00	0.00	0.00	93.71	2,745,000.00 gal
Application event totals		10.41	0.00	0.00	430.55	

2 - 01/01/2023: Alfalfa, hay

Field name: 2

Crop: Alfalfa, hay

Plant date: 01/01/2023

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
Irrigation Well	Ground water	0.55	0.00	0.00	84.96	2,100,000.00 gal
Application event totals		0.55	0.00	0.00	84.96	
03/11/2023	Broadcast/incorporate	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
Solid Manure	Separator solids	189.47	18.95	100.72	866.57	828.00 ton
Application event totals		189.47	18.95	100.72	866.57	

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2 - 01/01/2023: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
04/04/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Well	Ground water	0.42	0.00	0.00	65.54	1,620,000.00 gal
Irrigation Well	Ground water	0.00	0.00	0.00	61.72	1,620,000.00 gal
Application event totals		0.42	0.00	0.00	127.25	
04/23/2023	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
Irrigation Well	Ground water	0.65	0.00	0.00	100.13	2,475,000.00 gal
Canal	Surface water	0.00	0.00	0.00	80.82	2,475,000.00 gal
Application event totals		0.65	0.00	0.00	180.95	
05/06/2023	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
Irrigation Well	Ground water	0.80	0.00	0.00	123.79	3,060,000.00 gal
Canal	Surface water	0.00	0.00	0.00	99.92	3,060,000.00 gal
Application event totals		0.80	0.00	0.00	223.71	
05/24/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Well	Ground water	0.53	0.00	0.00	81.92	2,025,000.00 gal
Canal	Surface water	0.00	0.00	0.00	66.13	2,025,000.00 gal
Application event totals		0.53	0.00	0.00	148.05	
06/04/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Well	Ground water	0.86	0.00	0.00	132.90	3,285,000.00 gal
Canal	Surface water	0.00	0.00	0.00	107.27	3,285,000.00 gal
Application event totals		0.86	0.00	0.00	240.16	

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2 - 01/01/2023: Alfalfa, hay

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
Irrigation Well	Ground water	0.54	0.00	0.00	83.74	2,070,000.00 gal
Canal	Surface water	0.00	0.00	0.00	67.59	2,070,000.00 gal
Application event totals		0.54	0.00	0.00	151.34	
07/23/2023	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
Irrigation Well	Ground water	0.61	0.00	0.00	94.66	2,340,000.00 gal
Canal	Surface water	0.00	0.00	0.00	76.41	2,340,000.00 gal
Application event totals		0.61	0.00	0.00	171.08	
08/21/2023	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
Irrigation Well	Ground water	3.55	0.00	0.00	151.83	1,530,000.00 gal
Canal	Surface water	0.00	0.00	0.00	49.96	1,530,000.00 gal
Application event totals		3.55	0.00	0.00	201.79	
09/02/2023	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
Irrigation Well	Ground water	0.47	0.00	0.00	72.82	1,800,000.00 gal
Canal	Surface water	0.00	0.00	0.00	58.78	1,800,000.00 gal
Application event totals		0.47	0.00	0.00	131.60	
09/13/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Well	Ground water	0.80	0.00	0.00	123.79	3,060,000.00 gal
Canal	Surface water	0.00	0.00	0.00	99.92	3,060,000.00 gal
Application event totals		0.80	0.00	0.00	223.71	

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2 - 01/01/2023: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
10/11/2023	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
Irrigation Well	Ground water	0.76	0.00	0.00	118.33	2,925,000.00 gal
Canal	Surface water	0.00	0.00	0.00	95.51	2,925,000.00 gal
Application event totals		0.76	0.00	0.00	213.85	

20 - 11/01/2022: Wheat, silage, soft dough

Field name: 20

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	
09/17/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WWS	Process wastewater	121.66	14.35	173.31	981.06	984,000.00 gal
Irrigation Well	Ground water	1.71	0.00	0.00	211.59	4,440,000.00 gal
Application event totals		123.37	14.35	173.31	1,192.64	
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
WWS	Process wastewater	86.61	10.21	123.37	698.40	700,500.00 gal
Irrigation Well	Ground water	2.08	0.00	0.00	257.33	5,400,000.00 gal
Application event totals		88.68	10.21	123.37	955.74	
04/12/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	274.33	6,940,000.00 gal
Application event totals		0.00	0.00	0.00	274.33	

20 - 05/31/2023: Corn, silage

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20 - 05/31/2023: Corn, silage

Field name: 20

Crop: Corn, silage

Plant date: 05/31/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/18/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WWS	Process wastewater	66.17	3.81	63.15	594.12	810,000.00 gal
Irrigation Well	Ground water	0.52	0.00	0.00	64.33	1,350,000.00 gal
Irrigation Well	Ground water	5.93	0.00	0.00	191.81	1,350,000.00 gal
Application event totals		72.62	3.81	63.15	850.27	
05/31/2023	Sidedress	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
30-0-0	Solid commercial fertilizer	24.86	0.00	0.00	0.00	
Application event totals		24.86	0.00	0.00	0.00	
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
WWS	Process wastewater	75.81	4.36	72.35	680.67	928,000.00 gal
Irrigation Well	Ground water	0.81	0.00	0.00	100.79	2,115,000.00 gal
Canal	Surface water	0.00	0.00	0.00	83.60	2,115,000.00 gal
Application event totals		76.62	4.36	72.35	865.06	
07/03/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WWS	Process wastewater	82.35	4.74	78.58	739.35	1,008,000.00 gal
Irrigation Well	Ground water	0.73	0.00	0.00	90.07	1,890,000.00 gal
Canal	Surface water	0.00	0.00	0.00	74.71	1,890,000.00 gal
Application event totals		83.07	4.74	78.58	904.13	

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20 - 05/31/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
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
WWS	Process wastewater	31.88	2.83	35.67	106.25	1,152,000.00 gal
Irrigation Well	Ground water	0.83	0.00	0.00	102.93	2,160,000.00 gal
Canal	Surface water	0.00	0.00	0.00	85.38	2,160,000.00 gal
Application event totals		32.71	2.83	35.67	294.57	
07/26/2023	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
Irrigation Well	Ground water	0.57	0.00	0.00	70.77	1,485,000.00 gal
Canal	Surface water	0.00	0.00	0.00	58.70	1,485,000.00 gal
Application event totals		0.57	0.00	0.00	129.47	
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
Irrigation Well	Ground water	1.45	0.00	0.00	180.13	3,780,000.00 gal
Application event totals		1.45	0.00	0.00	180.13	
08/15/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WWS	Process wastewater	34.53	3.07	38.64	115.11	1,248,000.00 gal
Irrigation Well	Ground water	0.60	0.00	0.00	74.34	1,560,000.00 gal
Irrigation Well	Ground water	6.85	0.00	0.00	221.65	1,560,000.00 gal
Application event totals		41.98	3.07	38.64	411.10	
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
Irrigation Well	Ground water	0.73	0.00	0.00	90.07	1,890,000.00 gal
Canal	Surface water	0.00	0.00	0.00	74.71	1,890,000.00 gal
Application event totals		0.73	0.00	0.00	164.78	

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20 - 05/31/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
09/02/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Irrigation Well	Ground water	1.76	0.00	0.00	218.02
Canal	Surface water	0.00	0.00	0.00	180.84
Application event totals		1.76	0.00	0.00	398.86

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

Field name: 21

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
09/15/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
WWS	Process wastewater	207.47	24.47	295.54	1,673.00
Irrigation Well	Ground water	1.07	0.00	0.00	132.80
Irrigation Well	Ground water	12.24	0.00	0.00	395.94
Application event totals		220.78	24.47	295.54	2,201.74

21 - 05/29/2023: Corn, silage

Field name: 21

Crop: Corn, silage Plant date: 05/29/2023

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)
WWS	Process wastewater	80.71	4.64	77.02	724.68
Irrigation Well	Ground water	0.95	0.00	0.00	117.71
Canal	Surface water	0.00	0.00	0.00	97.64
Application event totals		81.66	4.64	77.02	940.02

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21 - 05/29/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/29/2023	Sidedress	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
30-0-0	Solid commercial fertilizer	24.86	0.00	0.00	0.00	
Application event totals		24.86	0.00	0.00	0.00	
06/20/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WWS	Process wastewater	61.78	3.55	58.96	554.69	358,220.00 gal
Irrigation Well	Ground water	0.75	0.00	0.00	93.56	930,000.00 gal
Irrigation Well	Ground water	0.75	0.00	0.00	93.56	930,000.00 gal
Application event totals		63.29	3.55	58.96	741.81	
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
WWS	Process wastewater	49.67	2.86	47.40	445.96	288,000.00 gal
Irrigation Well	Ground water	0.58	0.00	0.00	72.43	720,000.00 gal
Canal	Surface water	0.00	0.00	0.00	60.08	720,000.00 gal
Application event totals		50.25	2.86	47.40	578.48	
07/14/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WWS	Process wastewater	15.20	1.35	17.01	50.67	260,200.00 gal
Canal	Surface water	0.00	0.00	0.00	100.14	1,200,000.00 gal
Application event totals		15.20	1.35	17.01	150.81	
07/26/2023	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
WWS	Process wastewater	17.87	1.59	20.00	59.58	306,000.00 gal
Irrigation Well	Ground water	0.62	0.00	0.00	76.96	765,000.00 gal
Canal	Surface water	0.00	0.00	0.00	63.84	765,000.00 gal
Application event totals		18.50	1.59	20.00	200.38	

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21 - 05/29/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
08/03/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Well	Ground water	1.06	0.00	0.00	131.29	1,305,000.00 gal
Canal	Surface water	0.00	0.00	0.00	108.90	1,305,000.00 gal
Application event totals		1.06	0.00	0.00	240.19	
08/13/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Well	Ground water	1.22	0.00	0.00	150.91	1,500,000.00 gal
Irrigation Well	Ground water	13.91	0.00	0.00	449.93	1,500,000.00 gal
Application event totals		15.13	0.00	0.00	600.84	
08/25/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WWS	Process wastewater	26.29	2.34	29.42	87.62	450,000.00 gal
Irrigation Well	Ground water	3.85	0.00	0.00	154.28	675,000.00 gal
Canal	Surface water	0.00	0.00	0.00	56.33	675,000.00 gal
Application event totals		30.14	2.34	29.42	298.23	
08/30/2023	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
Irrigation Well	Ground water	0.73	0.00	0.00	90.54	900,000.00 gal
Canal	Surface water	0.00	0.00	0.00	75.11	900,000.00 gal
Application event totals		0.73	0.00	0.00	165.65	

3 - 01/01/2023: Alfalfa, hay

Field name: 3

Crop: Alfalfa, hay

Plant date: 01/01/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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3 - 01/01/2023: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
02/28/2023	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
Irrigation Well	Ground water	0.55	0.00	0.00	84.42	1,860,000.00 gal
Application event totals		0.55	0.00	0.00	84.42	
03/12/2023	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Solid Manure	Separator solids	189.47	18.95	100.72	866.57	738.00 ton
Application event totals		189.47	18.95	100.72	866.57	
04/06/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Well	Ground water	0.65	0.00	0.00	100.76	2,220,000.00 gal
Irrigation Well	Ground water	0.00	0.00	0.00	94.89	2,220,000.00 gal
Application event totals		0.65	0.00	0.00	195.65	
04/27/2023	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
Irrigation Well	Ground water	0.30	0.00	0.00	46.98	1,035,000.00 gal
Canal	Surface water	0.00	0.00	0.00	37.92	1,035,000.00 gal
Application event totals		0.30	0.00	0.00	84.90	
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
Irrigation Well	Ground water	0.42	0.00	0.00	65.36	1,440,000.00 gal
Canal	Surface water	0.00	0.00	0.00	52.76	1,440,000.00 gal
Application event totals		0.42	0.00	0.00	118.12	

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3 - 01/01/2023: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/26/2023	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
Irrigation Well	Ground water	0.83	0.00	0.00	128.68	2,835,000.00 gal
Canal	Surface water	0.00	0.00	0.00	103.86	2,835,000.00 gal
Application event totals		0.83	0.00	0.00	232.54	
06/07/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Well	Ground water	0.59	0.00	0.00	91.91	2,025,000.00 gal
Canal	Surface water	0.00	0.00	0.00	74.19	2,025,000.00 gal
Application event totals		0.59	0.00	0.00	166.10	
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
Irrigation Well	Ground water	0.63	0.00	0.00	98.04	2,160,000.00 gal
Canal	Surface water	0.00	0.00	0.00	79.14	2,160,000.00 gal
Application event totals		0.63	0.00	0.00	177.17	
07/22/2023	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
Irrigation Well	Ground water	0.59	0.00	0.00	91.46	2,015,000.00 gal
Canal	Surface water	0.00	0.00	0.00	73.82	2,015,000.00 gal
Application event totals		0.59	0.00	0.00	165.28	
08/19/2023	Pipeline	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
Irrigation Well	Ground water	3.26	0.00	0.00	139.17	1,250,000.00 gal
Canal	Surface water	0.00	0.00	0.00	45.80	1,250,000.00 gal
Application event totals		3.26	0.00	0.00	184.96	

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3 - 01/01/2023: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
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
Irrigation Well	Ground water	0.39	0.00	0.00	60.82	1,340,000.00 gal
Canal	Surface water	0.00	0.00	0.00	49.09	1,340,000.00 gal
Application event totals		0.39	0.00	0.00	109.91	
09/15/2023	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
Irrigation Well	Ground water	0.66	0.00	0.00	101.67	2,240,000.00 gal
Canal	Surface water	0.00	0.00	0.00	82.07	2,240,000.00 gal
Application event totals		0.66	0.00	0.00	183.74	
10/14/2023	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
Irrigation Well	Ground water	0.34	0.00	0.00	52.65	1,160,000.00 gal
Canal	Surface water	0.00	0.00	0.00	42.50	1,160,000.00 gal
Application event totals		0.34	0.00	0.00	95.15	

4 - 10/30/2022: Wheat, silage, soft dough

Field name: 4

Crop: Wheat, silage, soft dough

Plant date: 10/30/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
10/01/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WWS	Process wastewater	93.96	11.08	133.85	757.73	840,000.00 gal
Irrigation Well	Ground water	11.04	0.00	0.00	471.69	4,340,000.00 gal
Irrigation Well	Ground water	1.24	0.00	0.00	192.30	4,340,000.00 gal
Application event totals		106.24	11.08	133.85	1,421.71	

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4 - 10/30/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
12/11/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WWS	Process wastewater	24.21	2.85	34.48	195.20	216,400.00 gal
Application event totals		24.21	2.85	34.48	195.20	
02/07/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WWS	Process wastewater	52.86	6.23	75.29	426.22	472,500.00 gal
Application event totals		52.86	6.23	75.29	426.22	
04/09/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WWS	Process wastewater	48.19	2.77	45.99	432.68	652,000.00 gal
Irrigation Well	Ground water	2.67	0.00	0.00	412.95	9,320,000.00 gal
Application event totals		50.86	2.77	45.99	845.63	

4 - 05/26/2023: Corn, silage

Field name:	4	Plant date:	05/26/2023			
Crop:	Corn, silage					
Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
05/15/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WWS	Process wastewater	71.40	4.11	68.14	641.06	966,000.00 gal
Irrigation Well	Ground water	0.66	0.00	0.00	101.69	2,295,000.00 gal
Canal	Surface water	0.00	0.00	0.00	82.08	2,295,000.00 gal
Application event totals		72.06	4.11	68.14	824.83	

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4 - 05/26/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/26/2023	Sidedress	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
30-0-0	Solid commercial fertilizer	24.86	0.00	0.00	0.00	
Application event totals		24.86	0.00	0.00	0.00	
06/16/2023	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
Irrigation Well	Ground water	1.24	0.00	0.00	191.41	4,320,000.00 gal
Canal	Surface water	0.00	0.00	0.00	154.50	4,320,000.00 gal
Application event totals		1.24	0.00	0.00	345.91	
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
WWS	Process wastewater	54.80	3.15	52.29	492.01	741,400.00 gal
Irrigation Well	Ground water	1.24	0.00	0.00	153.28	3,555,000.00 gal
Canal	Surface water	0.00	0.00	0.00	127.14	3,555,000.00 gal
Application event totals		56.04	3.15	52.29	772.43	
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
WWS	Process wastewater	46.57	2.68	44.44	418.08	630,000.00 gal
Irrigation Well	Ground water	0.94	0.00	0.00	146.22	3,300,000.00 gal
Application event totals		47.51	2.68	44.44	564.30	
07/18/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Well	Ground water	0.61	0.00	0.00	75.67	1,755,000.00 gal
Canal	Surface water	0.00	0.00	0.00	62.77	1,755,000.00 gal
Application event totals		0.61	0.00	0.00	138.43	

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4 - 05/26/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
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
WWS	Process wastewater	25.55	2.27	28.59	85.16	1,020,500.00 gal
Canal	Surface water	0.00	0.00	0.00	153.79	4,300,000.00 gal
Application event totals		25.55	2.27	28.59	238.95	
08/03/2023	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
WWS	Process wastewater	8.07	0.72	9.04	26.91	322,515.00 gal
Irrigation Well	Ground water	2.92	0.00	0.00	124.99	1,150,000.00 gal
Canal	Surface water	0.00	0.00	0.00	41.13	1,150,000.00 gal
Application event totals		11.00	0.72	9.04	193.03	
08/12/2023	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
WWS	Process wastewater	13.73	1.22	15.37	45.77	548,500.00 gal
Canal	Surface water	0.00	0.00	0.00	90.13	2,520,000.00 gal
Application event totals		13.73	1.22	15.37	135.90	
08/23/2023	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
WWS	Process wastewater	24.10	2.14	26.96	80.32	962,500.00 gal
Irrigation Well	Ground water	0.54	0.00	0.00	67.48	1,565,000.00 gal
Canal	Surface water	0.00	0.00	0.00	55.97	1,565,000.00 gal
Application event totals		24.64	2.14	26.96	203.77	
09/03/2023	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	99.07	2,770,000.00 gal
Application event totals		0.00	0.00	0.00	99.07	

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5 - 11/06/2022: Wheat, silage, soft dough

Field name: 5

Crop: Wheat, silage, soft dough

Plant date: 11/06/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
09/29/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WWS	Process wastewater	62.98	7.43	89.72	507.89	710,505.00 gal
Irrigation Well	Ground water	1.07	0.00	0.00	165.38	4,710,000.00 gal
Irrigation Well	Ground water	9.49	0.00	0.00	405.66	4,710,000.00 gal
Application event totals		73.54	7.43	89.72	1,078.93	
11/28/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Well	Ground water	1.06	0.00	0.00	163.48	4,656,000.00 gal
Application event totals		1.06	0.00	0.00	163.48	
02/06/2023	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
WWS	Process wastewater	54.30	6.40	77.34	437.84	612,500.00 gal
Application event totals		54.30	6.40	77.34	437.84	
03/20/2023	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
WWS	Process wastewater	42.73	5.04	60.87	344.55	482,000.00 gal
Application event totals		42.73	5.04	60.87	344.55	
04/16/2023	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
WWS	Process wastewater	19.91	1.15	19.00	178.80	340,000.00 gal
Irrigation Well	Ground water	0.52	0.00	0.00	80.06	2,280,000.00 gal
Application event totals		20.43	1.15	19.00	258.86	

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5 - 11/06/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
05/02/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
WWS	Process wastewater	29.64	1.71	28.29	266.13
Irrigation Well	Ground water	0.55	0.00	0.00	85.32
Canal	Surface water	0.00	0.00	0.00	68.87
Application event totals		30.19	1.71	28.29	420.32

5 - 06/12/2023: Corn, silage

Field name: 5

Crop: Corn, silage

Plant date: 06/12/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
05/30/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
WWS	Process wastewater	56.80	3.27	54.20	509.98
Irrigation Well	Ground water	0.84	0.00	0.00	129.91
Canal	Surface water	0.00	0.00	0.00	104.86
Application event totals		57.64	3.27	54.20	744.76
06/12/2023	Sidedress	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
30-0-0	Solid commercial fertilizer	24.86	0.00	0.00	0.00
Application event totals		24.86	0.00	0.00	0.00
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)
WWS	Process wastewater	63.99	3.68	61.07	574.54
Irrigation Well	Ground water	0.78	0.00	0.00	120.08
Application event totals		64.77	3.68	61.07	694.62

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5 - 06/12/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
07/18/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WWS	Process wastewater	49.54	2.85	47.27	444.77	845,750.00 gal
Irrigation Well	Ground water	0.54	0.00	0.00	84.27	2,400,000.00 gal
Application event totals		50.08	2.85	47.27	529.04	
07/27/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WWS	Process wastewater	10.04	0.89	11.23	33.46	506,000.00 gal
Irrigation Well	Ground water	1.10	0.00	0.00	170.12	4,845,000.00 gal
Canal	Surface water	0.00	0.00	0.00	137.31	4,845,000.00 gal
Application event totals		11.14	0.89	11.23	340.89	
08/03/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WWS	Process wastewater	14.40	1.28	16.12	48.01	726,000.00 gal
Irrigation Well	Ground water	0.90	0.00	0.00	140.10	3,990,000.00 gal
Canal	Surface water	0.00	0.00	0.00	113.08	3,990,000.00 gal
Application event totals		15.31	1.28	16.12	301.19	
08/12/2023	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
WWS	Process wastewater	13.44	1.19	15.03	44.78	677,200.00 gal
Irrigation Well	Ground water	7.84	0.00	0.00	335.03	3,890,000.00 gal
Canal	Surface water	0.00	0.00	0.00	110.25	3,890,000.00 gal
Application event totals		21.27	1.19	15.03	490.06	

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5 - 06/12/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
08/23/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WWS	Process wastewater	19.23	1.71	21.52	64.11	969,500.00 gal
Irrigation Well	Ground water	4.63	0.00	0.00	197.66	2,295,000.00 gal
Canal	Surface water	0.00	0.00	0.00	65.04	2,295,000.00 gal
Application event totals		23.86	1.71	21.52	326.82	
09/03/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WWS	Process wastewater	18.55	1.65	20.76	61.85	935,250.00 gal
Canal	Surface water	0.00	0.00	0.00	132.64	4,680,000.00 gal
Application event totals		18.55	1.65	20.76	194.49	
09/11/2023	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
Irrigation Well	Ground water	0.58	0.00	0.00	90.41	2,575,000.00 gal
Canal	Surface water	0.00	0.00	0.00	72.98	2,575,000.00 gal
Application event totals		0.58	0.00	0.00	163.39	

6 - 10/28/2022: Wheat, silage, soft dough

Field name: 6

Crop: Wheat, silage, soft dough

Plant date: 10/28/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
09/27/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WWS	Process wastewater	75.06	8.85	106.92	605.26	686,950.00 gal
Irrigation Well	Ground water	1.19	0.00	0.00	184.36	4,260,000.00 gal
Irrigation Well	Ground water	10.58	0.00	0.00	452.23	4,260,000.00 gal
Application event totals		86.83	8.85	106.92	1,241.84	

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6 - 10/28/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
02/09/2023	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
WWS	Process wastewater	82.17	9.69	117.05	662.61	752,050.00 gal
Irrigation Well	Ground water	1.65	0.00	0.00	256.20	5,920,000.00 gal
Application event totals		83.82	9.69	117.05	918.82	
04/12/2023	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
WWS	Process wastewater	40.72	2.34	38.86	365.58	564,000.00 gal
Irrigation Well	Ground water	0.82	0.00	0.00	127.24	2,940,000.00 gal
Application event totals		41.54	2.34	38.86	492.82	

6 - 05/31/2023: Corn, silage

Field name: 6

Crop: Corn, silage

Plant date: 05/31/2023

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
WWS	Process wastewater	73.98	4.26	70.60	664.20	1,024,700.00 gal
Irrigation Well	Ground water	0.80	0.00	0.00	124.64	2,880,000.00 gal
Canal	Surface water	0.00	0.00	0.00	100.61	2,880,000.00 gal
Application event totals		74.78	4.26	70.60	889.45	
05/31/2023	Sidedress	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
30-0-0	Solid commercial fertilizer	24.86	0.00	0.00	0.00	
Application event totals		24.86	0.00	0.00	0.00	

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6 - 05/31/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/20/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WWS	Process wastewater	66.06	3.80	63.04	593.13	915,055.00 gal
Irrigation Well	Ground water	0.92	0.00	0.00	142.17	3,285,000.00 gal
Canal	Surface water	0.00	0.00	0.00	114.75	3,285,000.00 gal
Application event totals		66.98	3.80	63.04	850.05	
07/04/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WWS	Process wastewater	55.77	3.21	53.22	500.73	772,500.00 gal
Irrigation Well	Ground water	0.53	0.00	0.00	81.79	1,890,000.00 gal
Canal	Surface water	0.00	0.00	0.00	66.02	1,890,000.00 gal
Application event totals		56.30	3.21	53.22	648.55	
07/14/2023	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
WWS	Process wastewater	15.60	1.39	17.46	52.01	638,050.00 gal
Irrigation Well	Ground water	0.36	0.00	0.00	55.83	1,290,000.00 gal
Irrigation Well	Ground water	3.20	0.00	0.00	136.94	1,290,000.00 gal
Application event totals		19.17	1.39	17.46	244.78	
07/19/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Well	Ground water	0.70	0.00	0.00	109.06	2,520,000.00 gal
Canal	Surface water	0.00	0.00	0.00	88.03	2,520,000.00 gal
Application event totals		0.70	0.00	0.00	197.09	
07/27/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Well	Ground water	0.69	0.00	0.00	106.25	2,455,000.00 gal
Canal	Surface water	0.00	0.00	0.00	85.76	2,455,000.00 gal
Application event totals		0.69	0.00	0.00	192.01	

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6 - 05/31/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
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
WWS	Process wastewater	11.85	1.05	13.26	39.51	484,750.00 gal
Irrigation Well	Ground water	3.30	0.00	0.00	141.19	1,330,000.00 gal
Canal	Surface water	0.00	0.00	0.00	46.46	1,330,000.00 gal
Application event totals		15.16	1.05	13.26	227.16	
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
Irrigation Well	Ground water	6.21	0.00	0.00	265.39	2,500,000.00 gal
Canal	Surface water	0.00	0.00	0.00	87.33	2,500,000.00 gal
Application event totals		6.21	0.00	0.00	352.72	
08/25/2023	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
WWS	Process wastewater	21.86	1.94	24.47	72.88	894,150.00 gal
Irrigation Well	Ground water	0.20	0.00	0.00	30.64	708,000.00 gal
Irrigation Well	Ground water	1.76	0.00	0.00	75.16	708,000.00 gal
Application event totals		23.82	1.94	24.47	178.68	
09/04/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WWS	Process wastewater	13.65	1.21	15.28	45.51	558,400.00 gal
Irrigation Well	Ground water	4.69	0.00	0.00	200.64	1,890,000.00 gal
Irrigation Well	Ground water	0.64	0.00	0.00	79.59	1,890,000.00 gal
Application event totals		18.99	1.21	15.28	325.74	

7 - 10/29/2022: Wheat, silage, soft dough

Field name: 7

Crop: Wheat, silage, soft dough

Plant date: 10/29/2022

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7 - 10/29/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
10/11/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WWS	Process wastewater	70.58	8.32	100.55	569.18	676,050.00 gal
Irrigation Well	Ground water	1.53	0.00	0.00	236.96	5,730,000.00 gal
Irrigation Well	Ground water	13.60	0.00	0.00	581.24	5,730,000.00 gal
Application event totals		85.71	8.32	100.55	1,387.38	
12/18/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WWS	Process wastewater	54.68	6.45	77.90	440.98	523,775.00 gal
Application event totals		54.68	6.45	77.90	440.98	
02/10/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WWS	Process wastewater	39.95	4.71	56.91	322.16	382,650.00 gal
Application event totals		39.95	4.71	56.91	322.16	
04/14/2023	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
WWS	Process wastewater	43.36	2.49	41.38	389.31	628,550.00 gal
Irrigation Well	Ground water	2.08	0.00	0.00	322.56	7,800,000.00 gal
Application event totals		45.44	2.49	41.38	711.88	

7 - 06/01/2023: Corn, silage

Field name: 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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7 - 06/01/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/20/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WWS	Process wastewater	61.73	3.55	58.91	554.21	894,775.00 gal
Irrigation Well	Ground water	0.71	0.00	0.00	109.80	2,655,000.00 gal
Canal	Surface water	0.00	0.00	0.00	88.62	2,655,000.00 gal
Application event totals		62.44	3.55	58.91	752.63	
06/01/2023	Sidedress	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
30-0-0	Solid commercial fertilizer	24.86	0.00	0.00	0.00	
Application event totals		24.86	0.00	0.00	0.00	
06/23/2023	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
WWS	Process wastewater	44.01	2.53	42.00	395.17	638,007.00 gal
Irrigation Well	Ground water	0.52	0.00	0.00	80.02	1,935,000.00 gal
Canal	Surface water	0.00	0.00	0.00	64.59	1,935,000.00 gal
Application event totals		44.53	2.53	42.00	539.78	
07/06/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WWS	Process wastewater	48.71	2.80	46.48	437.32	706,050.00 gal
Irrigation Well	Ground water	0.49	0.00	0.00	76.30	1,845,000.00 gal
Canal	Surface water	0.00	0.00	0.00	61.59	1,845,000.00 gal
Application event totals		49.20	2.80	46.48	575.20	
07/15/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WWS	Process wastewater	19.12	1.70	21.40	63.73	818,255.00 gal
Irrigation Well	Ground water	0.58	0.00	0.00	90.57	2,190,000.00 gal
Canal	Surface water	0.00	0.00	0.00	73.10	2,190,000.00 gal
Application event totals		19.70	1.70	21.40	227.40	

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7 - 06/01/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
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
WWS	Process wastewater	14.17	1.26	15.85	47.22	606,225.00 gal
Irrigation Well	Ground water	0.33	0.00	0.00	50.87	1,230,000.00 gal
Irrigation Well	Ground water	2.92	0.00	0.00	124.77	1,230,000.00 gal
Application event totals		17.41	1.26	15.85	222.85	
07/30/2023	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
WWS	Process wastewater	22.53	2.00	25.21	75.09	964,150.00 gal
Irrigation Well	Ground water	0.52	0.00	0.00	80.39	1,944,000.00 gal
Canal	Surface water	0.00	0.00	0.00	64.89	1,944,000.00 gal
Application event totals		23.05	2.00	25.21	220.38	
08/09/2023	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
Irrigation Well	Ground water	0.95	0.00	0.00	147.84	3,575,000.00 gal
Canal	Surface water	0.00	0.00	0.00	119.33	3,575,000.00 gal
Application event totals		0.95	0.00	0.00	267.17	
08/16/2023	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
WWS	Process wastewater	16.60	1.48	18.57	55.32	710,225.00 gal
Irrigation Well	Ground water	5.02	0.00	0.00	214.54	2,115,000.00 gal
Canal	Surface water	0.00	0.00	0.00	70.60	2,115,000.00 gal
Application event totals		21.62	1.48	18.57	340.46	

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7 - 06/01/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
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
WWS	Process wastewater	23.89	2.12	26.74	79.64	1,022,500.00 gal
Irrigation Well	Ground water	0.70	0.00	0.00	107.93	2,610,000.00 gal
Canal	Surface water	0.00	0.00	0.00	87.12	2,610,000.00 gal
Application event totals		24.59	2.12	26.74	274.70	
09/06/2023	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
WWS	Process wastewater	22.76	2.02	25.47	75.86	974,010.00 gal
Irrigation Well	Ground water	0.47	0.00	0.00	72.58	1,755,000.00 gal
Canal	Surface water	0.00	0.00	0.00	58.58	1,755,000.00 gal
Application event totals		23.23	2.02	25.47	207.02	

8 - 01/01/2023: Alfalfa, hay

Field name: 8

Crop: Alfalfa, hay Plant date: 01/01/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
03/12/2023	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Solid Manure	Separator solids	189.47	18.95	100.72	866.57	756.00 ton
Application event totals		189.47	18.95	100.72	866.57	
05/01/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Well	Ground water	0.45	0.00	0.00	69.79	1,575,000.00 gal
Canal	Surface water	0.00	0.00	0.00	56.33	1,575,000.00 gal
Application event totals		0.45	0.00	0.00	126.11	

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8 - 01/01/2023: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/28/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Well	Ground water	0.61	0.00	0.00	93.71	2,115,000.00 gal
Canal	Surface water	0.00	0.00	0.00	75.64	2,115,000.00 gal
Application event totals		0.61	0.00	0.00	169.35	
06/09/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	203.86	5,700,000.00 gal
Application event totals		0.00	0.00	0.00	203.86	
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
Irrigation Well	Ground water	0.62	0.00	0.00	95.71	2,160,000.00 gal
Canal	Surface water	0.00	0.00	0.00	77.25	2,160,000.00 gal
Application event totals		0.62	0.00	0.00	172.96	
07/20/2023	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
Irrigation Well	Ground water	1.19	0.00	0.00	184.32	4,160,000.00 gal
Canal	Surface water	0.00	0.00	0.00	148.78	4,160,000.00 gal
Application event totals		1.19	0.00	0.00	333.10	
08/01/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Well	Ground water	0.74	0.00	0.00	114.09	2,575,000.00 gal
Canal	Surface water	0.00	0.00	0.00	92.09	2,575,000.00 gal
Application event totals		0.74	0.00	0.00	206.19	

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8 - 01/01/2023: Alfalfa, hay

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
Irrigation Well	Ground water	0.97	0.00	0.00	150.43	3,395,000.00 gal
Canal	Surface water	0.00	0.00	0.00	121.42	3,395,000.00 gal
Application event totals		0.97	0.00	0.00	271.85	
09/18/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Well	Ground water	0.97	0.00	0.00	150.43	3,395,000.00 gal
Canal	Surface water	0.00	0.00	0.00	121.42	3,395,000.00 gal
Application event totals		0.97	0.00	0.00	271.85	
10/16/2023	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
Irrigation Well	Ground water	0.59	0.00	0.00	91.72	2,070,000.00 gal
Canal	Surface water	0.00	0.00	0.00	74.03	2,070,000.00 gal
Application event totals		0.59	0.00	0.00	165.75	

9 - 11/01/2022: Wheat, silage, soft dough

Field name: 9

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	
10/11/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WWS	Process wastewater	99.90	11.78	142.31	805.60	850,550.00 gal
Irrigation Well	Ground water	3.35	0.00	0.00	414.92	9,165,020.00 gal
Application event totals		103.25	11.78	142.31	1,220.52	

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9 - 11/01/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
01/04/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WWS	Process wastewater	48.16	5.68	68.61	388.38	410,050.00 gal
Application event totals		48.16	5.68	68.61	388.38	
02/13/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WWS	Process wastewater	64.12	7.56	91.33	517.03	545,875.00 gal
Irrigation Well	Ground water	2.31	0.00	0.00	357.30	7,680,000.00 gal
Application event totals		66.42	7.56	91.33	874.33	

9 - 06/01/2023: Corn, silage

Field name: 9

Crop: Corn, silage

Plant date: 06/01/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/20/2023	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
WWS	Process wastewater	53.44	3.07	51.00	479.80	688,575.00 gal
Irrigation Well	Ground water	4.57	0.00	0.00	195.14	1,710,000.00 gal
Canal	Surface water	0.00	0.00	0.00	64.21	1,710,000.00 gal
Application event totals		58.01	3.07	51.00	739.16	
06/01/2023	Pipeline	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
30-0-0	Solid commercial fertilizer	24.86	0.00	0.00	0.00	
Application event totals		24.86	0.00	0.00	0.00	

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9 - 06/01/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/23/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WWS	Process wastewater	72.77	4.19	69.44	653.33	937,600.00 gal
Irrigation Well	Ground water	0.49	0.00	0.00	75.37	1,620,000.00 gal
Canal	Surface water	0.00	0.00	0.00	60.84	1,620,000.00 gal
Application event totals		73.25	4.19	69.44	789.53	
07/04/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WWS	Process wastewater	64.50	3.71	61.55	579.08	831,050.00 gal
Irrigation Well	Ground water	0.58	0.00	0.00	71.30	1,575,000.00 gal
Canal	Surface water	0.00	0.00	0.00	59.15	1,575,000.00 gal
Application event totals		65.07	3.71	61.55	709.53	
07/17/2023	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
WWS	Process wastewater	22.75	2.02	25.46	75.84	865,500.00 gal
Irrigation Well	Ground water	0.55	0.00	0.00	85.84	1,845,000.00 gal
Canal	Surface water	0.00	0.00	0.00	69.28	1,845,000.00 gal
Application event totals		23.31	2.02	25.46	230.96	
07/26/2023	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
Irrigation Well	Ground water	5.45	0.00	0.00	176.15	1,305,000.00 gal
Canal	Surface water	0.00	0.00	0.00	49.01	1,305,000.00 gal
Application event totals		5.45	0.00	0.00	225.16	
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
Irrigation Well	Ground water	4.57	0.00	0.00	195.14	1,710,000.00 gal
Canal	Surface water	0.00	0.00	0.00	64.21	1,710,000.00 gal
Application event totals		4.57	0.00	0.00	259.36	

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9 - 06/01/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
08/09/2023	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
Irrigation Well	Ground water	0.49	0.00	0.00	61.12	1,350,000.00 gal
Irrigation Well	Ground water	5.63	0.00	0.00	182.22	1,350,000.00 gal
Application event totals		6.13	0.00	0.00	243.34	
08/18/2023	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
Irrigation Well	Ground water	1.27	0.00	0.00	157.77	3,485,000.00 gal
Canal	Surface water	0.00	0.00	0.00	130.87	3,485,000.00 gal
Application event totals		1.27	0.00	0.00	288.64	
08/28/2023	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
WWS	Process wastewater	19.07	1.70	21.34	63.57	725,500.00 gal
Irrigation Well	Ground water	0.55	0.00	0.00	85.84	1,845,000.00 gal
Canal	Surface water	0.00	0.00	0.00	69.28	1,845,000.00 gal
Application event totals		19.63	1.70	21.34	218.69	
09/04/2023	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
WWS	Process wastewater	21.94	1.95	24.56	73.14	834,750.00 gal
Canal	Surface water	0.00	0.00	0.00	165.61	4,410,000.00 gal
Application event totals		21.94	1.95	24.56	238.75	

A - 11/05/2022: Wheat, silage, soft dough

Field name: A

Crop: Wheat, silage, soft dough

Plant date: 11/05/2022

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

A - 11/05/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
09/27/2022	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Solid Manure	Separator solids	187.62	22.26	64.66	0.00	720.00 ton
Application event totals		187.62	22.26	64.66	0.00	
10/19/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Well	Ground water	0.00	0.00	0.00	193.94	3,984,000.00 gal
Application event totals		0.00	0.00	0.00	193.94	
01/03/2023	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
Irrigation Well	Ground water	0.00	0.00	0.00	204.45	4,200,000.00 gal
Application event totals		0.00	0.00	0.00	204.45	
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
Irrigation Well	Ground water	0.00	0.00	0.00	102.81	2,112,000.00 gal
Application event totals		0.00	0.00	0.00	102.81	
04/22/2023	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
Irrigation Well	Ground water	0.00	0.00	0.00	184.59	3,792,000.00 gal
Application event totals		0.00	0.00	0.00	184.59	
05/04/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Well	Ground water	10.44	0.00	0.00	418.27	3,660,000.00 gal
Application event totals		10.44	0.00	0.00	418.27	

A - 06/09/2023: Corn, silage

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

A - 06/09/2023: Corn, silage

Field name: A

Crop: Corn, silage

Plant date: 06/09/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/30/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WWS	Process wastewater	225.63	12.98	215.31	2,025.78	2,616,505.00 gal
Irrigation Well	Ground water	7.57	0.00	0.00	303.41	2,655,000.00 gal
Canal	Surface water	0.00	0.00	0.00	110.78	2,655,000.00 gal
Application event totals		233.20	12.98	215.31	2,439.97	
06/09/2023	Sidedress	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
30-0-0	Solid commercial fertilizer	24.86	0.00	0.00	0.00	
Application event totals		24.86	0.00	0.00	0.00	
07/07/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Well	Ground water	5.88	0.00	0.00	235.87	2,064,000.00 gal
Irrigation Well	Ground water	0.00	0.00	0.00	100.47	2,064,000.00 gal
Application event totals		5.88	0.00	0.00	336.35	
07/18/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Well	Ground water	8.85	0.00	0.00	354.84	3,105,000.00 gal
Canal	Surface water	0.00	0.00	0.00	129.56	3,105,000.00 gal
Application event totals		8.85	0.00	0.00	484.40	
07/27/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	176.25	4,224,000.00 gal
Application event totals		0.00	0.00	0.00	176.25	

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A - 06/09/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
08/04/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	172.57	4,136,000.00 gal
Application event totals		0.00	0.00	0.00	172.57	
08/16/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	130.52	3,128,000.00 gal
Application event totals		0.00	0.00	0.00	130.52	
08/25/2023	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	146.20	3,504,000.00 gal
Application event totals		0.00	0.00	0.00	146.20	
09/04/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Well	Ground water	0.00	0.00	0.00	86.65	1,780,000.00 gal
Canal	Surface water	0.00	0.00	0.00	74.27	1,780,000.00 gal
Application event totals		0.00	0.00	0.00	160.92	
09/12/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Well	Ground water	0.00	0.00	0.00	70.10	1,440,000.00 gal
Canal	Surface water	0.00	0.00	0.00	60.08	1,440,000.00 gal
Application event totals		0.00	0.00	0.00	130.18	

B - 11/05/2022: Wheat, silage, soft dough

Field name: B

Crop: Wheat, silage, soft dough

Plant date: 11/05/2022

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

B - 11/05/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
09/28/2022	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Solid Manure	Separator solids	187.62	22.26	64.66	0.00	720.00 ton
Application event totals		187.62	22.26	64.66	0.00	
10/17/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Well	Ground water	0.00	0.00	0.00	112.16	2,304,000.00 gal
Application event totals		0.00	0.00	0.00	112.16	
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
Irrigation Well	Ground water	0.00	0.00	0.00	121.50	2,496,000.00 gal
Application event totals		0.00	0.00	0.00	121.50	
03/28/2023	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
Irrigation Well	Ground water	3.68	0.00	0.00	147.42	1,290,000.00 gal
Application event totals		3.68	0.00	0.00	147.42	
04/20/2023	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
Irrigation Well	Ground water	0.00	0.00	0.00	166.48	3,420,000.00 gal
Canal	Surface water	0.00	0.00	0.00	142.70	3,420,000.00 gal
Application event totals		0.00	0.00	0.00	309.18	
05/06/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Well	Ground water	8.08	0.00	0.00	323.98	2,835,000.00 gal
Canal	Surface water	0.00	0.00	0.00	118.29	2,835,000.00 gal
Application event totals		8.08	0.00	0.00	442.27	

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B - 06/07/2023: Corn, silage

Field name: B

Crop: Corn, silage

Plant date: 06/07/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/27/2023	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
WWS	Process wastewater	129.35	7.44	123.44	1,161.35	1,500,000.00 gal
Irrigation Well	Ground water	0.91	0.00	0.00	113.18	2,250,000.00 gal
Canal	Surface water	0.00	0.00	0.00	93.88	2,250,000.00 gal
Application event totals		130.26	7.44	123.44	1,368.41	
06/07/2023	Sidedress	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
30-0-0	Solid commercial fertilizer	24.86	0.00	0.00	0.00	
Application event totals		24.86	0.00	0.00	0.00	
07/06/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Well	Ground water	1.24	0.00	0.00	153.92	3,060,000.00 gal
Canal	Surface water	0.00	0.00	0.00	127.68	3,060,000.00 gal
Application event totals		1.24	0.00	0.00	281.60	
07/18/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Well	Ground water	0.00	0.00	0.00	96.38	1,980,000.00 gal
Canal	Surface water	0.00	0.00	0.00	82.62	1,980,000.00 gal
Application event totals		0.00	0.00	0.00	179.00	

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

B - 06/07/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
07/28/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WWS	Process wastewater	108.65	6.25	103.69	975.53	1,260,000.00 gal
Irrigation Well	Ground water	0.00	0.00	0.00	49.07	1,008,000.00 gal
Irrigation Well	Ground water	2.87	0.00	0.00	115.19	1,008,000.00 gal
Application event totals		111.53	6.25	103.69	1,139.79	
08/06/2023	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
Irrigation Well	Ground water	0.97	0.00	0.00	119.97	2,385,000.00 gal
Canal	Surface water	0.00	0.00	0.00	99.51	2,385,000.00 gal
Application event totals		0.97	0.00	0.00	219.48	
08/11/2023	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	188.26	4,512,000.00 gal
Application event totals		0.00	0.00	0.00	188.26	
08/23/2023	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
Irrigation Well	Ground water	5.90	0.00	0.00	236.56	2,070,000.00 gal
Canal	Surface water	0.00	0.00	0.00	86.37	2,070,000.00 gal
Application event totals		5.90	0.00	0.00	322.93	
09/02/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Well	Ground water	5.26	0.00	0.00	210.85	1,845,000.00 gal
Canal	Surface water	0.00	0.00	0.00	76.98	1,845,000.00 gal
Application event totals		5.26	0.00	0.00	287.83	

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B - 06/07/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
09/12/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Well	Ground water	0.00	0.00	0.00	25.70	528,000.00 gal
Irrigation Well	Ground water	1.51	0.00	0.00	60.34	528,000.00 gal
Application event totals		1.51	0.00	0.00	86.04	

C - 11/04/2022: Wheat, silage, soft dough

Field name: C

Crop:	Wheat, silage, soft dough	Plant date:	11/04/2022			
Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
10/15/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WWS	Process wastewater	45.78	5.40	65.22	369.19	360,555.00 gal
Irrigation Well	Ground water	5.48	0.00	0.00	219.71	1,976,000.00 gal
Application event totals		51.26	5.40	65.22	588.91	
01/10/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WWS	Process wastewater	54.63	6.44	77.83	440.56	430,250.00 gal
Application event totals		54.63	6.44	77.83	440.56	
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
WWS	Process wastewater	28.67	3.38	40.84	231.18	225,775.00 gal
Irrigation Well	Ground water	3.38	0.00	0.00	135.65	1,220,000.00 gal
Application event totals		32.05	3.38	40.84	366.84	

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C - 11/04/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
03/25/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WWS	Process wastewater	53.99	6.37	76.90	435.33	425,150.00 gal
Irrigation Well	Ground water	3.88	0.00	0.00	155.67	1,400,000.00 gal
Application event totals		57.87	6.37	76.90	591.00	
04/17/2023	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
WWS	Process wastewater	27.71	1.59	26.44	248.78	330,255.00 gal
Irrigation Well	Ground water	0.00	0.00	0.00	120.78	2,550,000.00 gal
Irrigation Well	Ground water	7.07	0.00	0.00	283.54	2,550,000.00 gal
Application event totals		34.78	1.59	26.44	653.10	
05/02/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Well	Ground water	8.06	0.00	0.00	323.01	2,905,000.00 gal
Canal	Surface water	0.00	0.00	0.00	199.13	4,905,000.00 gal
Application event totals		8.06	0.00	0.00	522.14	

C - 06/06/2023: Corn, silage

Field name: C

Crop: Corn, silage

Plant date: 06/06/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/25/2023	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
WWS	Process wastewater	78.07	4.49	74.51	700.99	930,550.00 gal
Irrigation Well	Ground water	0.00	0.00	0.00	108.70	2,295,000.00 gal
Canal	Surface water	0.00	0.00	0.00	93.17	2,295,000.00 gal
Application event totals		78.07	4.49	74.51	902.86	

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C - 06/06/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/06/2023	Sidedress	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
30-0-0	Solid commercial fertilizer	24.86	0.00	0.00	0.00	
Application event totals		24.86	0.00	0.00	0.00	
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
Irrigation Well	Ground water	0.00	0.00	0.00	134.28	2,835,000.00 gal
Canal	Surface water	0.00	0.00	0.00	115.09	2,835,000.00 gal
Application event totals		0.00	0.00	0.00	249.37	
07/16/2023	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
WWS	Process wastewater	75.11	4.32	71.67	674.34	895,175.00 gal
Irrigation Well	Ground water	0.00	0.00	0.00	91.65	1,935,000.00 gal
Canal	Surface water	0.00	0.00	0.00	78.56	1,935,000.00 gal
Application event totals		75.11	4.32	71.67	844.54	
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
Canal	Surface water	0.00	0.00	0.00	192.92	4,752,000.00 gal
Application event totals		0.00	0.00	0.00	192.92	
08/04/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Well	Ground water	0.00	0.00	0.00	102.31	2,160,000.00 gal
Canal	Surface water	0.00	0.00	0.00	87.69	2,160,000.00 gal
Application event totals		0.00	0.00	0.00	190.00	

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C - 06/06/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
08/15/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WWS	Process wastewater	102.79	5.91	98.09	922.89	1,225,125.00 gal
Irrigation Well	Ground water	0.00	0.00	0.00	61.38	1,296,000.00 gal
Irrigation Well	Ground water	3.60	0.00	0.00	144.10	1,296,000.00 gal
Application event totals		106.38	5.91	98.09	1,128.38	
08/25/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Well	Ground water	0.00	0.00	0.00	100.17	2,115,000.00 gal
Canal	Surface water	0.00	0.00	0.00	85.86	2,115,000.00 gal
Application event totals		0.00	0.00	0.00	186.04	
09/04/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Well	Ground water	0.00	0.00	0.00	123.62	2,610,000.00 gal
Canal	Surface water	0.00	0.00	0.00	105.96	2,610,000.00 gal
Application event totals		0.00	0.00	0.00	229.58	

D - 10/31/2022: Wheat, silage, soft dough

Field name: D

Crop: Wheat, silage, soft dough

Plant date: 10/31/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
09/26/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WWS	Process wastewater	72.80	8.59	103.70	587.03	588,795.00 gal
Irrigation Well	Ground water	0.99	0.00	0.00	122.95	2,580,000.00 gal
Irrigation Well	Ground water	0.00	0.00	0.00	118.98	2,580,000.00 gal
Application event totals		73.79	8.59	103.70	828.96	

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D - 10/31/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
01/11/2023	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
WWS	Process wastewater	52.01	6.13	74.09	419.39	420,650.00 gal
Application event totals		52.01	6.13	74.09	419.39	
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
WWS	Process wastewater	64.39	7.59	91.72	519.23	520,785.00 gal
Irrigation Well	Ground water	0.00	0.00	0.00	123.96	2,688,000.00 gal
Application event totals		64.39	7.59	91.72	643.19	
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
WWS	Process wastewater	20.91	1.20	19.96	187.76	255,980.00 gal
Irrigation Well	Ground water	0.00	0.00	0.00	183.32	3,975,000.00 gal
Irrigation Well	Ground water	10.74	0.00	0.00	430.35	3,975,000.00 gal
Application event totals		31.65	1.20	19.96	801.43	

D - 05/28/2023: Corn, silage

Field name: D

Crop: Corn, silage

Plant date: 05/28/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/15/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WWS	Process wastewater	78.47	4.51	74.88	704.55	960,555.00 gal
Irrigation Well	Ground water	0.00	0.00	0.00	57.55	1,248,000.00 gal
Irrigation Well	Ground water	3.37	0.00	0.00	135.12	1,248,000.00 gal
Application event totals		81.84	4.51	74.88	897.22	

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D - 05/28/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/28/2023	Sidedress	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
30-0-0	Solid commercial fertilizer	24.86	0.00	0.00	0.00	
Application event totals		24.86	0.00	0.00	0.00	
06/16/2023	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
Irrigation Well	Ground water	0.00	0.00	0.00	170.17	3,690,000.00 gal
Canal	Surface water	0.00	0.00	0.00	145.86	3,690,000.00 gal
Application event totals		0.00	0.00	0.00	316.03	
06/27/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WWS	Process wastewater	82.16	4.73	78.41	737.70	1,005,750.00 gal
Irrigation Well	Ground water	4.86	0.00	0.00	194.88	1,800,000.00 gal
Canal	Surface water	0.00	0.00	0.00	71.15	1,800,000.00 gal
Application event totals		87.02	4.73	78.41	1,003.73	
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
Canal	Surface water	0.00	0.00	0.00	151.79	3,840,000.00 gal
Application event totals		0.00	0.00	0.00	151.79	
07/23/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Well	Ground water	9.49	0.00	0.00	306.90	2,160,000.00 gal
Application event totals		9.49	0.00	0.00	306.90	

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D - 05/28/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
08/01/2023	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
WWS	Process wastewater	74.38	4.28	70.98	667.85	910,525.00 gal
Irrigation Well	Ground water	0.00	0.00	0.00	145.27	3,150,000.00 gal
Canal	Surface water	0.00	0.00	0.00	124.52	3,150,000.00 gal
Application event totals		74.38	4.28	70.98	937.64	
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
Irrigation Well	Ground water	0.00	0.00	0.00	70.56	1,530,000.00 gal
Canal	Surface water	0.00	0.00	0.00	60.48	1,530,000.00 gal
Application event totals		0.00	0.00	0.00	131.04	
08/20/2023	Pipeline	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Well	Ground water	0.00	0.00	0.00	74.71	1,620,000.00 gal
Canal	Surface water	0.00	0.00	0.00	64.04	1,620,000.00 gal
Application event totals		0.00	0.00	0.00	138.75	
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
Irrigation Well	Ground water	8.27	0.00	0.00	331.29	3,060,000.00 gal
Canal	Surface water	0.00	0.00	0.00	120.96	3,060,000.00 gal
Application event totals		8.27	0.00	0.00	452.25	

E - 11/04/2022: Wheat, silage, soft dough

Field name: E

Crop: Wheat, silage, soft dough

Plant date: 11/04/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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E - 11/04/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
09/19/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WWS	Process wastewater	65.22	7.69	92.90	525.91	555,255.00 gal
Irrigation Well	Ground water	4.62	0.00	0.00	185.13	1,800,000.00 gal
Irrigation Well	Ground water	4.62	0.00	0.00	185.13	1,800,000.00 gal
Application event totals		74.46	7.69	92.90	896.18	
01/09/2023	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
WWS	Process wastewater	67.92	8.01	96.75	547.69	578,250.00 gal
Irrigation Well	Ground water	9.36	0.00	0.00	375.20	3,648,000.00 gal
Application event totals		77.28	8.01	96.75	922.90	
02/14/2023	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
WWS	Process wastewater	43.57	5.14	62.07	351.35	370,950.00 gal
Irrigation Well	Ground water	4.54	0.00	0.00	182.05	1,770,000.00 gal
Application event totals		48.11	5.14	62.07	533.40	
04/12/2023	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
WWS	Process wastewater	20.59	1.18	19.65	184.83	265,255.00 gal
Irrigation Well	Ground water	0.00	0.00	0.00	145.45	3,320,000.00 gal
Irrigation Well	Ground water	8.52	0.00	0.00	341.47	3,320,000.00 gal
Application event totals		29.11	1.18	19.65	671.75	

E - 05/30/2023: Corn, silage

Field name: E

Crop: Corn, silage

Plant date: 05/30/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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E - 05/30/2023: 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
WWS	Process wastewater	69.11	3.98	65.95	620.51	890,505.00 gal
Irrigation Well	Ground water	0.00	0.00	0.00	104.49	2,385,000.00 gal
Canal	Surface water	0.00	0.00	0.00	89.56	2,385,000.00 gal
Application event totals		69.11	3.98	65.95	814.56	
05/30/2023	Sidedress	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
30-0-0	Solid commercial fertilizer	24.86	0.00	0.00	0.00	
Application event totals		24.86	0.00	0.00	0.00	
06/20/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Well	Ground water	0.00	0.00	0.00	114.35	2,610,000.00 gal
Canal	Surface water	0.00	0.00	0.00	98.01	2,610,000.00 gal
Application event totals		0.00	0.00	0.00	212.36	
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
WWS	Process wastewater	73.03	4.20	69.70	655.73	941,050.00 gal
Irrigation Well	Ground water	0.00	0.00	0.00	92.66	2,115,000.00 gal
Canal	Surface water	0.00	0.00	0.00	79.42	2,115,000.00 gal
Application event totals		73.03	4.20	69.70	827.82	
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
WWS	Process wastewater	88.53	5.09	84.48	794.83	1,140,670.00 gal
Irrigation Well	Ground water	0.00	0.00	0.00	92.66	2,115,000.00 gal
Canal	Surface water	0.00	0.00	0.00	79.42	2,115,000.00 gal
Application event totals		88.53	5.09	84.48	966.91	

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E - 05/30/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
07/25/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Well	Ground water	0.00	0.00	0.00	86.75	1,980,000.00 gal
Canal	Surface water	0.00	0.00	0.00	74.35	1,980,000.00 gal
Application event totals		0.00	0.00	0.00	161.10	
08/02/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WWS	Process wastewater	18.16	1.61	20.32	60.53	690,770.00 gal
Irrigation Well	Ground water	0.00	0.00	0.00	65.06	1,485,000.00 gal
Canal	Surface water	0.00	0.00	0.00	55.77	1,485,000.00 gal
Application event totals		18.16	1.61	20.32	181.35	
08/12/2023	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
Irrigation Well	Ground water	0.00	0.00	0.00	47.32	1,080,000.00 gal
Canal	Surface water	0.00	0.00	0.00	40.56	1,080,000.00 gal
Application event totals		0.00	0.00	0.00	87.87	
08/20/2023	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
Irrigation Well	Ground water	9.24	0.00	0.00	370.27	3,600,000.00 gal
Canal	Surface water	0.00	0.00	0.00	135.19	3,600,000.00 gal
Application event totals		9.24	0.00	0.00	505.46	
08/31/2023	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
Irrigation Well	Ground water	0.00	0.00	0.00	88.72	2,025,000.00 gal
Canal	Surface water	0.00	0.00	0.00	76.04	2,025,000.00 gal
Application event totals		0.00	0.00	0.00	164.76	

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F - 11/05/2022: Wheat, silage, soft dough

Field name: F

Crop: Wheat, silage, soft dough

Plant date: 11/05/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
09/13/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WWS	Process wastewater	37.84	4.46	53.90	305.12	225,500.00 gal
Irrigation Well	Ground water	0.00	0.00	0.00	67.59	1,080,000.00 gal
Irrigation Well	Ground water	3.96	0.00	0.00	158.69	1,080,000.00 gal
Application event totals		41.80	4.46	53.90	531.40	
01/06/2023	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
WWS	Process wastewater	35.07	4.14	49.96	282.79	209,000.00 gal
Application event totals		35.07	4.14	49.96	282.79	
02/10/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WWS	Process wastewater	56.76	6.69	80.85	457.69	338,255.00 gal
Irrigation Well	Ground water	9.02	0.00	0.00	361.45	2,460,000.00 gal
Application event totals		65.78	6.69	80.85	819.14	
03/23/2023	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
WWS	Process wastewater	21.00	2.48	29.92	169.34	125,155.00 gal
Irrigation Well	Ground water	4.07	0.00	0.00	163.09	1,110,000.00 gal
Application event totals		25.07	2.48	29.92	332.44	
04/14/2023	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
WWS	Process wastewater	51.06	2.94	48.72	458.40	460,500.00 gal
Irrigation Well	Ground water	0.00	0.00	0.00	156.22	2,496,000.00 gal
Application event totals		51.06	2.94	48.72	614.62	

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F - 11/05/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/02/2023	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
Irrigation Well	Ground water	0.00	0.00	0.00	98.58	1,575,000.00 gal
Canal	Surface water	0.00	0.00	0.00	84.49	1,575,000.00 gal
Application event totals		0.00	0.00	0.00	183.07	

F - 06/13/2023: Corn, silage

Field name: F

Crop: Corn, silage

Plant date: 06/13/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/01/2023	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
WWS	Process wastewater	69.37	3.99	66.20	622.80	625,650.00 gal
Irrigation Well	Ground water	0.00	0.00	0.00	122.67	1,960,000.00 gal
Irrigation Well	Ground water	7.19	0.00	0.00	287.99	1,960,000.00 gal
Application event totals		76.55	3.99	66.20	1,033.45	
06/13/2023	Sidedress	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
30-0-0	Solid commercial fertilizer	24.86	0.00	0.00	0.00	
Application event totals		24.86	0.00	0.00	0.00	
07/12/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Well	Ground water	0.00	0.00	0.00	109.84	1,755,000.00 gal
Canal	Surface water	0.00	0.00	0.00	94.15	1,755,000.00 gal
Application event totals		0.00	0.00	0.00	203.99	

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F - 06/13/2023: 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
Irrigation Well	Ground water	0.00	0.00	0.00	184.32	2,945,000.00 gal
Canal	Surface water	0.00	0.00	0.00	157.99	2,945,000.00 gal
Application event totals		0.00	0.00	0.00	342.31	
07/30/2023	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
WWS	Process wastewater	75.41	4.34	71.97	677.10	680,200.00 gal
Irrigation Well	Ground water	0.00	0.00	0.00	95.76	1,530,000.00 gal
Canal	Surface water	0.00	0.00	0.00	82.08	1,530,000.00 gal
Application event totals		75.41	4.34	71.97	854.94	
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
WWS	Process wastewater	76.50	4.40	73.00	686.85	690,000.00 gal
Irrigation Well	Ground water	0.00	0.00	0.00	92.94	1,485,000.00 gal
Canal	Surface water	0.00	0.00	0.00	79.66	1,485,000.00 gal
Application event totals		76.50	4.40	73.00	859.46	
08/17/2023	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
Irrigation Well	Ground water	0.00	0.00	0.00	76.04	1,215,000.00 gal
Canal	Surface water	0.00	0.00	0.00	65.18	1,215,000.00 gal
Application event totals		0.00	0.00	0.00	141.22	
08/28/2023	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
WWS	Process wastewater	34.17	3.04	38.24	113.91	910,000.00 gal
Irrigation Well	Ground water	0.00	0.00	0.00	104.21	1,665,000.00 gal
Canal	Surface water	0.00	0.00	0.00	89.32	1,665,000.00 gal
Application event totals		34.17	3.04	38.24	307.44	

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F - 06/13/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
09/07/2023	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
Irrigation Well	Ground water	0.00	0.00	0.00	101.64	1,624,000.00 gal
Irrigation Well	Ground water	5.95	0.00	0.00	238.62	1,624,000.00 gal
Application event totals		5.95	0.00	0.00	340.26	

G - 11/04/2022: Wheat, silage, soft dough

Field name: G

Crop:	Wheat, silage, soft dough	Plant date:	11/04/2022			
Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
09/12/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WWS	Process wastewater	32.35	3.81	46.08	260.84	144,580.00 gal
Irrigation Well	Ground water	0.00	0.00	0.00	56.08	672,000.00 gal
Irrigation Well	Ground water	3.28	0.00	0.00	131.65	672,000.00 gal
Application event totals		35.63	3.81	46.08	448.57	
01/05/2023	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
WWS	Process wastewater	56.11	6.62	79.93	452.47	250,800.00 gal
Application event totals		56.11	6.62	79.93	452.47	
02/09/2023	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
WWS	Process wastewater	41.31	4.87	58.84	333.08	184,625.00 gal
Irrigation Well	Ground water	3.52	0.00	0.00	141.05	720,000.00 gal
Application event totals		44.82	4.87	58.84	474.14	

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G - 11/04/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
03/21/2023	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
WWS	Process wastewater	59.30	6.99	84.47	478.18	265,050.00 gal
Irrigation Well	Ground water	8.06	0.00	0.00	323.25	1,650,000.00 gal
Application event totals		67.36	6.99	84.47	801.43	
04/16/2023	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
WWS	Process wastewater	24.06	1.38	22.96	216.02	162,755.00 gal
Irrigation Well	Ground water	7.23	0.00	0.00	289.95	1,480,000.00 gal
Irrigation Well	Ground water	0.00	0.00	0.00	123.51	1,480,000.00 gal
Application event totals		31.29	1.38	22.96	629.47	
05/01/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Well	Ground water	7.82	0.00	0.00	313.45	1,600,000.00 gal
Irrigation Well	Ground water	0.00	0.00	0.00	133.52	1,600,000.00 gal
Application event totals		7.82	0.00	0.00	446.97	

G - 06/13/2023: Corn, silage

Field name: G

Crop: Corn, silage

Plant date: 06/13/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/01/2023	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
WWS	Process wastewater	241.07	13.87	230.05	2,164.42	1,630,755.00 gal
Irrigation Well	Ground water	0.00	0.00	0.00	153.97	1,845,000.00 gal
Canal	Surface water	0.00	0.00	0.00	131.97	1,845,000.00 gal
Application event totals		241.07	13.87	230.05	2,450.36	

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G - 06/13/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/13/2023	Sidedress	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
30-0-0	Solid commercial fertilizer	24.86	0.00	0.00	0.00	
Application event totals		24.86	0.00	0.00	0.00	
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
Irrigation Well	Ground water	7.92	0.00	0.00	317.37	1,620,000.00 gal
Canal	Surface water	0.00	0.00	0.00	115.88	1,620,000.00 gal
Application event totals		7.92	0.00	0.00	433.25	
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
Irrigation Well	Ground water	9.24	0.00	0.00	370.27	1,890,000.00 gal
Canal	Surface water	0.00	0.00	0.00	135.19	1,890,000.00 gal
Application event totals		9.24	0.00	0.00	505.46	
08/01/2023	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
Irrigation Well	Ground water	0.00	0.00	0.00	86.37	1,035,000.00 gal
Canal	Surface water	0.00	0.00	0.00	74.03	1,035,000.00 gal
Application event totals		0.00	0.00	0.00	160.40	
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
Irrigation Well	Ground water	5.94	0.00	0.00	238.03	1,215,000.00 gal
Canal	Surface water	0.00	0.00	0.00	86.91	1,215,000.00 gal
Application event totals		5.94	0.00	0.00	324.94	

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G - 06/13/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
08/17/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Irrigation Well	Ground water	0.00	0.00	0.00	82.62	990,000.00 gal
Canal	Surface water	0.00	0.00	0.00	70.81	990,000.00 gal
Application event totals		0.00	0.00	0.00	153.43	
08/29/2023	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
Irrigation Well	Ground water	0.00	0.00	0.00	71.00	850,800.00 gal
Canal	Surface water	0.00	0.00	0.00	60.86	850,800.00 gal
Application event totals		0.00	0.00	0.00	131.86	
09/08/2023	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
Irrigation Well	Ground water	0.00	0.00	0.00	82.62	990,000.00 gal
Canal	Surface water	0.00	0.00	0.00	70.81	990,000.00 gal
Application event totals		0.00	0.00	0.00	153.43	

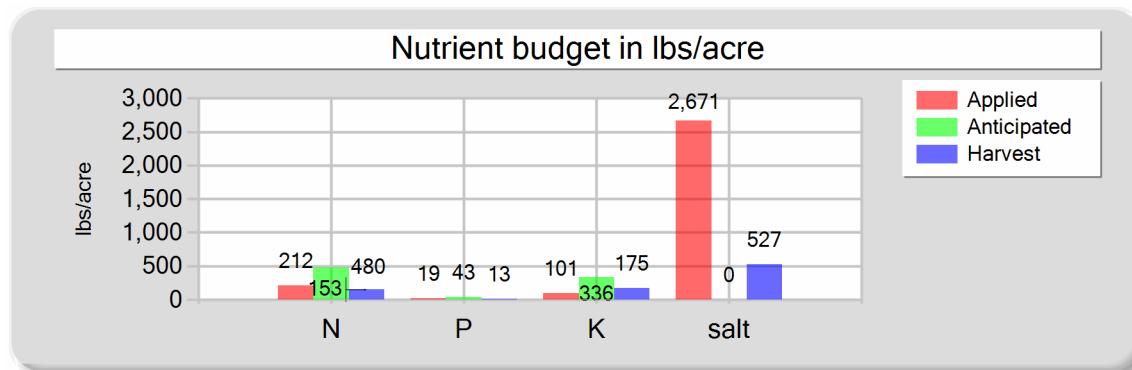
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B. NUTRIENT BUDGET

1 - 01/01/2023: Alfalfa, hay

Field name: 1 Crop: Alfalfa, hay Plant date: 01/01/2023



	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	189.47	18.95	100.72	866.57
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	8.09	0.00	0.00	1,804.19
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	211.56	18.95	100.72	2,670.76
Anticipated crop nutrient removal	480.00	43.20	336.00	0.00
Actual crop nutrient removal	152.56	13.18	174.86	526.91
Nutrient balance	59.00	5.77	-74.14	2,143.85
Applied to removed ratio	1.39	1.44	0.58	5.07

Fresh water applied
45,030,000.00 gallons
1,658.30 acre-inches
38.57 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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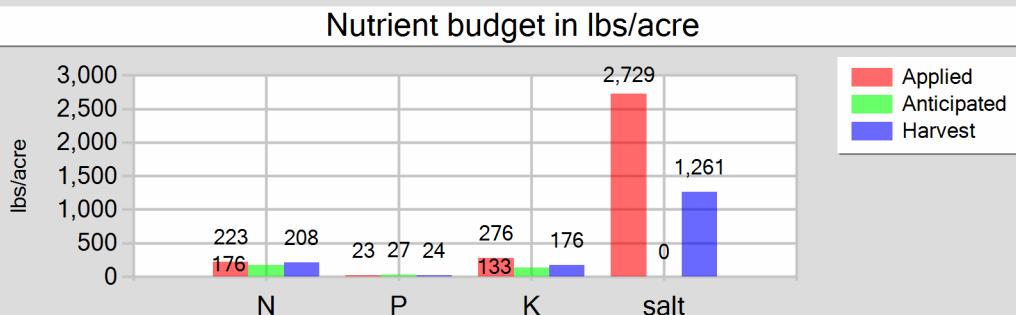
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11 - 11/06/2022: Wheat, silage, soft dough

Field name: 11

Crop: Wheat, silage, soft dough

Plant date: 11/06/2022



	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	193.42	22.81	275.53	1,559.73
Fresh water	22.21	0.00	0.00	1,169.19
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	222.63	22.81	275.53	2,728.91
Anticipated crop nutrient removal	176.00	27.20	132.80	0.00
Actual crop nutrient removal	208.13	24.01	176.11	1,260.78
Nutrient balance	14.51	-1.20	99.42	1,468.14
Applied to removed ratio	1.07	0.95	1.56	2.16

Fresh water applied

18,840,000.00 gallons
693.81 acre-inches
16.14 inches/acre

Process wastewater applied

1,770,250.00 gallons
65.19 acre-inches
1.52 inches/acre

Total harvests for the crop

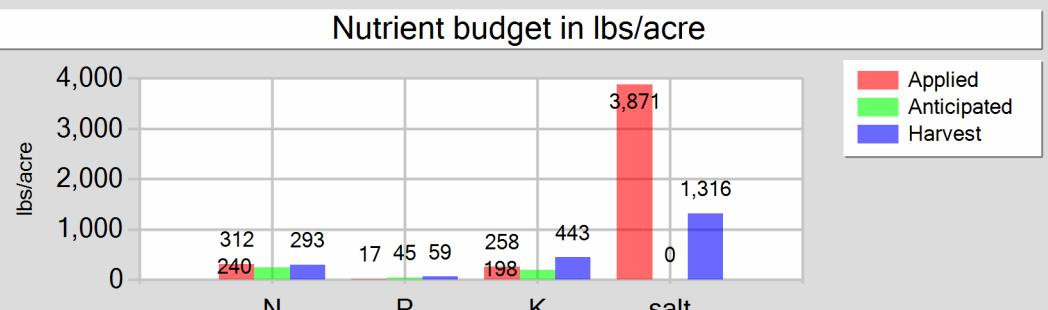
1 harvests

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11 - 05/30/2023: Corn, silage

Field name: 11 Crop: Corn, silage Plant date: 05/30/2023



	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	24.86	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	255.39	17.39	257.90	1,806.97
Fresh water	25.15	0.00	0.00	2,063.54
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	312.40	17.39	257.90	3,870.50
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	292.92	58.58	442.64	1,316.12
Nutrient balance	19.48	-41.19	-184.74	2,554.38
Applied to removed ratio	1.07	0.30	0.58	2.94

Fresh water applied
42,260,000.00 gallons
1,556.29 acre-inches
36.19 inches/acre

Process wastewater applied
5,866,005.00 gallons
216.03 acre-inches
5.02 inches/acre

Total harvests for the crop
1 harvests

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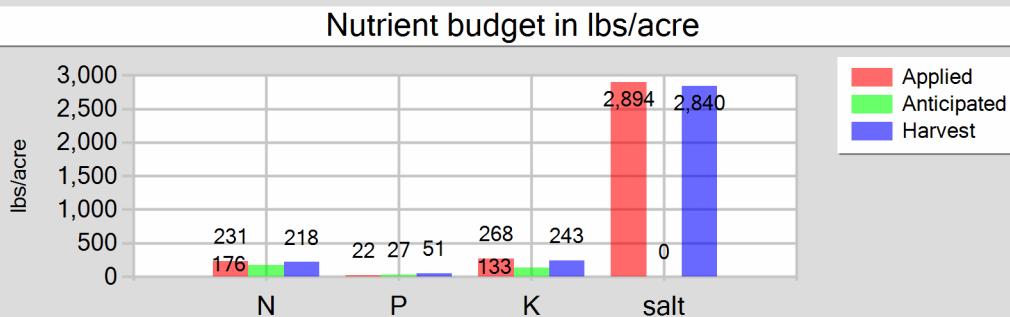
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12 - 11/05/2022: Wheat, silage, soft dough

Field name: 12

Crop: Wheat, silage, soft dough

Plant date: 11/05/2022



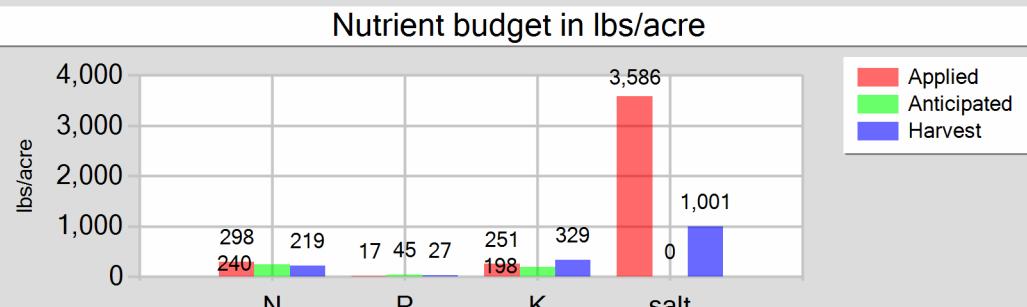
	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	19,236,000.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	708.40 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	16.10 inches/acre
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	196.63	21.68	268.36	1,608.49	Process wastewater applied
Fresh water	27.19	0.00	0.00	1,285.22	1,961,665.00 gallons
Atmospheric deposition	7.00	0.00	0.00	0.00	72.24 acre-inches
Total nutrients applied	230.82	21.68	268.36	2,893.71	1.64 inches/acre
Anticipated crop nutrient removal	176.00	27.20	132.80	0.00	Total harvests for the crop
Actual crop nutrient removal	217.68	50.62	242.99	2,839.94	1 harvests
Nutrient balance	13.15	-28.94	25.37	53.78	
Applied to removed ratio	1.06	0.43	1.10	1.02	

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12 - 06/09/2023: Corn, silage

Field name: 12 Crop: Corn, silage Plant date: 06/09/2023



	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	24.86	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	249.18	16.90	251.28	1,775.15
Fresh water	16.63	0.00	0.00	1,810.94
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	297.68	16.90	251.28	3,586.09
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	219.28	27.41	328.92	1,000.57
Nutrient balance	78.40	-10.51	-77.64	2,585.51
Applied to removed ratio	1.36	0.62	0.76	3.58

Fresh water applied
41,670,000.00 gallons
1,534.56 acre-inches
34.88 inches/acre

Process wastewater applied
5,797,350.00 gallons
213.50 acre-inches
4.85 inches/acre

Total harvests for the crop
1 harvests

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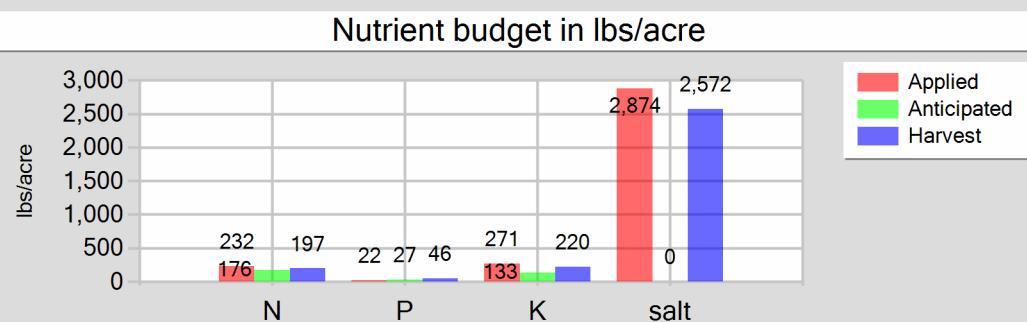
Reporting period 01/01/2023 to 12/31/2023.

13 - 11/05/2022: Wheat, silage, soft dough

Field name: 13

Crop: Wheat, silage, soft dough

Plant date: 11/05/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	18,106,000.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	666.78 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	15.51 inches/acre
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	198.36	21.92	271.11	1,621.88	Process wastewater applied
Fresh water	26.37	0.00	0.00	1,252.48	1,930,035.00 gallons
Atmospheric deposition	7.00	0.00	0.00	0.00	71.08 acre-inches
Total nutrients applied	231.73	21.92	271.11	2,874.35	1.65 inches/acre
Anticipated crop nutrient removal	176.00	27.20	132.80	0.00	
Actual crop nutrient removal	197.11	45.84	220.03	2,571.57	Total harvests for the crop
Nutrient balance	34.63	-23.92	51.08	302.78	1 harvests
Applied to removed ratio	1.18	0.48	1.23	1.12	

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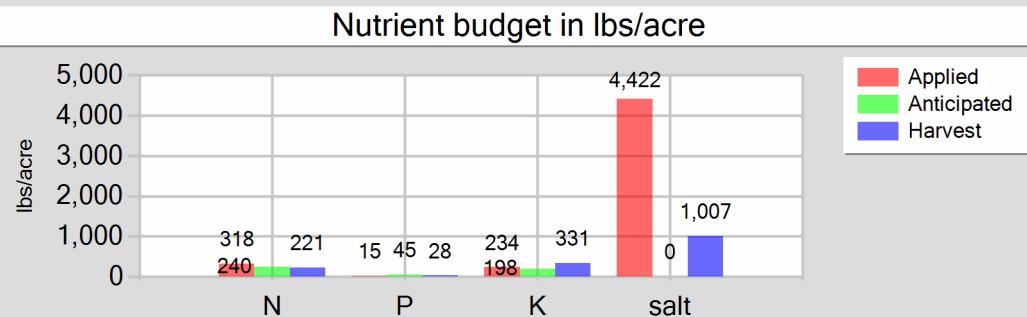
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13 - 06/07/2023: Corn, silage

Field name: 13

Crop: Corn, silage

Plant date: 06/07/2023



	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	24.86	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	236.59	15.23	234.29	1,832.72
Fresh water	49.13	0.00	0.00	2,589.33
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	317.59	15.23	234.29	4,422.06
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	220.69	27.59	331.03	1,007.00
Nutrient balance	96.90	-12.36	-96.74	3,415.05
Applied to removed ratio	1.44	0.55	0.71	4.39

Fresh water applied

41,550,000.00 gallons
1,530.15 acre-inches
35.58 inches/acre

Process wastewater applied

4,673,850.00 gallons
172.12 acre-inches
4.00 inches/acre

Total harvests for the crop

1 harvests

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

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

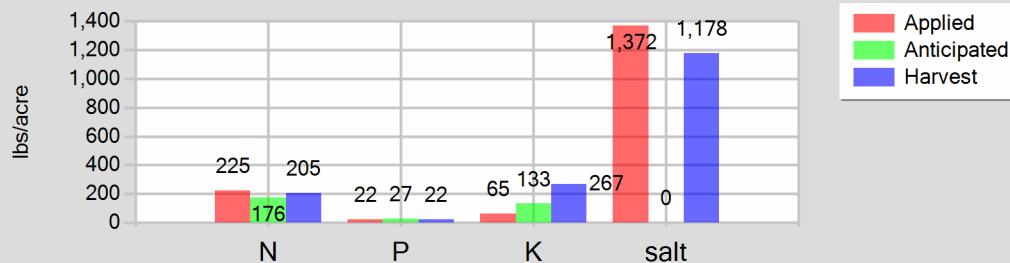
14 - 11/21/2022: Wheat, silage, soft dough

Field name: 14

Crop: Wheat, silage, soft dough

Plant date: 11/21/2022

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	187.62	22.26	64.66	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	30.01	0.00	0.00	1,371.90
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	224.63	22.26	64.66	1,371.90
Anticipated crop nutrient removal	176.00	27.20	132.80	0.00
Actual crop nutrient removal	204.94	21.96	267.16	1,178.42
Nutrient balance	19.69	0.30	-202.50	193.48
Applied to removed ratio	1.10	1.01	0.24	1.16

Fresh water applied

16,430,000.00 gallons
605.06 acre-inches
16.35 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.

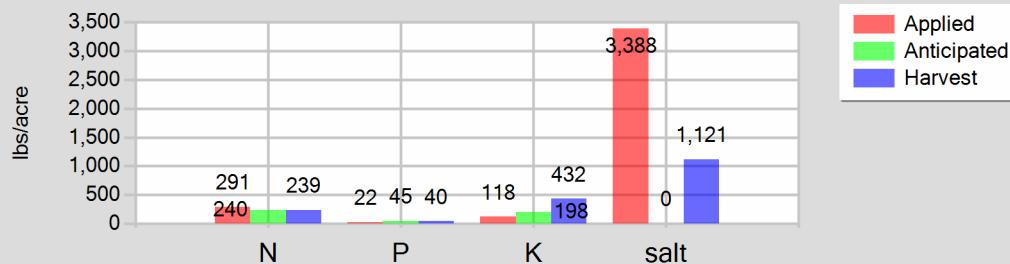
14 - 06/14/2023: Corn, silage

Field name: 14

Crop: Corn, silage

Plant date: 06/14/2023

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	24.86	0.00	0.00	0.00
Dry manure	221.90	22.19	117.96	1,014.90
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	37.53	0.00	0.00	2,372.87
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	291.28	22.19	117.96	3,387.76
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	238.61	39.77	431.76	1,120.97
Nutrient balance	52.68	-17.58	-313.81	2,266.80
Applied to removed ratio	1.22	0.56	0.27	3.02

Fresh water applied

37,090,000.00 gallons
1,365.90 acre-inches
36.92 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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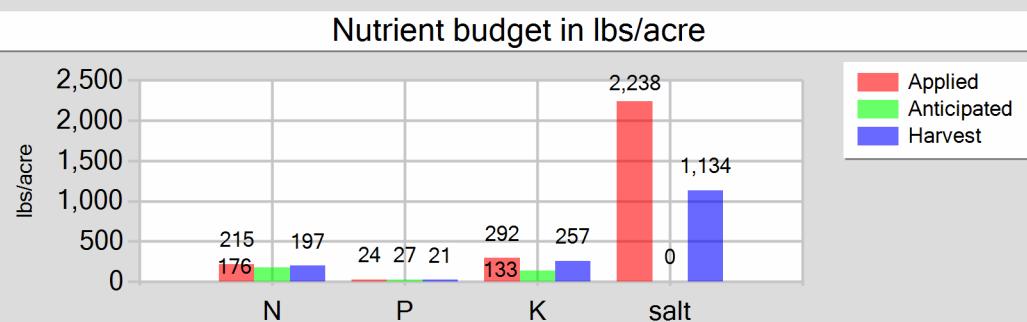
Reporting period 01/01/2023 to 12/31/2023.

16 - 10/31/2022: Wheat, silage, soft dough

Field name: 16

Crop: Wheat, silage, soft dough

Plant date: 10/31/2022



	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	205.06	24.18	292.11	1,653.60
Fresh water	2.57	0.00	0.00	584.01
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	214.64	24.18	292.11	2,237.61
Anticipated crop nutrient removal	176.00	27.20	132.80	0.00
Actual crop nutrient removal	197.26	21.13	257.14	1,134.23
Nutrient balance	17.38	3.05	34.97	1,103.38
Applied to removed ratio	1.09	1.14	1.14	1.97

Fresh water applied

15,160,000.00 gallons
558.29 acre-inches
12.98 inches/acre

Process wastewater applied

1,876,800.00 gallons
69.12 acre-inches
1.61 inches/acre

Total harvests for the crop

1 harvests

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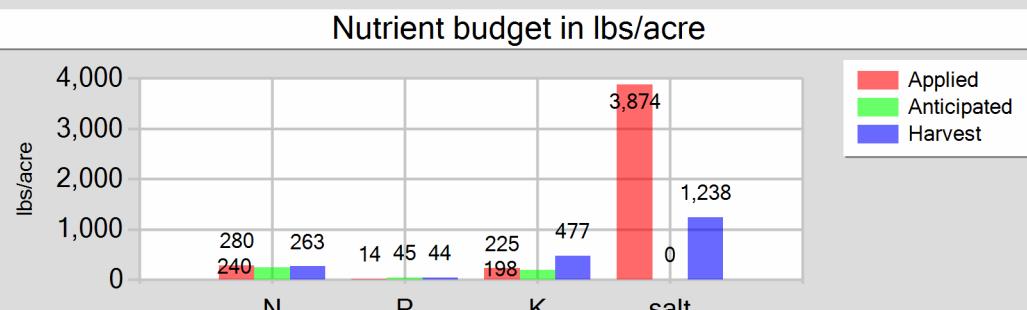
Reporting period 01/01/2023 to 12/31/2023.

16 - 06/02/2023: Corn, silage

Field name: 16

Crop: Corn, silage

Plant date: 06/02/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	24.86	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	236.19	13.59	225.39	2,120.60
Fresh water	11.64	0.00	0.00	1,753.73
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	279.69	13.59	225.39	3,874.33
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	263.41	43.90	476.65	1,237.52
Nutrient balance	16.28	-30.32	-251.26	2,636.81
Applied to removed ratio	1.06	0.31	0.47	3.13

Fresh water applied

42,420,000.00 gallons
1,562.18 acre-inches
36.33 inches/acre

Process wastewater applied

3,271,550.00 gallons
120.48 acre-inches
2.80 inches/acre

Total harvests for the crop

1 harvests

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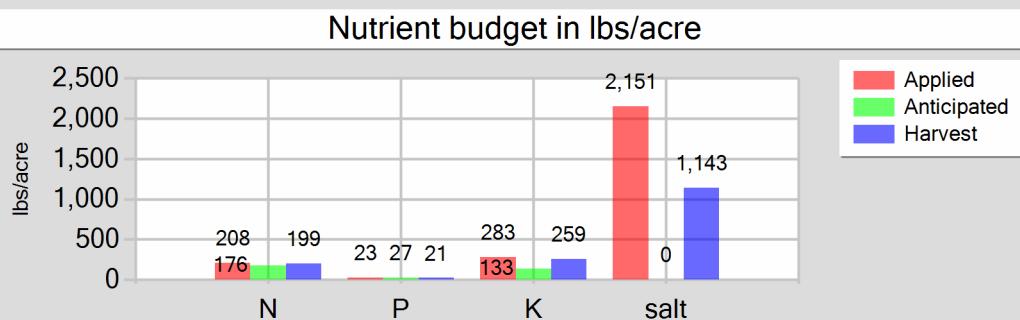
Reporting period 01/01/2023 to 12/31/2023.

17 - 10/31/2022: Wheat, silage, soft dough

Field name: 17

Crop: Wheat, silage, soft dough

Plant date: 10/31/2022



	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	198.38	23.40	282.59	1,599.69
Fresh water	2.14	0.00	0.00	551.19
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	207.51	23.40	282.59	2,150.87
Anticipated crop nutrient removal	176.00	27.20	132.80	0.00
Actual crop nutrient removal	198.82	21.30	259.18	1,143.24
Nutrient balance	8.69	2.09	23.41	1,007.63
Applied to removed ratio	1.04	1.10	1.09	1.88

Fresh water applied

15,160,000.00 gallons
558.29 acre-inches
12.41 inches/acre

Process wastewater applied

1,900,050.00 gallons
69.97 acre-inches
1.55 inches/acre

Total harvests for the crop

1 harvests

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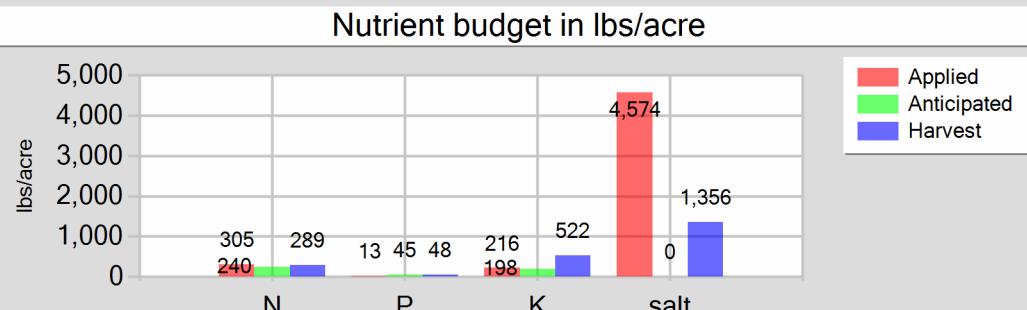
Reporting period 01/01/2023 to 12/31/2023.

17 - 05/27/2023: Corn, silage

Field name: 17

Crop: Corn, silage

Plant date: 05/27/2023



	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	24.86	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	226.50	13.03	216.15	2,033.66
Fresh water	47.05	0.00	0.00	2,540.37
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	305.41	13.03	216.15	4,574.02
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	288.61	48.10	522.24	1,355.89
Nutrient balance	16.80	-35.07	-306.09	3,218.14
Applied to removed ratio	1.06	0.27	0.41	3.37

Fresh water applied

43,420,000.00 gallons
1,599.01 acre-inches
35.53 inches/acre

Process wastewater applied

3,283,350.00 gallons
120.91 acre-inches
2.69 inches/acre

Total harvests for the crop

1 harvests

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

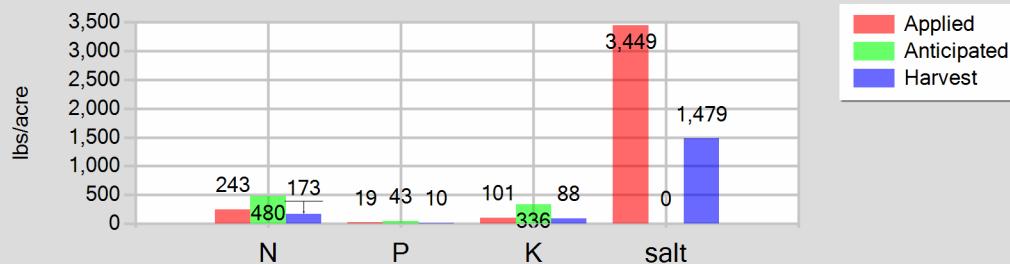
18 - 01/01/2023: Alfalfa, hay

Field name: 18

Crop: Alfalfa, hay

Plant date: 01/01/2023

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	189.47	18.95	100.72	866.57
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	39.37	0.00	0.00	2,582.34
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	242.84	18.95	100.72	3,448.91
Anticipated crop nutrient removal	480.00	43.20	336.00	0.00
Actual crop nutrient removal	172.66	10.46	87.90	1,478.63
Nutrient balance	70.18	8.48	12.82	1,970.29
Applied to removed ratio	1.41	1.81	1.15	2.33

Fresh water applied

50,180,000.00 gallons
1,847.96 acre-inches
41.07 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.

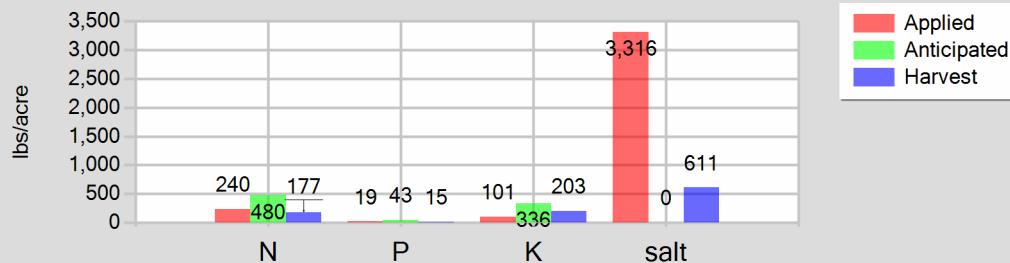
19 - 01/01/2023: Alfalfa, hay

Field name: 19

Crop: Alfalfa, hay

Plant date: 01/01/2023

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	189.47	18.95	100.72	866.57
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	36.45	0.00	0.00	2,449.86
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	239.91	18.95	100.72	3,316.42
Anticipated crop nutrient removal	480.00	43.20	336.00	0.00
Actual crop nutrient removal	176.77	15.27	202.61	610.53
Nutrient balance	63.15	3.68	-101.89	2,705.90
Applied to removed ratio	1.36	1.24	0.50	5.43

Fresh water applied

47,190,000.00 gallons
1,737.85 acre-inches
39.50 inches/acre

Process wastewater applied

0.00 gallons
0.00 acre-inches
0.00 inches/acre

Total harvests for the crop

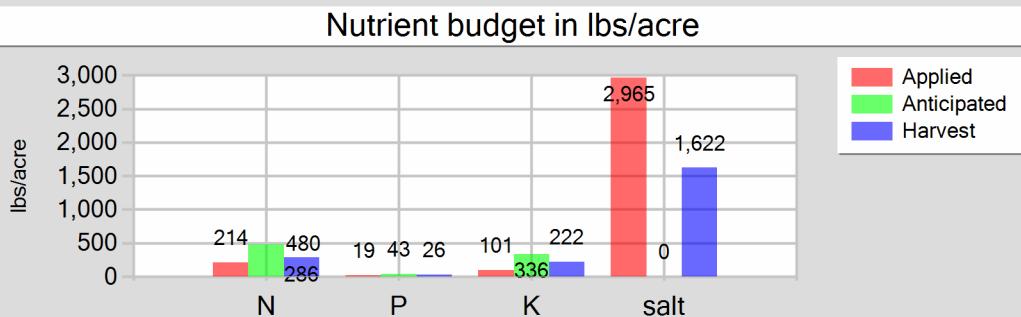
1 harvests

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

2 - 01/01/2023: Alfalfa, hay

Field name: 2 Crop: Alfalfa, hay Plant date: 01/01/2023



	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	189.47	18.95	100.72	866.57
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	10.54	0.00	0.00	2,098.44
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	214.01	18.95	100.72	2,965.01
Anticipated crop nutrient removal	480.00	43.20	336.00	0.00
Actual crop nutrient removal	285.80	26.49	221.67	1,621.76
Nutrient balance	-71.79	-7.54	-120.95	1,343.24
Applied to removed ratio	0.75	0.72	0.45	1.83

Fresh water applied

54,480,000.00 gallons
2,006.31 acre-inches
43.62 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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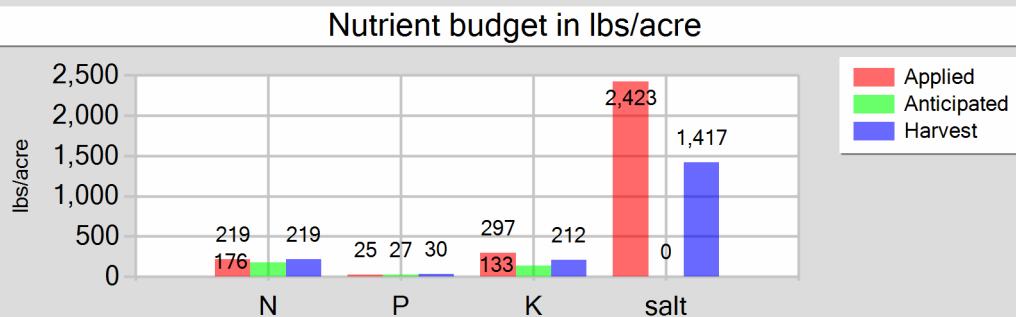
Reporting period 01/01/2023 to 12/31/2023.

20 - 11/01/2022: Wheat, silage, soft dough

Field name: 20

Crop: Wheat, silage, soft dough

Plant date: 11/01/2022



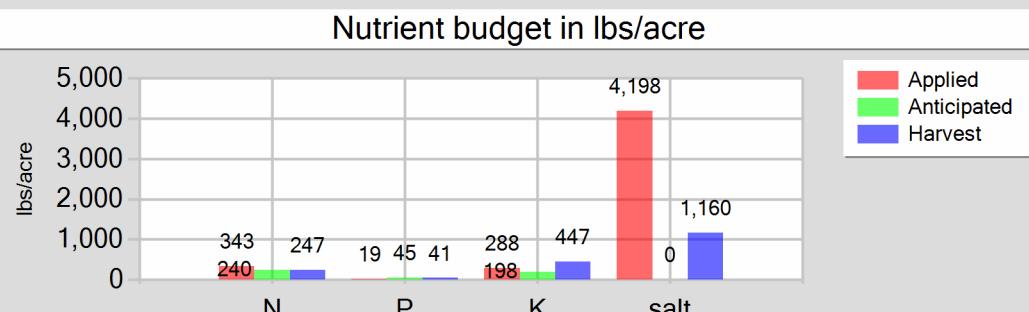
	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	16,780,000.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	617.95 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	16.26 inches/acre
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	208.27	24.56	296.68	1,679.46	Process wastewater applied
Fresh water	3.78	0.00	0.00	743.25	1,684,500.00 gallons
Atmospheric deposition	7.00	0.00	0.00	0.00	62.03 acre-inches
Total nutrients applied	219.05	24.56	296.68	2,422.71	1.63 inches/acre
Anticipated crop nutrient removal	176.00	27.20	132.80	0.00	
Actual crop nutrient removal	219.08	30.22	211.52	1,416.83	Total harvests for the crop
Nutrient balance	-0.03	-5.65	85.16	1,005.88	1 harvests
Applied to removed ratio	1.00	0.81	1.40	1.71	

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

20 - 05/31/2023: Corn, silage

Field name: 20 Crop: Corn, silage Plant date: 05/31/2023



	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	24.86	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	290.74	18.81	288.39	2,235.50
Fresh water	20.78	0.00	0.00	1,962.87
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	343.37	18.81	288.39	4,198.37
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	246.90	41.15	446.77	1,159.93
Nutrient balance	96.48	-22.34	-158.38	3,038.44
Applied to removed ratio	1.39	0.46	0.65	3.62

Fresh water applied
37,830,000.00 gallons
1,393.15 acre-inches
36.66 inches/acre

Process wastewater applied
5,146,000.00 gallons
189.51 acre-inches
4.99 inches/acre

Total harvests for the crop
1 harvests

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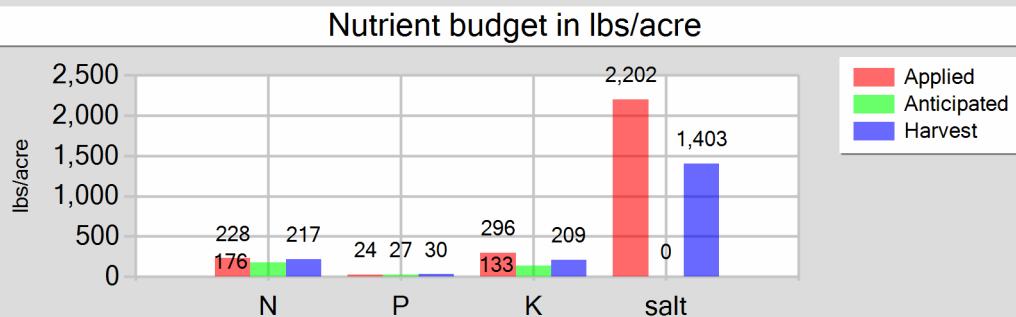
Reporting period 01/01/2023 to 12/31/2023.

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

Field name: 21

Crop: Wheat, silage, soft dough

Plant date: 11/01/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
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	207.47	24.47	295.54	1,673.00
Fresh water	13.31	0.00	0.00	528.74
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	227.78	24.47	295.54	2,201.74
Anticipated crop nutrient removal	176.00	27.20	132.80	0.00
Actual crop nutrient removal	216.92	29.92	209.44	1,402.87
Nutrient balance	10.86	-5.45	86.10	798.86
Applied to removed ratio	1.05	0.82	1.41	1.57

Fresh water applied

2,640,000.00 gallons
97.22 acre-inches
5.40 inches/acre

Process wastewater applied

794,850.00 gallons
29.27 acre-inches
1.63 inches/acre

Total harvests for the crop

1 harvests

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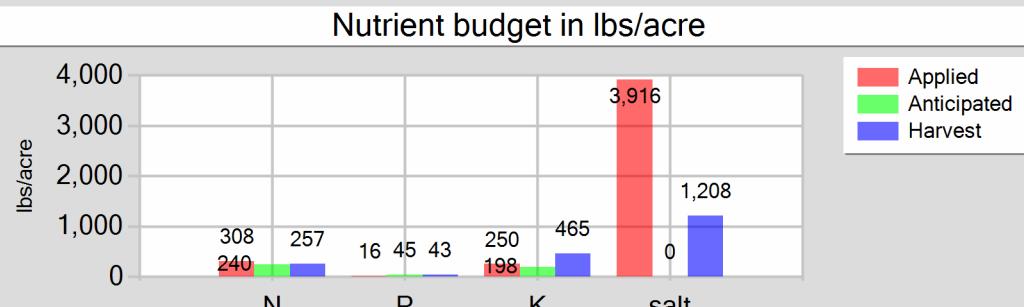
Reporting period 01/01/2023 to 12/31/2023.

21 - 05/29/2023: Corn, silage

Field name: 21

Crop: Corn, silage

Plant date: 05/29/2023



	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	24.86	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	251.52	16.33	249.81	1,923.20
Fresh water	24.43	0.00	0.00	1,993.21
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	307.81	16.33	249.81	3,916.41
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	257.16	42.86	465.34	1,208.14
Nutrient balance	50.65	-26.53	-215.53	2,708.26
Applied to removed ratio	1.20	0.38	0.54	3.24

Fresh water applied

17,130,000.00 gallons
630.84 acre-inches
35.05 inches/acre

Process wastewater applied

2,130,420.00 gallons
78.46 acre-inches
4.36 inches/acre

Total harvests for the crop

1 harvests

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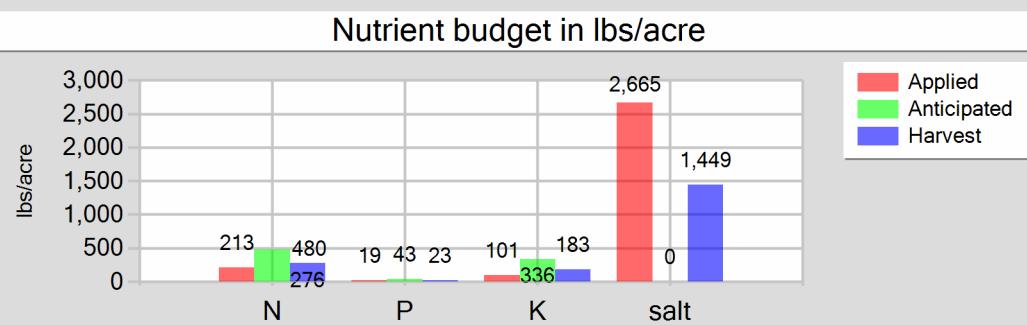
Reporting period 01/01/2023 to 12/31/2023.

3 - 01/01/2023: Alfalfa, hay

Field name: 3

Crop: Alfalfa, hay

Plant date: 01/01/2023



	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	189.47	18.95	100.72	866.57
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	9.22	0.00	0.00	1,797.95
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	212.68	18.95	100.72	2,664.52
Anticipated crop nutrient removal	480.00	43.20	336.00	0.00
Actual crop nutrient removal	276.13	23.01	182.73	1,448.85
Nutrient balance	-63.44	-4.06	-82.01	1,215.66
Applied to removed ratio	0.77	0.82	0.55	1.84

Fresh water applied

41,300,000.00 gallons
1,520.94 acre-inches
37.10 inches/acre

Process wastewater applied

0.00 gallons
0.00 acre-inches
0.00 inches/acre

Total harvests for the crop

1 harvests

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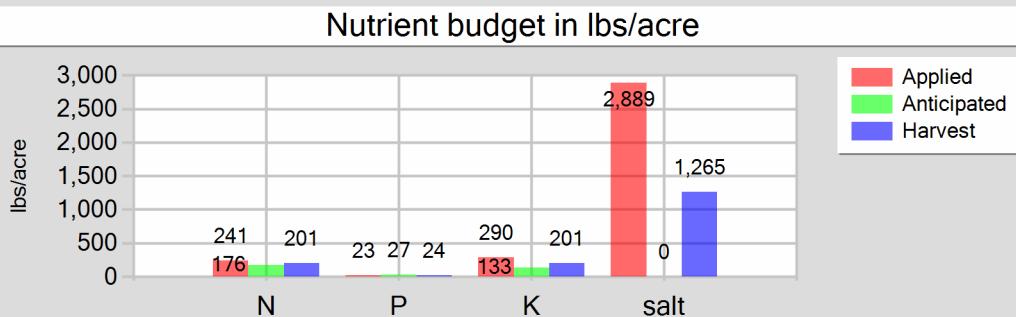
Reporting period 01/01/2023 to 12/31/2023.

4 - 10/30/2022: Wheat, silage, soft dough

Field name: 4

Crop: Wheat, silage, soft dough

Plant date: 10/30/2022



	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	219.22	22.94	289.62	1,811.84
Fresh water	14.95	0.00	0.00	1,076.93
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	241.16	22.94	289.62	2,888.77
Anticipated crop nutrient removal	176.00	27.20	132.80	0.00
Actual crop nutrient removal	200.84	24.10	200.84	1,265.30
Nutrient balance	40.32	-1.16	88.78	1,623.47
Applied to removed ratio	1.20	0.95	1.44	2.28

Fresh water applied

18,000,000.00 gallons
662.88 acre-inches
15.78 inches/acre

Process wastewater applied

2,180,900.00 gallons
80.32 acre-inches
1.91 inches/acre

Total harvests for the crop

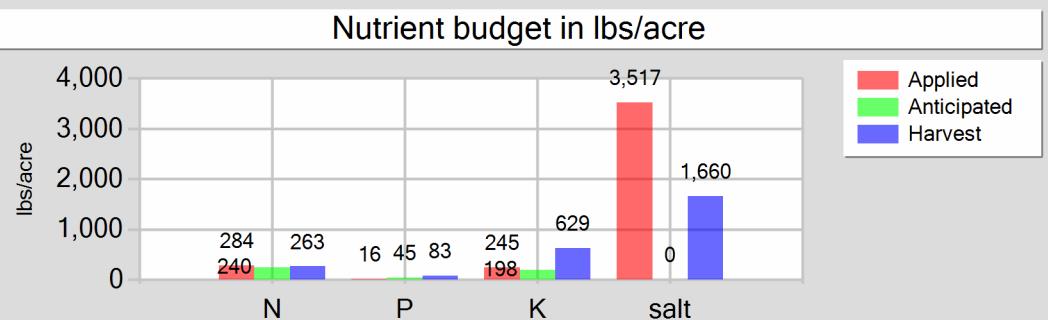
1 harvests

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

4 - 05/26/2023: Corn, silage

Field name: 4 Crop: Corn, silage Plant date: 05/26/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	24.86	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	244.21	16.29	244.83	1,789.33
Fresh water	8.15	0.00	0.00	1,727.29
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	284.23	16.29	244.83	3,516.62
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	262.72	82.96	629.15	1,660.48
Nutrient balance	21.51	-66.67	-384.32	1,856.14
Applied to removed ratio	1.08	0.20	0.39	2.12

Fresh water applied
42,170,000.00 gallons
1,552.98 acre-inches
36.98 inches/acre

Process wastewater applied
5,191,415.00 gallons
191.18 acre-inches
4.55 inches/acre

Total harvests for the crop
1 harvests

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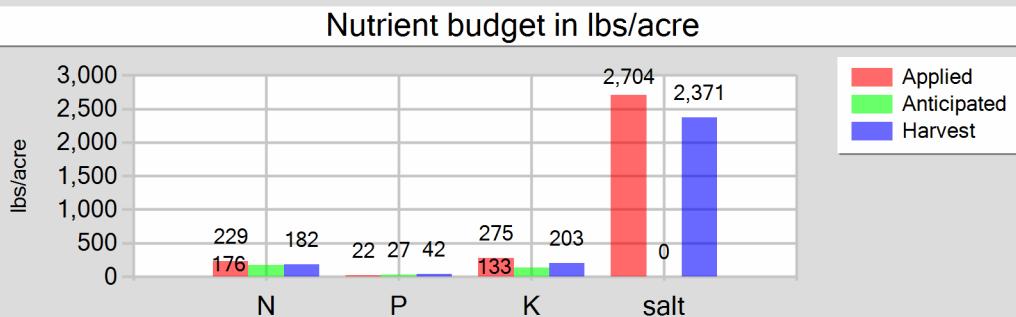
Reporting period 01/01/2023 to 12/31/2023.

5 - 11/06/2022: Wheat, silage, soft dough

Field name: 5

Crop: Wheat, silage, soft dough

Plant date: 11/06/2022



	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	209.56	21.72	275.22	1,735.21
Fresh water	12.68	0.00	0.00	968.76
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	229.25	21.72	275.22	2,703.98
Anticipated crop nutrient removal	176.00	27.20	132.80	0.00
Actual crop nutrient removal	181.74	42.26	202.87	2,371.02
Nutrient balance	47.51	-20.54	72.35	332.96
Applied to removed ratio	1.26	0.51	1.36	1.14

Fresh water applied

21,216,000.00 gallons
781.31 acre-inches
14.74 inches/acre

Process wastewater applied

2,651,055.00 gallons
97.63 acre-inches
1.84 inches/acre

Total harvests for the crop

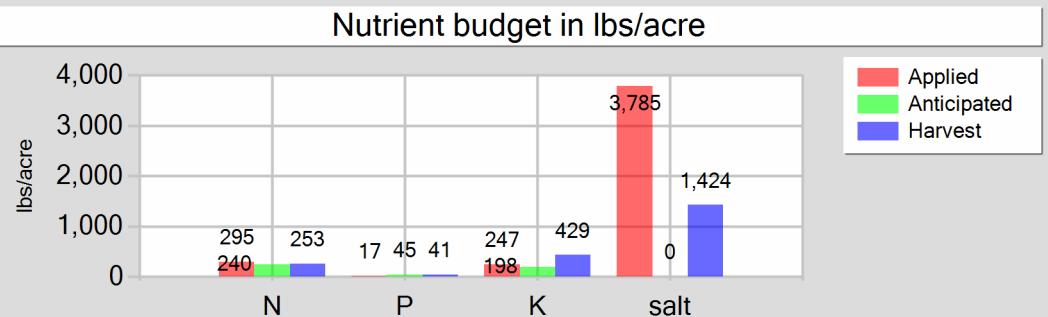
1 harvests

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

5 - 06/12/2023: Corn, silage

Field name: 5 Crop: Corn, silage Plant date: 06/12/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	24.86	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	245.99	16.52	247.22	1,781.51
Fresh water	17.21	0.00	0.00	2,003.76
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	295.06	16.52	247.22	3,785.27
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	252.58	41.12	428.80	1,424.08
Nutrient balance	42.48	-24.59	-181.58	2,361.19
Applied to removed ratio	1.17	0.40	0.58	2.66

Fresh water applied
53,090,000.00 gallons
1,955.12 acre-inches
36.89 inches/acre

Process wastewater applied
6,721,950.00 gallons
247.55 acre-inches
4.67 inches/acre

Total harvests for the crop
1 harvests

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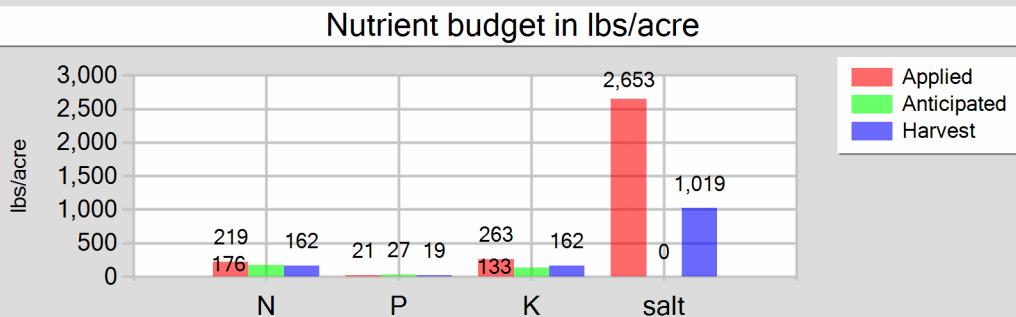
Reporting period 01/01/2023 to 12/31/2023.

6 - 10/28/2022: Wheat, silage, soft dough

Field name: 6

Crop: Wheat, silage, soft dough

Plant date: 10/28/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
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	197.94	20.89	262.83	1,633.45
Fresh water	14.25	0.00	0.00	1,020.03
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	219.19	20.89	262.83	2,653.48
Anticipated crop nutrient removal	176.00	27.20	132.80	0.00
Actual crop nutrient removal	161.80	19.42	161.80	1,019.33
Nutrient balance	57.40	1.47	101.03	1,634.15
Applied to removed ratio	1.35	1.08	1.62	2.60

Fresh water applied

17,380,000.00 gallons
640.05 acre-inches
14.88 inches/acre

Process wastewater applied

2,003,000.00 gallons
73.76 acre-inches
1.72 inches/acre

Total harvests for the crop

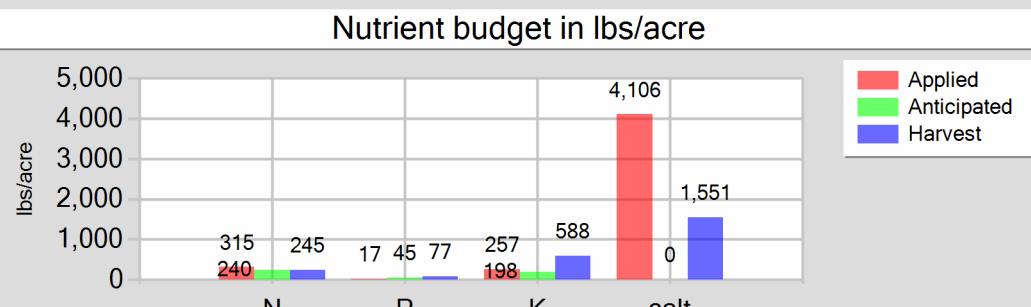
1 harvests

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

6 - 05/31/2023: Corn, silage

Field name: 6 Crop: Corn, silage Plant date: 05/31/2023



	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	24.86	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	258.78	16.86	257.33	1,967.98
Fresh water	24.01	0.00	0.00	2,138.25
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	314.66	16.86	257.33	4,106.22
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	245.33	77.47	587.50	1,550.56
Nutrient balance	69.33	-60.61	-330.17	2,555.66
Applied to removed ratio	1.28	0.22	0.44	2.65

Fresh water applied
41,496,000.00 gallons
1,528.16 acre-inches
35.54 inches/acre

Process wastewater applied
5,287,605.00 gallons
194.72 acre-inches
4.53 inches/acre

Total harvests for the crop
1 harvests

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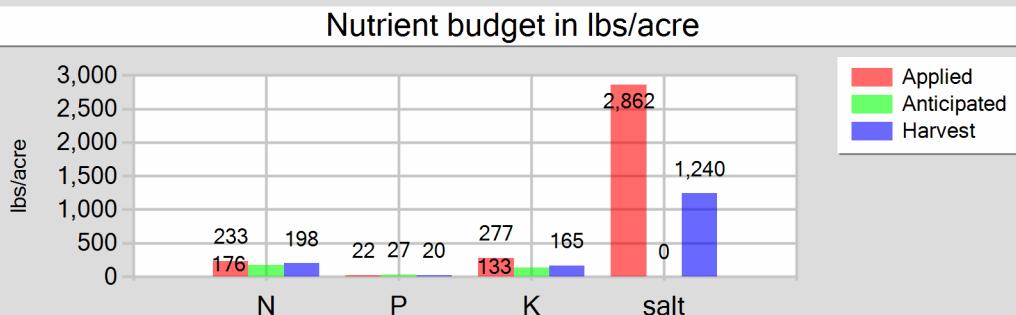
Reporting period 01/01/2023 to 12/31/2023.

7 - 10/29/2022: Wheat, silage, soft dough

Field name: 7

Crop: Wheat, silage, soft dough

Plant date: 10/29/2022



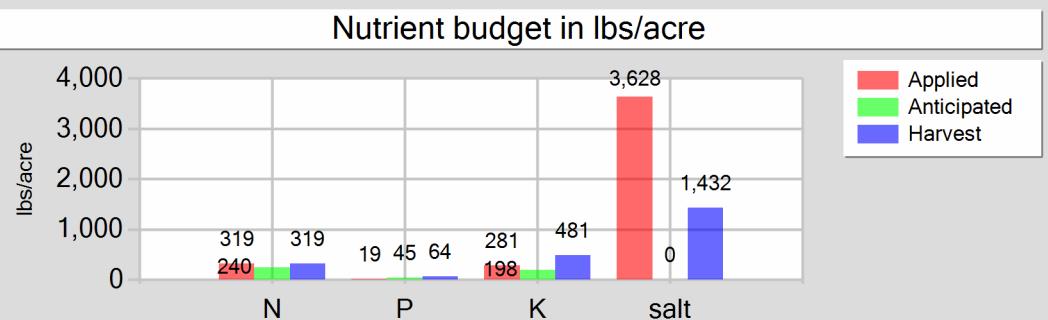
	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	19,260,000.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	709.28 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	15.76 inches/acre
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	208.58	21.98	276.74	1,721.63	Process wastewater applied
Fresh water	17.21	0.00	0.00	1,140.76	2,211,025.00 gallons
Atmospheric deposition	7.00	0.00	0.00	0.00	81.42 acre-inches
Total nutrients applied	232.79	21.98	276.74	2,862.39	1.81 inches/acre
Anticipated crop nutrient removal	176.00	27.20	132.80	0.00	Total harvests for the crop
Actual crop nutrient removal	198.30	20.17	164.69	1,240.22	1 harvests
Nutrient balance	34.49	1.81	112.04	1,622.17	
Applied to removed ratio	1.17	1.09	1.68	2.31	

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7 - 06/01/2023: Corn, silage

Field name: 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)
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	24.86	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	273.50	19.47	280.62	1,783.56
Fresh water	13.21	0.00	0.00	1,844.03
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	318.58	19.47	280.62	3,627.59
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	318.63	63.73	481.49	1,431.63
Nutrient balance	-0.06	-44.26	-200.87	2,195.95
Applied to removed ratio	1.00	0.31	0.58	2.53

Fresh water applied
43,708,000.00 gallons
1,609.62 acre-inches
35.77 inches/acre

Process wastewater applied
7,334,197.00 gallons
270.09 acre-inches
6.00 inches/acre

Total harvests for the crop
1 harvests

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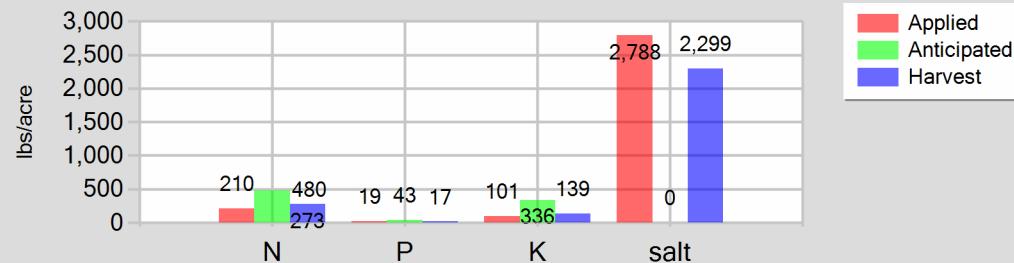
8 - 01/01/2023: Alfalfa, hay

Field name: 8

Crop: Alfalfa, hay

Plant date: 01/01/2023

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	189.47	18.95	100.72	866.57
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	6.14	0.00	0.00	1,921.01
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	209.60	18.95	100.72	2,787.57
Anticipated crop nutrient removal	480.00	43.20	336.00	0.00
Actual crop nutrient removal	273.01	16.55	138.99	2,299.01
Nutrient balance	-63.41	2.40	-38.27	488.56
Applied to removed ratio	0.77	1.15	0.72	1.21

Fresh water applied

48,590,000.00 gallons
1,789.40 acre-inches
42.60 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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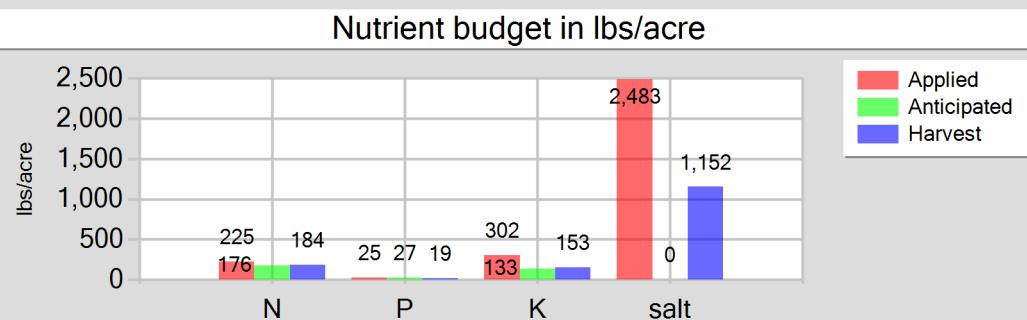
Reporting period 01/01/2023 to 12/31/2023.

9 - 11/01/2022: Wheat, silage, soft dough

Field name: 9

Crop: Wheat, silage, soft dough

Plant date: 11/01/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
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	212.18	25.02	302.25	1,711.02
Fresh water	5.65	0.00	0.00	772.21
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	224.83	25.02	302.25	2,483.23
Anticipated crop nutrient removal	176.00	27.20	132.80	0.00
Actual crop nutrient removal	184.26	18.74	153.03	1,152.41
Nutrient balance	40.57	6.29	149.22	1,330.83
Applied to removed ratio	1.22	1.34	1.98	2.15

Fresh water applied

16,845,020.00 gallons
620.34 acre-inches
15.51 inches/acre

Process wastewater applied

1,806,475.00 gallons
66.53 acre-inches
1.66 inches/acre

Total harvests for the crop

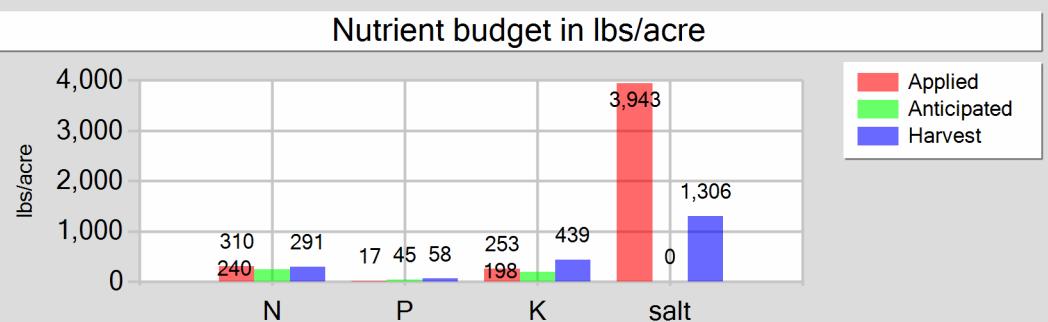
1 harvests

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

9 - 06/01/2023: Corn, silage

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



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	24.86	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	254.47	16.64	253.34	1,924.76
Fresh water	24.15	0.00	0.00	2,018.35
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	310.47	16.64	253.34	3,943.11
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	290.57	58.11	439.09	1,305.57
Nutrient balance	19.90	-41.48	-185.75	2,637.54
Applied to removed ratio	1.07	0.29	0.58	3.02

Fresh water applied
37,300,000.00 gallons
1,373.63 acre-inches
34.34 inches/acre

Process wastewater applied
4,882,975.00 gallons
179.82 acre-inches
4.50 inches/acre

Total harvests for the crop
1 harvests

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

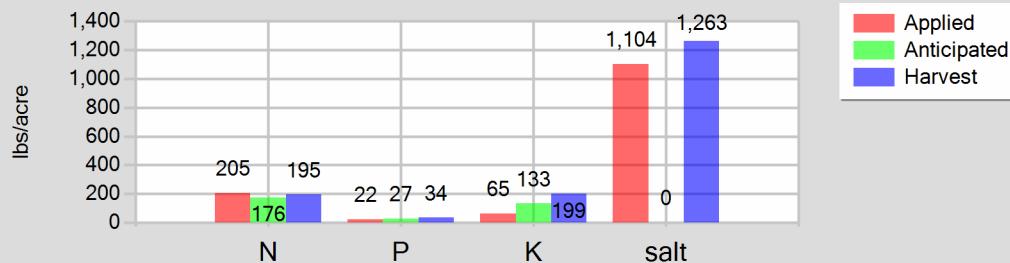
A - 11/05/2022: Wheat, silage, soft dough

Field name: A

Crop: Wheat, silage, soft dough

Plant date: 11/05/2022

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	187.62	22.26	64.66	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	10.44	0.00	0.00	1,104.06
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	205.06	22.26	64.66	1,104.06
Anticipated crop nutrient removal	176.00	27.20	132.80	0.00
Actual crop nutrient removal	195.13	34.43	198.95	1,262.58
Nutrient balance	9.93	-12.17	-134.29	-158.52
Applied to removed ratio	1.05	0.65	0.33	0.87

Fresh water applied

17,748,000.00 *gallons*
653.60 *acre-inches*
18.16 *inches/acre*

Process wastewater applied

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

Total harvests for the crop

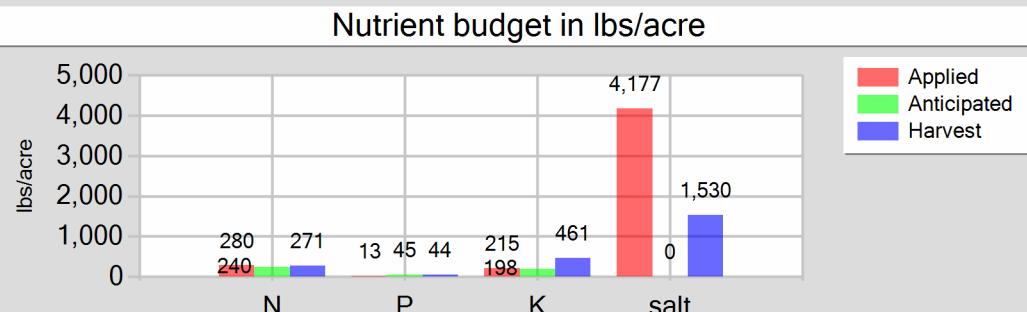
1 *harvests*

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A - 06/09/2023: Corn, silage

Field name: A Crop: Corn, silage Plant date: 06/09/2023



	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	24.86	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	225.63	12.98	215.31	2,025.78
Fresh water	22.31	0.00	0.00	2,151.58
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	279.79	12.98	215.31	4,177.36
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	271.33	44.17	460.63	1,529.81
Nutrient balance	8.46	-31.19	-245.32	2,647.55
Applied to removed ratio	1.03	0.29	0.47	2.73

Fresh water applied
37,080,000.00 gallons
1,365.53 acre-inches
37.93 inches/acre

Process wastewater applied
2,616,505.00 gallons
96.36 acre-inches
2.68 inches/acre

Total harvests for the crop
1 harvests

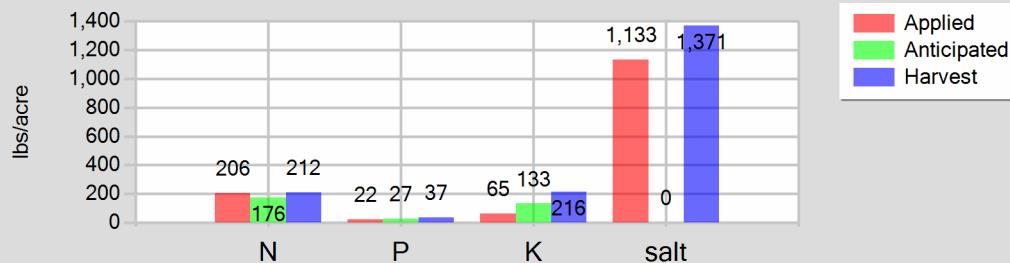
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Reporting period 01/01/2023 to 12/31/2023.

B - 11/05/2022: Wheat, silage, soft dough

Field name: B Crop: Wheat, silage, soft dough Plant date: 11/05/2022

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	187.62	22.26	64.66	0.00
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	11.76	0.00	0.00	1,132.54
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	206.38	22.26	64.66	1,132.54
Anticipated crop nutrient removal	176.00	27.20	132.80	0.00
Actual crop nutrient removal	211.86	37.39	216.01	1,370.84
Nutrient balance	-5.48	-15.13	-151.35	-238.30
Applied to removed ratio	0.97	0.60	0.30	0.83

Fresh water applied

18,600,000.00 *gallons*
684.97 *acre-inches*
19.03 *inches/acre*

Process wastewater applied

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

Total harvests for the crop

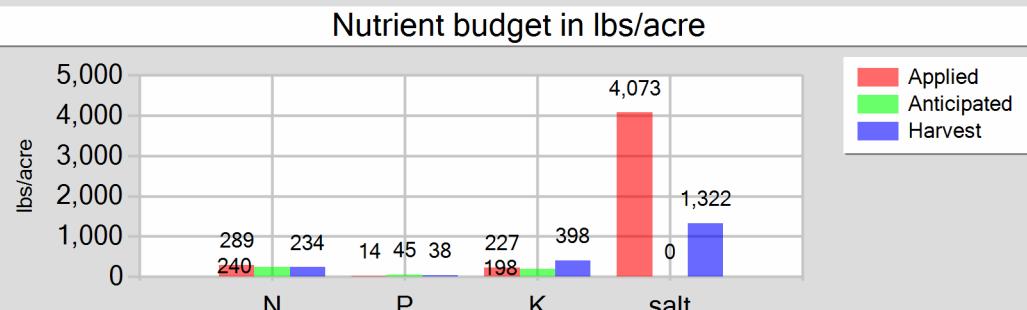
1 *harvests*

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

B - 06/07/2023: Corn, silage

Field name: B Crop: Corn, silage Plant date: 06/07/2023



	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	24.86	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	238.00	13.69	227.12	2,136.88
Fresh water	18.66	0.00	0.00	1,936.48
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	288.52	13.69	227.12	4,073.35
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	234.49	38.17	398.09	1,322.09
Nutrient balance	54.03	-24.48	-170.97	2,751.26
Applied to removed ratio	1.23	0.36	0.57	3.08

Fresh water applied
34,764,000.00 gallons
1,280.24 acre-inches
35.56 inches/acre

Process wastewater applied
2,760,000.00 gallons
101.64 acre-inches
2.82 inches/acre

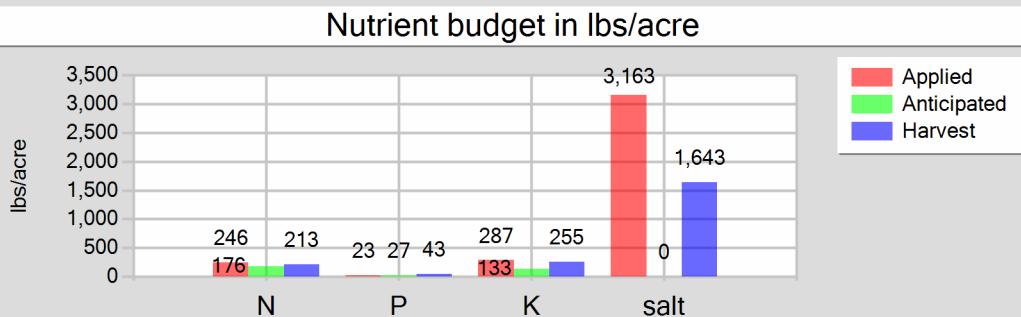
Total harvests for the crop
1 harvests

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

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

C - 11/04/2022: Wheat, silage, soft dough

Field name: C Crop: Wheat, silage, soft dough Plant date: 11/04/2022



	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	210.78	23.19	287.23	1,725.05
Fresh water	27.88	0.00	0.00	1,437.49
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	245.66	23.19	287.23	3,162.54
Anticipated crop nutrient removal	176.00	27.20	132.80	0.00
Actual crop nutrient removal	212.52	42.50	255.02	1,643.48
Nutrient balance	33.14	-19.32	32.20	1,519.06
Applied to removed ratio	1.16	0.55	1.13	1.92

Fresh water applied

17,506,000.00 gallons
644.69 acre-inches
17.42 inches/acre

Process wastewater applied

1,771,985.00 gallons
65.26 acre-inches
1.76 inches/acre

Total harvests for the crop

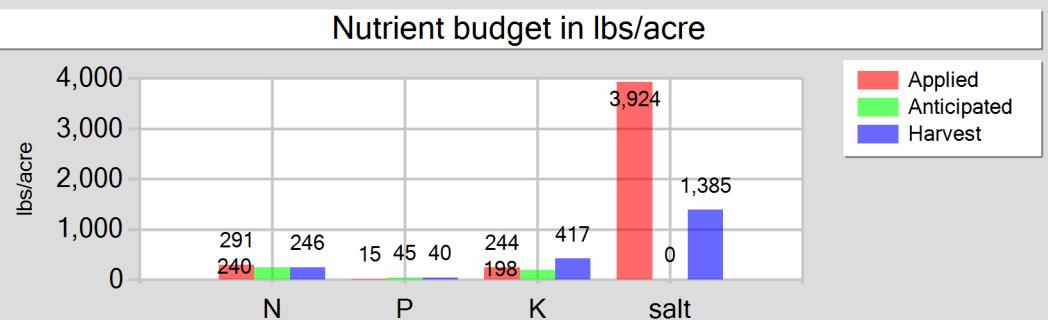
1 harvests

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

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

C - 06/06/2023: Corn, silage

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



	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	24.86	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	255.97	14.73	244.27	2,298.22
Fresh water	3.60	0.00	0.00	1,625.46
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	291.42	14.73	244.27	3,923.68
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	245.59	39.98	416.94	1,384.69
Nutrient balance	45.83	-25.26	-172.66	2,538.99
Applied to removed ratio	1.19	0.37	0.59	2.83

Fresh water applied
35,244,000.00 gallons
1,297.92 acre-inches
35.08 inches/acre

Process wastewater applied
3,050,850.00 gallons
112.35 acre-inches
3.04 inches/acre

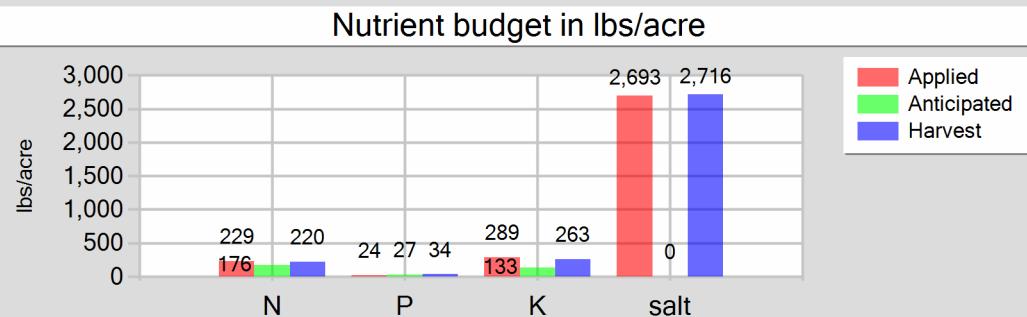
Total harvests for the crop
1 harvests

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

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

D - 10/31/2022: Wheat, silage, soft dough

Field name: D Crop: Wheat, silage, soft dough Plant date: 10/31/2022



	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	210.11	23.52	289.47	1,713.41
Fresh water	11.73	0.00	0.00	979.56
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	228.83	23.52	289.47	2,692.97
Anticipated crop nutrient removal	176.00	27.20	132.80	0.00
Actual crop nutrient removal	219.86	34.49	262.96	2,715.86
Nutrient balance	8.98	-10.97	26.50	-22.89
Applied to removed ratio	1.04	0.68	1.10	0.99

Fresh water applied

15,798,000.00 gallons
581.79 acre-inches
15.31 inches/acre

Process wastewater applied

1,786,210.00 gallons
65.78 acre-inches
1.73 inches/acre

Total harvests for the crop

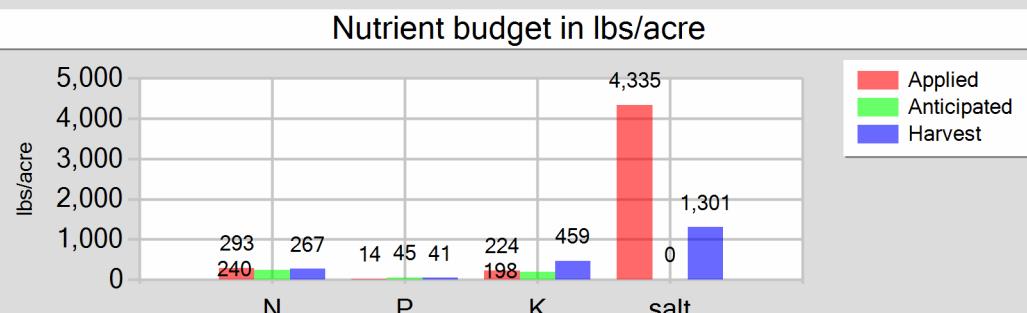
1 harvests

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

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

D - 05/28/2023: Corn, silage

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



	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	38,196,000.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	1,406.63 acre-inches
Commercial fertilizer / Other	24.86	0.00	0.00	0.00	37.02 inches/acre
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	235.02	13.52	224.28	2,110.10	
Fresh water	25.99	0.00	0.00	2,225.25	
Atmospheric deposition	7.00	0.00	0.00	0.00	
Total nutrients applied	292.86	13.52	224.28	4,335.35	Process wastewater applied
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00	2,876,830.00 gallons
Actual crop nutrient removal	267.18	40.66	458.86	1,301.42	105.94 acre-inches
Nutrient balance	25.68	-27.14	-234.58	3,033.93	2.79 inches/acre
Applied to removed ratio	1.10	0.33	0.49	3.33	Total harvests for the crop
					1 harvests

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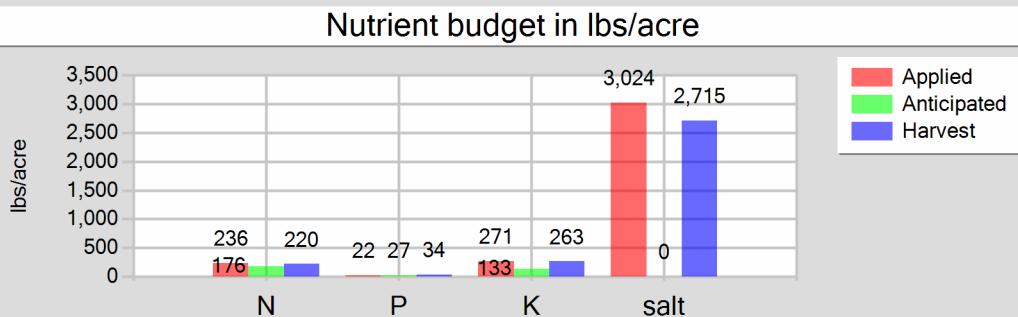
Reporting period 01/01/2023 to 12/31/2023.

E - 11/04/2022: Wheat, silage, soft dough

Field name: E

Crop: Wheat, silage, soft dough

Plant date: 11/04/2022



	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	197.29	22.03	271.37	1,609.79
Fresh water	31.66	0.00	0.00	1,414.44
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	235.95	22.03	271.37	3,024.23
Anticipated crop nutrient removal	176.00	27.20	132.80	0.00
Actual crop nutrient removal	219.78	34.47	262.87	2,714.89
Nutrient balance	16.18	-12.45	8.50	309.34
Applied to removed ratio	1.07	0.64	1.03	1.11

Fresh water applied

15,658,000.00 gallons
576.63 acre-inches
14.42 inches/acre

Process wastewater applied

1,769,710.00 gallons
65.17 acre-inches
1.63 inches/acre

Total harvests for the crop

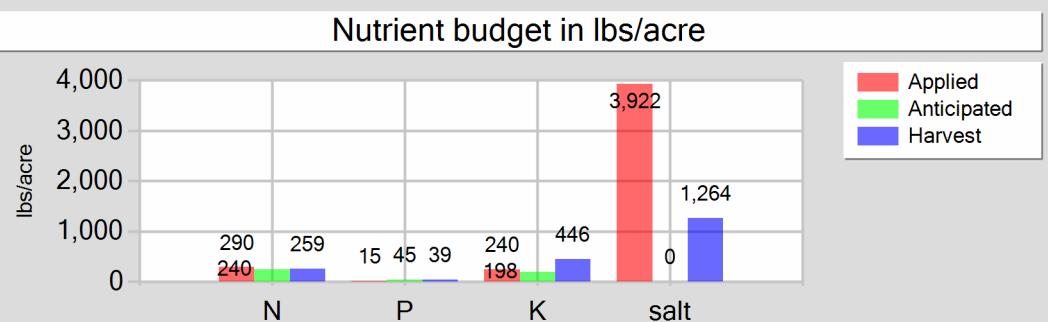
1 harvests

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

E - 05/30/2023: Corn, silage

Field name: E Crop: Corn, silage Plant date: 05/30/2023



	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	24.86	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	248.83	14.88	240.45	2,131.60
Fresh water	9.24	0.00	0.00	1,790.60
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	289.93	14.88	240.45	3,922.19
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	259.50	39.49	445.66	1,263.99
Nutrient balance	30.43	-24.61	-205.21	2,658.20
Applied to removed ratio	1.12	0.38	0.54	3.10

Fresh water applied
38,790,000.00 gallons
1,428.50 acre-inches
35.71 inches/acre

Process wastewater applied
3,662,995.00 gallons
134.90 acre-inches
3.37 inches/acre

Total harvests for the crop
1 harvests

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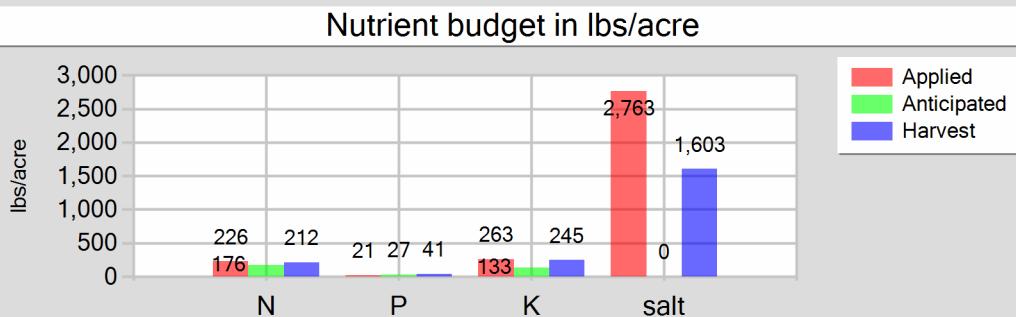
Reporting period 01/01/2023 to 12/31/2023.

F - 11/05/2022: Wheat, silage, soft dough

Field name: F

Crop: Wheat, silage, soft dough

Plant date: 11/05/2022



	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	201.72	20.71	263.34	1,673.35
Fresh water	17.05	0.00	0.00	1,090.11
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	225.77	20.71	263.34	2,763.46
Anticipated crop nutrient removal	176.00	27.20	132.80	0.00
Actual crop nutrient removal	212.10	40.79	244.74	1,603.02
Nutrient balance	13.66	-20.08	18.61	1,160.44
Applied to removed ratio	1.06	0.51	1.08	1.72

Fresh water applied

11,376,000.00 gallons
418.94 acre-inches
14.96 inches/acre

Process wastewater applied

1,358,410.00 gallons
50.03 acre-inches
1.79 inches/acre

Total harvests for the crop

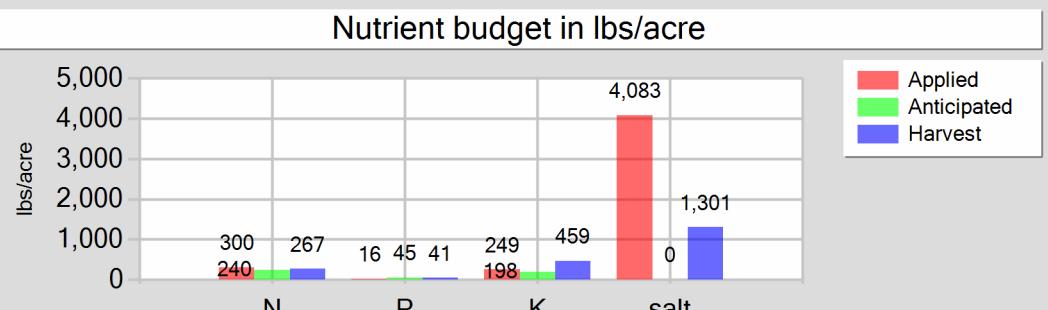
1 harvests

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

F - 06/13/2023: Corn, silage

Field name: F Crop: Corn, silage Plant date: 06/13/2023



	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	24.86	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	255.45	15.77	249.41	2,100.66
Fresh water	13.14	0.00	0.00	1,982.41
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	300.45	15.77	249.41	4,083.07
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	267.15	40.65	458.79	1,301.23
Nutrient balance	33.30	-24.89	-209.39	2,781.84
Applied to removed ratio	1.12	0.39	0.54	3.14

Fresh water applied
28,358,000.00 gallons
1,044.33 acre-inches
37.30 inches/acre

Process wastewater applied
2,905,850.00 gallons
107.01 acre-inches
3.82 inches/acre

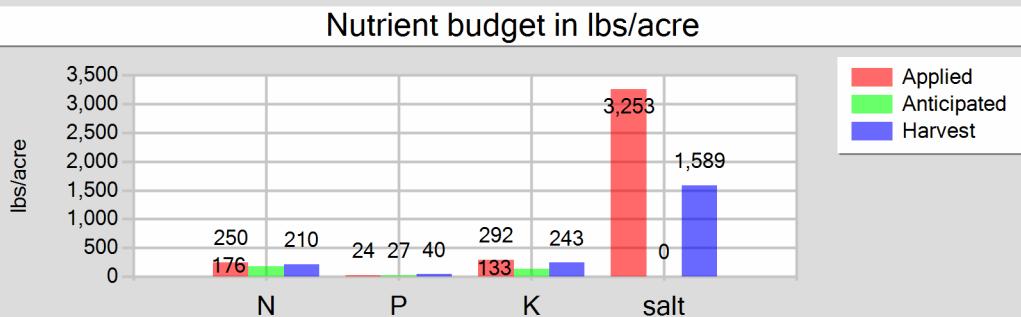
Total harvests for the crop
1 harvests

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

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

G - 11/04/2022: Wheat, silage, soft dough

Field name: G Crop: Wheat, silage, soft dough Plant date: 11/04/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	213.12	23.68	292.28	1,740.59
Fresh water	29.92	0.00	0.00	1,512.46
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	250.04	23.68	292.28	3,253.05
Anticipated crop nutrient removal	176.00	27.20	132.80	0.00
Actual crop nutrient removal	210.20	40.42	242.54	1,588.66
Nutrient balance	39.84	-16.74	49.74	1,664.39
Applied to removed ratio	1.19	0.59	1.21	2.05

Fresh water applied

9,874,000.00 gallons
363.63 acre-inches
17.32 inches/acre

Process wastewater applied

1,007,810.00 gallons
37.11 acre-inches
1.77 inches/acre

Total harvests for the crop

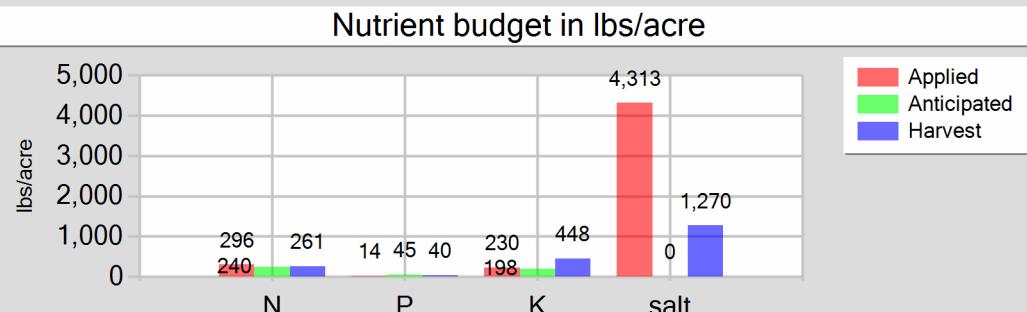
1 harvests

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

G - 06/13/2023: Corn, silage

Field name: G Crop: Corn, silage Plant date: 06/13/2023



	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	24.86	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	241.07	13.87	230.05	2,164.42
Fresh water	23.09	0.00	0.00	2,148.69
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	296.02	13.87	230.05	4,313.12
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	260.63	39.66	447.61	1,269.50
Nutrient balance	35.39	-25.79	-217.56	3,043.61
Applied to removed ratio	1.14	0.35	0.51	3.40

Fresh water applied
20,871,600.00 gallons
768.63 acre-inches
36.60 inches/acre

Process wastewater applied
1,630,755.00 gallons
60.06 acre-inches
2.86 inches/acre

Total harvests for the crop
1 harvests

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

NUTRIENT ANALYSES**A. MANURE ANALYSES****Fall 2022 Separated Solids**

Sample and source description: Fall 2022 Separated Solids

Sample date: 11/01/2022 Material type: Separator solids Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 73.5 %

	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	17,700.00	2,100.00	6,100.00							
DL	100.00	100.00	100.00							

Spring Separated Solids

Sample and source description: Spring Separated Solids

Sample date: 04/24/2023 Material type: Separator solids Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 72.3 %

	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	19,000.00	1,900.00	10,100.00							8.69
DL	100.00	100.00	100.00							0.01

Fall Separated Solids

Sample and source description: Fall Separated Solids

Sample date: 10/04/2023 Material type: Separator solids Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 77.0 %

	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	19,200.00	1,800.00	6,100.00							
DL	100.00	100.00	100.00							

B. PROCESS WASTEWATER ANALYSES

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

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

2022 WWSQ4

Sample and source description: 2022 WWSQ4

Sample date: 11/01/2022 Material type: Process wastewater Source of analysis: Lab analysis pH: _____

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	0.00	0.00	0.00	0.00	8.04	63.40								783.00	4,420
DL	0.50	0.50	0.50	0.50	0.50	0.50								1.00	10

WWSQ1

Sample and source description: WWSQ1

Sample date: 02/16/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: _____

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	563.00	423.00	0.00	0.00	66.40	802.00								6,790.00	4,540
DL	0.50	0.50	0.50	0.50	0.50	0.50								1.00	10

WWSQ2

Sample and source description: WWSQ2

Sample date: 04/24/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: _____

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	372.00	272.00	0.00	0.00	21.40	355.00								4,510.00	3,340
DL	0.50	0.50	0.50	0.50	0.50	0.50								1.00	10

WWSQ3

Sample and source description: WWSQ3

Sample date: 07/07/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: _____

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	126.00	95.20	0.00	0.00	11.20	141.00	28.10	28.90	29.70	700.00	0.00	105.00	76.60	1,710.00	420
DL	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	1.00	10

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

WWSQ4

Sample and source description: WWSQ4

Sample date: 10/04/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: _____

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	314.00	241.00	0.00	0.00	29.90	334.00								3,840.00	1,820
DL	0.50	0.50	0.50	0.50	0.50	0.50								1.00	10

C. FRESH WATER ANALYSES

Canal

Chowchilla Bypass

Sample description: Chowchilla Bypass

Sample date: 10/03/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	0.00	0.00	0.00								296.00	180
DL	0.50	0.50	0.50								1.00	10

Irrigation Well

DW #16

Sample description: DW #16

Sample date: 07/19/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	12.30	0.00	12.30								745.00	493
DL	0.50	0.50	0.50								1.00	10

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Irrigation Well

DW #18

Sample description: DW #18

Sample date: 07/19/2023 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	0.00	0.00								280.00	210
DL	0.50	0.50	0.50								1.00	10

DW #26

Sample description: DW #26

Sample date: 07/19/2023 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	12.80	0.00	12.80								849.00	547
DL	0.50	0.50	0.50								1.00	10

DW #27

Sample description: DW #27

Sample date: 07/19/2023 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	1.44	0.00	1.44								344.00	223
DL	0.50	0.50	0.50								1.00	10

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Irrigation Well**DW #28**

Sample description: DW #28

Sample date: 07/19/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	1.75	0.00	1.75								327.00	217
DL	0.50	0.50	0.50								1.00	10

DW #8

Sample description: DW #8

Sample date: 07/19/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	20.00	0.00	20.00								966.00	647
DL	0.50	0.50	0.50								1.00	10

D. SOIL ANALYSES

No soil analyses entered.

E. PLANT TISSUE ANALYSES

1 - 01/01/2023: Alfalfa, hay

Alfalfa

Sample and source description: Alfalfa

Sample date: 05/02/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 10.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	20,500.00	1,900.00	15,900.00		13.10
DL	100.00	100.00	100.00		0.01

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1 - 01/01/2023: Alfalfa, hay

Alfalfa

Sample and source description: Alfalfa

Sample date: 07/07/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 10.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	36,100.00	1,900.00	28,300.00		13.00
DL	100.00	100.00	100.00		0.01

11 - 11/06/2022: Wheat, silage, soft dough

Wheat Silage

Sample and source description: Wheat Silage

Sample date: 05/19/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 52.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	8,300.00	1,000.00	7,100.00		10.50
DL	100.00	100.00	100.00		0.01

11 - 05/30/2023: Corn, silage

Corn Silage

Sample and source description: Corn Silage

Sample date: 09/25/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 66.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,500.00	900.00	6,800.00		6.09
DL	100.00	100.00	100.00		0.01

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12 - 11/05/2022: Wheat, silage, soft dough

Wheat Silage

Sample and source description: Wheat Silage

Sample date: 06/02/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 55.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	6,500.00	1,500.00	7,200.00		18.70
DL	100.00	100.00	100.00		0.01

12 - 06/09/2023: Corn, silage

Corn Silage

Sample and source description: Corn Silage

Sample date: 10/02/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 66.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,000.00	500.00	6,000.00		5.40
DL	100.00	100.00	100.00		0.01

13 - 06/07/2023: Corn, silage

Corn Silage

Sample and source description: Corn Silage

Sample date: 10/02/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 66.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,000.00	500.00	6,000.00		5.40
DL	100.00	100.00	100.00		0.01

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14 - 06/14/2023: Corn, silage

Corn Silage

Sample and source description: Corn Silage

Sample date: 10/04/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 69.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	3,400.00	300.00	5,400.00		6.90
DL	100.00	100.00	100.00		0.01

16 - 10/31/2022: Wheat, silage, soft dough

Wheat Silage

Sample and source description: Wheat Silage

Sample date: 05/19/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 72.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	5,600.00	600.00	7,300.00		11.50
DL	100.00	100.00	100.00		0.01

16 - 06/02/2023: Corn, silage

Corn Silage

Sample and source description: Corn Silage

Sample date: 09/25/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 67.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,200.00	700.00	7,600.00		6.09
DL	100.00	100.00	100.00		0.01

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17 - 10/31/2022: Wheat, silage, soft dough

Wheat Silage

Sample and source description: Wheat Silage

Sample date: 05/19/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 72.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	5,600.00	600.00	7,300.00		11.50
DL	100.00	100.00	100.00		0.01

17 - 05/27/2023: Corn, silage

Corn Silage

Sample and source description: Corn Silage

Sample date: 09/25/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 67.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,200.00	700.00	7,600.00		6.09
DL	100.00	100.00	100.00		0.01

18 - 01/01/2023: Alfalfa, hay

Alfalfa

Sample and source description: Alfalfa

Sample date: 05/02/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 10.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	12,900.00	1,400.00	12,800.00		12.90
DL	100.00	100.00	100.00		0.01

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18 - 01/01/2023: Alfalfa, hay

Alfalfa

Sample and source description: Alfalfa

Sample date: 07/07/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 11.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	41,400.00	2,400.00	33,300.00		12.50
DL	100.00	100.00	100.00		0.01

Alfalfa

Sample and source description: Alfalfa

Sample date: 10/23/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 10.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	18,300.00	1,900.00	19,400.00		20.20
DL	100.00	100.00	100.00		0.01

19 - 01/01/2023: Alfalfa, hay

Alfalfa

Sample and source description: Alfalfa

Sample date: 05/02/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 10.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	12,900.00	1,400.00	12,800.00		12.90
DL	100.00	100.00	100.00		0.01

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19 - 01/01/2023: Alfalfa, hay

Alfalfa

Sample and source description: Alfalfa

Sample date: 07/07/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 9.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	30,100.00	2,600.00	34,500.00		11.50
DL	100.00	100.00	100.00		0.01

2 - 01/01/2023: Alfalfa, hay

Alfalfa

Sample and source description: Alfalfa

Sample date: 05/02/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 10.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	20,500.00	1,900.00	15,900.00		13.10
DL	100.00	100.00	100.00		0.01

Alfalfa

Sample and source description: Alfalfa

Sample date: 07/07/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 11.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	38,500.00	2,400.00	32,100.00		11.80
DL	100.00	100.00	100.00		0.01

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2 - 01/01/2023: Alfalfa, hay

Alfalfa

Sample and source description: Alfalfa

Sample date: 10/23/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 10.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	16,500.00	1,000.00	8,400.00		15.70
DL	100.00	100.00	100.00		0.01

20 - 11/01/2022: Wheat, silage, soft dough

Wheat Silage

Sample and source description: Wheat Silage

Sample date: 05/19/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 69.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	5,800.00	800.00	5,600.00		12.10
DL	100.00	100.00	100.00		0.01

20 - 05/31/2023: Corn, silage

Corn Silage

Sample and source description: Corn Silage

Sample date: 09/25/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 65.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	3,500.00	900.00	7,600.00		8.22
DL	100.00	100.00	100.00		0.01

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

Wheat Silage

Sample and source description: Wheat Silage

Sample date: 05/19/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 69.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	5,800.00	800.00	5,600.00		12.10
DL	100.00	100.00	100.00		0.01

21 - 05/29/2023: Corn, silage

Corn Silage

Sample and source description: Corn Silage

Sample date: 09/25/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 65.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	3,500.00	900.00	7,600.00		8.22
DL	100.00	100.00	100.00		0.01

3 - 01/01/2023: Alfalfa, hay

Alfalfa

Sample and source description: Alfalfa

Sample date: 05/02/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 10.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	20,400.00	1,700.00	13,500.00		12.00
DL	100.00	100.00	100.00		0.01

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3 - 01/01/2023: Alfalfa, hay

Alfalfa

Sample and source description: Alfalfa

Sample date: 07/07/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 9.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	30,100.00	2,600.00	34,500.00		11.50
DL	100.00	100.00	100.00		0.01

Alfalfa

Sample and source description: Alfalfa

Sample date: 07/07/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 11.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	43,100.00	2,400.00	33,100.00		11.80
DL	100.00	100.00	100.00		0.01

Alfalfa

Sample and source description: Alfalfa

Sample date: 10/23/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 10.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	16,500.00	1,000.00	8,400.00		15.70
DL	100.00	100.00	100.00		0.01

4 - 10/30/2022: Wheat, silage, soft dough

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4 - 10/30/2022: Wheat, silage, soft dough

Wheat Silage

Sample and source description: Wheat Silage

Sample date: 05/19/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 56.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	7,300.00	900.00	7,300.00		10.50
DL	100.00	100.00	100.00		0.01

4 - 05/26/2023: Corn, silage

Corn Silage

Sample and source description: Corn Silage

Sample date: 09/25/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 61.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	3,800.00	1,200.00	9,100.00		6.19
DL	100.00	100.00	100.00		0.01

5 - 11/06/2022: Wheat, silage, soft dough

Wheat Silage

Sample and source description: Wheat Silage

Sample date: 06/02/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 55.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	6,500.00	1,500.00	7,200.00		18.70
DL	100.00	100.00	100.00		0.01

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5 - 06/12/2023: Corn, silage

Corn Silage

Sample and source description: Corn Silage

Sample date: 10/02/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 58.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,300.00	700.00	7,300.00		5.80
DL	100.00	100.00	100.00		0.01

6 - 10/28/2022: Wheat, silage, soft dough

Wheat Silage

Sample and source description: Wheat Silage

Sample date: 05/19/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 56.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	7,300.00	900.00	7,300.00		10.50
DL	100.00	100.00	100.00		0.01

6 - 05/31/2023: Corn, silage

Corn Silage

Sample and source description: Corn Silage

Sample date: 09/25/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 61.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	3,800.00	1,200.00	9,100.00		6.19
DL	100.00	100.00	100.00		0.01

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7 - 10/29/2022: Wheat, silage, soft dough

Wheat Silage

Sample and source description: Wheat Silage

Sample date: 05/19/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 61.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	7,700.00	900.00	6,400.00		12.30
DL	100.00	100.00	100.00		0.01

7 - 06/01/2023: Corn, silage

Corn Silage

Sample and source description: Corn Silage

Sample date: 09/25/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 69.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	3,000.00	800.00	7,200.00		6.02
DL	100.00	100.00	100.00		0.01

8 - 01/01/2023: Alfalfa, hay

Alfalfa

Sample and source description: Alfalfa

Sample date: 05/02/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 13.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	33,400.00	3,500.00	28,900.00		10.30
DL	100.00	100.00	100.00		0.01

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8 - 01/01/2023: Alfalfa, hay

Alfalfa

Sample and source description: Alfalfa

Sample date: 07/07/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 11.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	42,800.00	2,900.00	39,200.00		10.90
DL	100.00	100.00	100.00		0.01

Alfalfa

Sample and source description: Alfalfa

Sample date: 10/23/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 10.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	18,300.00	1,900.00	19,400.00		20.20
DL	100.00	100.00	100.00		0.01

9 - 11/01/2022: Wheat, silage, soft dough

Wheat Silage

Sample and source description: Wheat Silage

Sample date: 05/19/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 61.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	7,700.00	900.00	6,400.00		12.30
DL	100.00	100.00	100.00		0.01

9 - 06/01/2023: Corn, silage

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9 - 06/01/2023: Corn, silage

Corn Silage

Sample and source description: Corn Silage

Sample date: 09/25/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 66.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,500.00	900.00	6,800.00		6.09
DL	100.00	100.00	100.00		0.01

A - 11/05/2022: Wheat, silage, soft dough

Wheat Silage

Sample and source description: Wheat Silage

Sample date: 06/02/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 61.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	6,600.00	1,200.00	6,700.00		11.00
DL	100.00	100.00	100.00		0.01

A - 06/09/2023: Corn, silage

Corn Silage

Sample and source description: Corn Silage

Sample date: 10/02/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 58.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,300.00	700.00	7,300.00		5.80
DL	100.00	100.00	100.00		0.01

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B - 11/05/2022: Wheat, silage, soft dough

Wheat Silage

Sample and source description: Wheat Silage

Sample date: 06/02/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 61.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	6,600.00	1,200.00	6,700.00		11.00
DL	100.00	100.00	100.00		0.01

B - 06/07/2023: Corn, silage

Corn Silage

Sample and source description: Corn Silage

Sample date: 10/04/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 64.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	3,500.00	500.00	6,600.00		7.60
DL	100.00	10.00	100.00		0.01

C - 11/04/2022: Wheat, silage, soft dough

Wheat Silage

Sample and source description: Wheat Silage

Sample date: 06/02/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 66.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	5,100.00	1,100.00	6,100.00		11.60
DL	100.00	100.00	100.00		0.01

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

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

C - 06/06/2023: Corn, silage

Corn Silage

Sample and source description: Corn Silage

Sample date: 10/04/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 64.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	3,500.00	500.00	6,600.00		7.60
DL	100.00	100.00	100.00		0.01

D - 10/31/2022: Wheat, silage, soft dough

Wheat Silage

Sample and source description: Wheat Silage

Sample date: 05/19/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 62.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	6,400.00	1,000.00	7,700.00		21.00
DL	100.00	100.00	100.00		0.01

D - 05/28/2023: Corn, silage

Corn Silage

Sample and source description: Corn Silage

Sample date: 09/25/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 66.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,600.00	700.00	7,900.00		6.59
DL	100.00	100.00	100.00		0.01

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

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

E - 11/04/2022: Wheat, silage, soft dough

Wheat Silage

Sample and source description: Wheat Silage

Sample date: 05/19/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 62.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	6,400.00	1,000.00	7,700.00		21.00
DL	100.00	100.00	100.00		0.01

E - 05/30/2023: Corn, silage

Corn Silage

Sample and source description: Corn Silage

Sample date: 09/25/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 66.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	4,600.00	700.00	7,900.00		6.59
DL	100.00	100.00	100.00		0.01

F - 11/05/2022: Wheat, silage, soft dough

Wheat Silage

Sample and source description: Wheat Silage

Sample date: 06/02/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 64.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	6,200.00	1,200.00	7,100.00		13.10
DL	100.00	100.00	100.00		0.01

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

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

F - 06/13/2023: Corn, silage

Corn Silage

Sample and source description: Corn Silage

Sample date: 10/02/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 65.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	3,800.00	700.00	5,800.00		4.70
DL	100.00	100.00	100.00		0.01

G - 11/04/2022: Wheat, silage, soft dough

Wheat Silage

Sample and source description: Wheat Silage

Sample date: 06/02/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 64.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	6,200.00	1,200.00	7,100.00		13.10
DL	100.00	100.00	100.00		0.01

G - 06/13/2023: Corn, silage

Corn Silage

Sample and source description: Corn Silage

Sample date: 10/02/2023 Source of analysis: Lab analysis Method of reporting: As-is

Moisture: 65.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	3,800.00	700.00	5,800.00		4.70
DL	100.00	100.00	100.00		0.01

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

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

F. SUBSURFACE (TILE) DRAINAGE ANALYSES

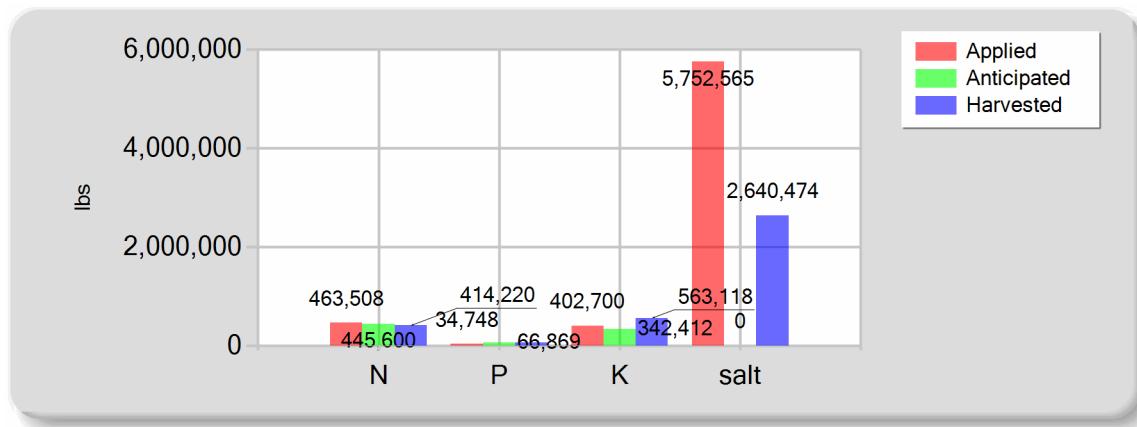
No subsurface (tile) drainage analyses entered.

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	19,142.20	0.00	0.00	0.00
Dry manure	78,112.01	8,192.48	37,699.54	263,725.16
Process wastewater	317,601.16	26,555.88	365,000.71	2,558,490.72
Fresh water	34,218.78	0.00	0.00	2,930,348.93
Atmospheric deposition	14,434.00	0.00	0.00	0.00
Total nutrients applied	463,508.15	34,748.37	402,700.25	5,752,564.81
Anticipated crop nutrient removal	445,600.00	66,869.20	342,412.00	0.00
Actual crop nutrient removal	414,220.29	65,243.89	563,117.94	2,640,473.76
Nutrient balance	49,287.86	-30,495.52	-160,417.69	3,112,091.05
Applied to removed ratio	1.12	0.53	0.72	2.18

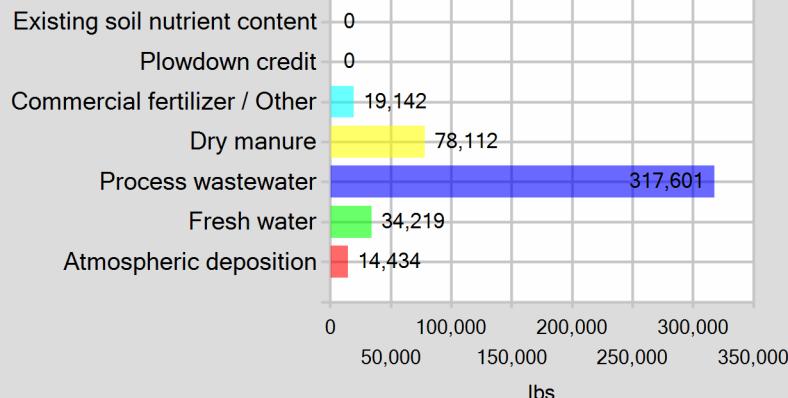
B. POUNDS OF NUTRIENT APPLIED VS. CROP REMOVAL

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

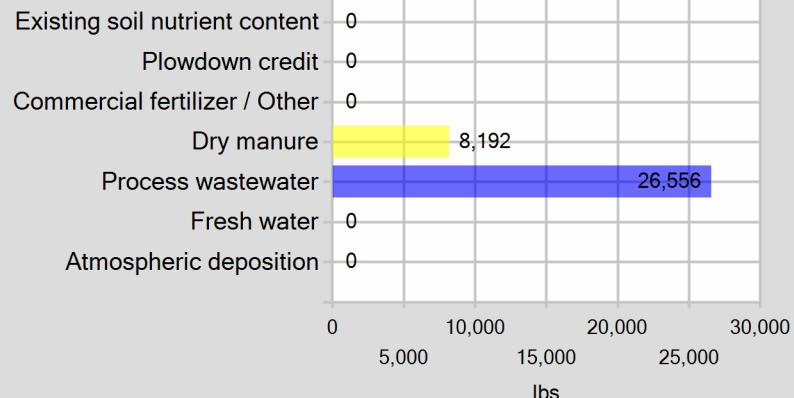
Reporting period 01/01/2023 to 12/31/2023.

C. POUNDS OF NUTRIENT APPLIED BY MATERIAL TYPE

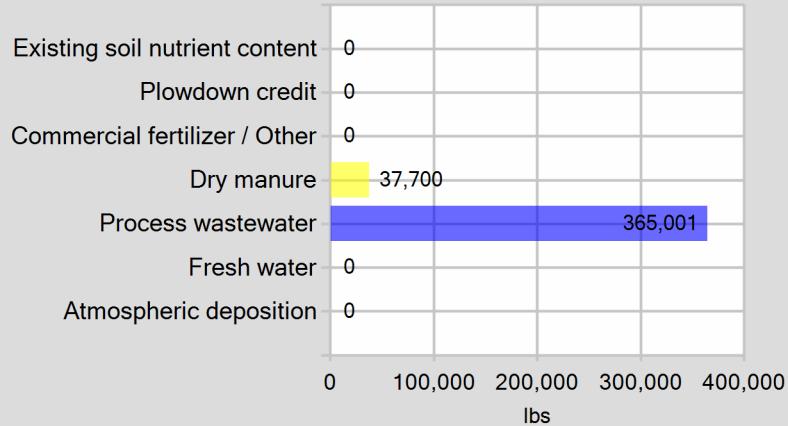
Pounds of nitrogen applied



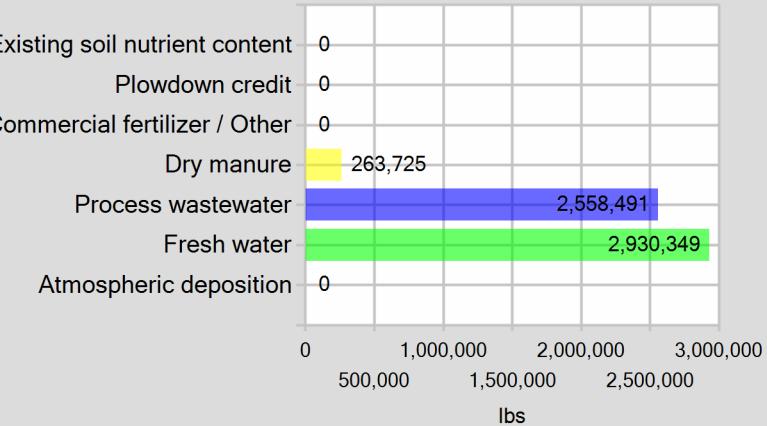
Pounds of phosphorus applied



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? No

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

No notes entered for this annual report.

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

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

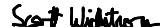
CERTIFICATION

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.



Scott Wickstrom (May 20, 2024 11:16 PDT)



Scott Wickstrom (May 20, 2024 11:16 PDT)

SIGNATURE OF OWNER OF FACILITY

N & W Land Co. LLC

PRINT OR TYPE NAME

May 20, 2024

SIGNATURE OF OPERATOR OF FACILITY

Scott Wickstrom

PRINT OR TYPE NAME

May 20, 2024

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.



R & J Avila Inc
8119 Ellington Ave
Hilmar, CA 95324

Account# 00-0019840
Account Manager: Ben Nydam
Submitted By: Rui & John Avila
Ranch: Red Top

Received: 07/20/2023 15:29
Reported: 07/31/2023 09:05

Samples in this Report

Lab ID	Sample	Matrix	Sampled By	Crop	Date Sampled
23G1476-01	DW #16	Ag Water	T. Madruga		07/19/2023 16:00
23G1476-02	DW #18	Ag Water	T. Madruga		07/19/2023 16:10
23G1476-03	DW #26	Ag Water	T. Madruga		07/19/2023 16:20
23G1476-04	DW #27	Ag Water	T. Madruga		07/19/2023 16:30
23G1476-05	DW #28	Ag Water	T. Madruga		07/19/2023 16:40
23G1476-06	DW #8	Ag Water	T. Madruga		07/19/2023 16:50

Default Cooler Temperature on Receipt °C: 0.5
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

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R & J Avila Inc
8119 Ellington Ave
Hilmar, CA 95324

Account# 00-0019840
Account Manager: Ben Nydam
Submitted By: Rui & John Avila
Ranch: Red Top

Received: 07/20/2023 15:29
Reported: 07/31/2023 09:05

Sample Results

Sample: DW #16
23G1476-01 (Water)

Sampled: 7/19/2023 16:00
Sampled By: T. Madruga

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	0.74	mmhos/cm	0.01	1		07/26/23 14:22	SM 2510 B		BEG0838
Electrical Conductivity umhos	745	umhos/cm	10.0	1		07/26/23 14:22	SM 2510 B		BEG0838
Nitrate Nitrogen as NO3N	12.3	mg/L	0.1	1	10	07/21/23 01:55	EPA 300.0		BEG0713
pH	7.8	units	1.0	1		07/26/23 14:22	SM 4500-H+	H	BEG0838
Total Filterable Solids (TDS)	493	mg/L	10.0	1		07/27/23 15:48	SM 2540 C		BEG0787
Temperature	25.0	°C	0.0	1		07/26/23 14:22	SM 2510 B		BEG0838
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		07/24/23 11:42	SM 4500-NH3 C		BEG0809
Total Nitrogen	12.3	mg/L	1.00	1		07/24/23 11:42	SM 4500-NH3 C		BEG0809

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8119 Ellington Ave
Hilmar, CA 95324

Account# 00-0019840
Account Manager: Ben Nydam
Submitted By: Rui & John Avila
Ranch: Red Top

Received: 07/20/2023 15:29
Reported: 07/31/2023 09:05

Sample Results
(Continued)

Sample: DW #18
23G1476-02 (Water)

Sampled: 7/19/2023 16:10

Sampled By: T. Madruga

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	0.28	mmhos/cm	0.01	1		07/26/23 14:24	SM 2510 B		BEG0838
Electrical Conductivity umhos	280	umhos/cm	10.0	1		07/26/23 14:24	SM 2510 B		BEG0838
Nitrate Nitrogen as NO3N	0.8	mg/L	0.1	1	10	07/21/23 02:15	EPA 300.0		BEG0713
pH	8.0	units	1.0	1		07/26/23 14:24	SM 4500-H+	H	BEG0838
Total Filterable Solids (TDS)	210	mg/L	10.0	1		07/27/23 15:48	SM 2540 C		BEG0787
Temperature	25.0	°C	0.0	1		07/26/23 14:24	SM 2510 B		BEG0838
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		07/24/23 11:43	SM 4500-NH3 C		BEG0809
Total Nitrogen	ND	mg/L	1.00	1		07/24/23 11:43	SM 4500-NH3 C		BEG0809

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8119 Ellington Ave
Hilmar, CA 95324

Account# 00-0019840
Account Manager: Ben Nydam
Submitted By: Rui & John Avila
Ranch: Red Top

Received: 07/20/2023 15:29
Reported: 07/31/2023 09:05

Sample Results
(Continued)

Sample: DW #26
23G1476-03 (Water)

Sampled: 7/19/2023 16:20

Sampled By: T. Madruga

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	0.85	mmhos/cm	0.01	1		07/26/23 14:25	SM 2510 B		BEG0838
Electrical Conductivity umhos	849	umhos/cm	10.0	1		07/26/23 14:25	SM 2510 B		BEG0838
Nitrate Nitrogen as NO3N	12.8	mg/L	0.1	1	10	07/21/23 02:35	EPA 300.0		BEG0713
pH	7.8	units	1.0	1		07/26/23 14:25	SM 4500-H+	H	BEG0838
Total Filterable Solids (TDS)	547	mg/L	10.0	1		07/27/23 15:48	SM 2540 C		BEG0787
Temperature	25.0	°C	0.0	1		07/26/23 14:25	SM 2510 B		BEG0838
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		07/24/23 11:45	SM 4500-NH3 C		BEG0809
Total Nitrogen	12.8	mg/L	1.00	1		07/24/23 11:45	SM 4500-NH3 C		BEG0809

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8119 Ellington Ave
Hilmar, CA 95324

Account# 00-0019840
Account Manager: Ben Nydam
Submitted By: Rui & John Avila
Ranch: Red Top

Received: 07/20/2023 15:29
Reported: 07/31/2023 09:05

Sample Results
(Continued)

Sample: DW #27
23G1476-04 (Water)

Sampled: 7/19/2023 16:30

Sampled By: T. Madruga

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	0.34	mmhos/cm	0.01	1		07/26/23 14:27	SM 2510 B		BEG0838
Electrical Conductivity umhos	344	umhos/cm	10.0	1		07/26/23 14:27	SM 2510 B		BEG0838
Nitrate Nitrogen as NO3N	1.4	mg/L	0.1	1	10	07/21/23 02:54	EPA 300.0		BEG0713
pH	8.2	units	1.0	1		07/26/23 14:27	SM 4500-H+	H	BEG0838
Total Filterable Solids (TDS)	223	mg/L	10.0	1		07/27/23 15:48	SM 2540 C		BEG0787
Temperature	25.0	°C	0.0	1		07/26/23 14:27	SM 2510 B		BEG0838
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		07/24/23 11:46	SM 4500-NH3 C		BEG0809
Total Nitrogen	1.44	mg/L	1.00	1		07/24/23 11:46	SM 4500-NH3 C		BEG0809

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8119 Ellington Ave
Hilmar, CA 95324

Account# 00-0019840
Account Manager: Ben Nydam
Submitted By: Rui & John Avila
Ranch: Red Top

Received: 07/20/2023 15:29
Reported: 07/31/2023 09:05

Sample Results
(Continued)

Sample: DW #28
23G1476-05 (Water)

Sampled: 7/19/2023 16:40

Sampled By: T. Madruga

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	0.33	mmhos/cm	0.01	1		07/26/23 14:28	SM 2510 B		BEG0838
Electrical Conductivity umhos	327	umhos/cm	10.0	1		07/26/23 14:28	SM 2510 B		BEG0838
Nitrate Nitrogen as NO3N	1.8	mg/L	0.1	1	10	07/21/23 03:14	EPA 300.0		BEG0713
pH	8.1	units	1.0	1		07/26/23 14:28	SM 4500-H+	H	BEG0838
Total Filterable Solids (TDS)	217	mg/L	10.0	1		07/27/23 15:48	SM 2540 C		BEG0787
Temperature	25.0	°C	0.0	1		07/26/23 14:28	SM 2510 B		BEG0838
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		07/24/23 11:47	SM 4500-NH3 C		BEG0809
Total Nitrogen	1.75	mg/L	1.00	1		07/24/23 11:47	SM 4500-NH3 C		BEG0809

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Hilmar, CA 95324

Account# 00-0019840
Account Manager: Ben Nydam
Submitted By: Rui & John Avila
Ranch: Red Top

Received: 07/20/2023 15:29
Reported: 07/31/2023 09:05

Sample Results
(Continued)

Sample: DW #8
23G1476-06 (Water)

Sampled: 7/19/2023 16:50

Sampled By: T. Madruga

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	0.97	mmhos/cm	0.01	1		07/26/23 14:29	SM 2510 B		BEG0838
Electrical Conductivity umhos	966	umhos/cm	10.0	1		07/26/23 14:29	SM 2510 B		BEG0838
Nitrate Nitrogen as NO3N	20.0	mg/L	0.1	1	10	07/21/23 03:34	EPA 300.0		BEG0713
pH	7.7	units	1.0	1		07/26/23 14:29	SM 4500-H+	H	BEG0838
Total Filterable Solids (TDS)	647	mg/L	10.0	1		07/27/23 15:48	SM 2540 C		BEG0787
Temperature	25.0	°C	0.0	1		07/26/23 14:29	SM 2510 B		BEG0838
Kjeldahl Nitrogen (TKN), Total	ND	mg/L	1.00	1		07/24/23 11:48	SM 4500-NH3 C		BEG0809
Total Nitrogen	20.0	mg/L	1.00	1		07/24/23 11:48	SM 4500-NH3 C		BEG0809

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R & J Avila Inc
8119 Ellington Ave
Hilmar, CA 95324

Account# 00-0019840
Account Manager: Ben Nydam
Submitted By: Rui & John Avila
Ranch: Red Top

Received: 07/20/2023 15:29
Reported: 07/31/2023 09:05

Quality Control

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
Batch: BEG0713									
Blank (BEG0713-BLK1)									
Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared & Analyzed: 7/20/2023				
Blank (BEG0713-BLK2)									
Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared & Analyzed: 7/20/2023				
Blank (BEG0713-BLK3)									
Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared: 7/20/2023 Analyzed: 7/21/2023				
LCS (BEG0713-BS1)									
Nitrate Nitrogen as NO3N	5.0	0.1	mg/L	5.000	99.4	90-110			
LCS (BEG0713-BS2)									
Nitrate Nitrogen as NO3N	4.9	0.1	mg/L	5.000	98.4	90-110			
Duplicate (BEG0713-DUP1)									
Nitrate Nitrogen as NO3N	0.04	0.1	mg/L	0.05			8.51	10	
Duplicate (BEG0713-DUP2)									
Nitrate Nitrogen as NO3N	0.9	0.1	mg/L	0.9			1.02	10	
Matrix Spike (BEG0713-MS1)									
Nitrate Nitrogen as NO3N	5.0	0.1	mg/L	5.000	0.05	98.5	90-110		
Matrix Spike (BEG0713-MS2)									
Nitrate Nitrogen as NO3N	5.8	0.1	mg/L	5.000	0.9	98.7	90-110		
Reference (BEG0713-SRM1)									
Nitrate Nitrogen as NO3N	10.0		mg/L	10.00	99.9	90-110			
Reference (BEG0713-SRM2)									
Nitrate Nitrogen as NO3N	9.8		mg/L	10.00	98.1	90-110			
Reference (BEG0713-SRM3)									
Nitrate Nitrogen as NO3N	9.9		mg/L	10.00	98.8	90-110			

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R & J Avila Inc
8119 Ellington Ave
Hilmar, CA 95324

Account# 00-0019840
Account Manager: Ben Nydam
Submitted By: Rui & John Avila
Ranch: Red Top

Received: 07/20/2023 15:29
Reported: 07/31/2023 09:05

Quality Control
(Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
Batch: BEG0787									
Blank (BEG0787-BLK1)									
Total Filterable Solids (TDS)	ND	10.0	mg/L		Prepared: 7/20/2023 Analyzed: 7/27/2023				
LCS (BEG0787-BS1)					Prepared: 7/20/2023 Analyzed: 7/27/2023				
Total Filterable Solids (TDS)	26.2	10.0	mg/L	2000	1.31	0-200			
Duplicate (BEG0787-DUP1)		Source: 23G1476-01			Prepared: 7/20/2023 Analyzed: 7/27/2023				
Total Filterable Solids (TDS)	497	10.0	mg/L	493			0.673	10	
Duplicate (BEG0787-DUP2)		Source: 23G1520-01			Prepared: 7/20/2023 Analyzed: 7/27/2023				
Total Filterable Solids (TDS)	837	10.0	mg/L	820			2.01	10	
Reference (BEG0787-SRM1)					Prepared: 7/20/2023 Analyzed: 7/27/2023				
Total Filterable Solids (TDS)	330		mg/L	325.0	102	90-110			
Reference (BEG0787-SRM2)					Prepared: 7/20/2023 Analyzed: 7/27/2023				
Total Filterable Solids (TDS)	487		mg/L	495.0	98.3	90-110			

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Submitted By: Rui & John Avila
Ranch: Red Top

Received: 07/20/2023 15:29
Reported: 07/31/2023 09:05

Quality Control
(Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEG0809									
Blank (BEG0809-BLK1)									
Kjeldahl Nitrogen (TKN), Total									
ND 1.00 mg/L Prepared: 7/21/2023 Analyzed: 7/24/2023									
Total Nitrogen									
ND 1.00 mg/L									
Blank (BEG0809-BLK2)									
Kjeldahl Nitrogen (TKN), Total									
ND 1.00 mg/L Prepared: 7/21/2023 Analyzed: 7/24/2023									
Total Nitrogen									
ND 1.00 mg/L									
LCS (BEG0809-BS1)									
Kjeldahl Nitrogen (TKN), Total									
5.57 1.00 mg/L Prepared: 7/21/2023 Analyzed: 7/24/2023									
5.709 97.5 90-110									
LCS (BEG0809-BS2)									
Kjeldahl Nitrogen (TKN), Total									
5.31 1.00 mg/L Prepared: 7/21/2023 Analyzed: 7/24/2023									
5.709 93.0 90-110									
Duplicate (BEG0809-DUP1)									
Kjeldahl Nitrogen (TKN), Total									
ND 1.40 mg/L Prepared: 7/21/2023 Analyzed: 7/24/2023									
ND 10									
Duplicate (BEG0809-DUP2)									
Kjeldahl Nitrogen (TKN), Total									
ND 1.40 mg/L Prepared: 7/21/2023 Analyzed: 7/24/2023									
ND 10									
Matrix Spike (BEG0809-MS1)									
Kjeldahl Nitrogen (TKN), Total									
9.32 1.40 mg/L Prepared: 7/21/2023 Analyzed: 7/24/2023									
7.992 ND 117 90-110									
Matrix Spike (BEG0809-MS2)									
Kjeldahl Nitrogen (TKN), Total									
8.23 1.40 mg/L Prepared: 7/21/2023 Analyzed: 7/24/2023									
7.992 ND 103 90-110									
Reference (BEG0809-SRM1)									
Kjeldahl Nitrogen (TKN), Total									
23.4 mg/L Prepared: 7/21/2023 Analyzed: 7/24/2023									
23.80 98.4 90-110									

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Submitted By: Rui & John Avila
Ranch: Red Top

Received: 07/20/2023 15:29
Reported: 07/31/2023 09:05

Quality Control
(Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
Batch: BEG0838									
Blank (BEG0838-BLK1)									
Prepared: 7/24/2023 Analyzed: 7/26/2023									
pH	5.5	1.0	units						
Electrical Conductivity	ND	0.01	mmhos/cm						
Temperature	25.0	0.0	°C						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
Blank (BEG0838-BLK2)									
Prepared: 7/24/2023 Analyzed: 7/26/2023									
pH	5.9	1.0	units						
Electrical Conductivity	ND	0.01	mmhos/cm						
Temperature	25.0	0.0	°C						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
Blank (BEG0838-BLK3)									
Prepared: 7/24/2023 Analyzed: 7/26/2023									
pH	6.0	1.0	units						
Electrical Conductivity	ND	0.01	mmhos/cm						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
Temperature	25.0	0.0	°C						
Duplicate (BEG0838-DUP1)									
Source: 23G1468-01									
Prepared: 7/24/2023 Analyzed: 7/26/2023									
pH	7.6	1.0	units		7.6		0.264	10	
Electrical Conductivity	2.35	0.01	mmhos/cm		2.37		0.729	10	
Electrical Conductivity umhos	2350	10.0	umhos/cm		2370		0.729	10	
Duplicate (BEG0838-DUP2)									
Source: 23G1476-06									
Prepared: 7/24/2023 Analyzed: 7/26/2023									
Electrical Conductivity	0.96	0.01	mmhos/cm		0.97		0.894	10	
pH	7.7	1.0	units		7.7		0.260	10	
Electrical Conductivity umhos	958	10.0	umhos/cm		966		0.894	10	
Reference (BEG0838-SRM1)									
Prepared: 7/24/2023 Analyzed: 7/26/2023									
Electrical Conductivity	525	umhos/cm	538.0		97.5	90-110			
Reference (BEG0838-SRM2)									
Prepared: 7/24/2023 Analyzed: 7/26/2023									
pH	7.8	units	7.790		100	.7163-101.28			
Reference (BEG0838-SRM3)									
Prepared: 7/24/2023 Analyzed: 7/26/2023									
Electrical Conductivity	975	umhos/cm	1000		97.5	90-110			
Reference (BEG0838-SRM4)									
Prepared: 7/24/2023 Analyzed: 7/26/2023									
Electrical Conductivity	974	umhos/cm	1000		97.4	90-110			
Reference (BEG0838-SRM5)									
Prepared: 7/24/2023 Analyzed: 7/26/2023									
Electrical Conductivity	982	umhos/cm	1000		98.2	90-110			
Reference (BEG0838-SRM6)									
Prepared: 7/24/2023 Analyzed: 7/26/2023									

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Hilmar, CA 95324

Account# 00-0019840
Account Manager: Ben Nydam
Submitted By: Rui & John Avila
Ranch: Red Top

Received: 07/20/2023 15:29
Reported: 07/31/2023 09:05

Quality Control
(Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
Batch: BEG0838 (Continued)									
Reference (BEG0838-SRM6)									
pH	4.0		units	4.000		101	97.5-102.5		
Reference (BEG0838-SRM7)									
pH	4.0		units	4.000		101	97.5-102.5		
Reference (BEG0838-SRM8)									
pH	4.0		units	4.000		100	97.5-102.5		

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07/20/23 15:29

23G1476

6 DELLAVALLE LABORATORY, INC.

1910 W. McKinley Avenue, Suite 110 • Fresno, CA 93728
www.dellavallelab.com 559 233-6129 • 800 228-9896 • Fax 559 268-8174

Purchase Order No	Bill To:	19840	08
		Acct #	Cons #

No. Samples 6 No. of Bottles:

Water Type: Drinking Water Wastewater
 Ag Water Groundwater Monitoring Well

Results Need By _____

Name: R & J Avila Inc
 Address: 8119 Ellington Avenue
 City: Hilmar State: CA Zip: 95324
 Telephone: (209) 669-7919 Fax: (209) 634-4604
 Cell/Email: 209 678-3086 Rui / 209 678-1723 John frontdesk.randjavila@gmail.com

COPY TO:

REQUESTED BY: Rui & John Avila
 PROJECT Red Top
 ID CROP: N/A

[X] Copy of Chain [X] QA/QC Documents

Sampled By: T. Madruga

- Other: _____
- Analysis and Bottles Required: (Please indicate Analysis)**
- () DWW1: EC, pH, NO₃-N (NH₄-N Field Test)
 (1-1 Liter Plastic, Unpreserved) White Per Sample
- () DWW2: DWW1 Plus SO₄, CO₃, HCO₃, Cl, Ca, Mg, Na, TDS
 (1-1 Liter Plastic, Unpreserved) White Per Sample
- (X) DCW1: EC, NO₃-N, TDS + TKN & TN
 (1-1 Liter Plastic, Unpreserved) White Per Sample
- () DPW1: EC, pH, NO₃-N, NH₄-N, TKN, TDS, TP, TK
 (1-1 Liter Plastic, Unpreserved) White Per Sample
- () DPW2: DPW1 Plus SO₄, CO₃, HCO₃, Cl, Ca, Mg, Na
 (1-1 Liter Plastic, Unpreserved) White Per Sample
- () Other _____

Description of Samples		Date Sampled	Time Sampled	Rec'd Temp °C	Field NH ₄ -N
1	DW #16	7/19/2023	1600	0.5	ND
2	DW #18	7/19/2023	1610	-1.3	ND
3	DW #26	7/19/2023	1620	-1.7	ND
4	DW #27	7/19/2023	1630	-1.4	ND
5	DW #28	7/19/2023	1640	-0.4	ND
6	DW #8	7/19/2023	1650	-0.9	ND
7					
8					
9					
10					

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

CHAIN OF CU				
Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First	John Avila	R & J Avila, Inc.	7/19/2023 @ 1650	7/20/23 @ 900
Second	<i>[Signature]</i>	Dellavalle Laboratory, Inc.	7/20/23 @ 900	7/20
Third				
Fourth	<i>[Signature]</i>	DLI	7/20/23 15:29	

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

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

Invoicing Information:		Shipping	
Sampling hrs	\$	In	
Miles	\$	Out	
Consulting			
Amt Paid	Rec By	Check #	Date

Signature _____

Samples received in cooler with ice (coolant)

[] Yes [] No



07/20/23 15:29

23G1476

Shipping Information:	Fed Ex <input type="checkbox"/>	UPS <input type="checkbox"/>	GSO <input type="checkbox"/>	Picked-Up <input checked="" type="checkbox"/>	Walk In <input type="checkbox"/>	DLI Sampler <input type="checkbox"/>				
Ontrac <input type="checkbox"/>	PMS <input type="checkbox"/>	USPS <input type="checkbox"/>	Other <input type="checkbox"/>							
Shipping Container:	Ice Chest <input checked="" type="checkbox"/>	None <input type="checkbox"/>	Box <input type="checkbox"/>							
Refrigerant:	Wet Ice: <input checked="" type="checkbox"/>	Blue Ice: <input type="checkbox"/>	None: <input type="checkbox"/>							
Container(s) Received	1	2	3	4	5	6	7	8	9	10
Plastics:										
100 mL sterile plastic Na ₂ S ₂ O ₃ (Green)										
250 mL unpreserved (White)										
250 mL HNO ₃ (Red)										
250 mL H ₂ SO ₄ (Yellow)										
500 mL unpreserved (White)										
500 mL HNO ₃ (Red)										
500 mL H ₂ SO ₄ (Yellow)										
1 L unpreserved (White)										
1 L unpreserved (BOD) (Purple)										
1 L HNO ₃ (Red)										
1 L H ₂ SO ₄ (Yellow)										
VOA Vials in sets of 3:										
40 mL VOA, HCl (Blue)										
40 mL VOA, Na ₂ S ₂ O ₃ (Green)										
40 mL VOA, unpreserved (White)										
Glass:										
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)										
1 L AG HCl (Blue)										
Special:										
Cr ⁶⁺ w/Borate/HCO ₃ /CO ₃										
Cyanide - 500 mL NaOH										
Asbestos - 2 - 1L P wrapped in foil										
500 mL or 1 L AP Na ₂ S ₂ O ₃ (Green)										
1 L AG or P NaOH + ZnAc (Sulfide)										
Chlorite/Bromate 250 mL AG with EDA										
TTHM										
HAA5										
40 mL VOA, Na ₂ S ₂ O ₃ + MCAA										

pH Strips
Lot 10BDH4501
Exp. Jan. 2025



R & J Avila Inc
8119 Ellington Ave
Hilmar, CA 95324

Account# 00-0019840
Account Manager: Ben Nydam
Submitted By: Rui & John Avila
Ranch: Red Top Jerseys

Received: 11/28/2023 13:50
Reported: 12/04/2023 09:31

Samples in this Report

Lab ID	Sample	Matrix	Sampled By	Crop	Date Sampled
23K1221-01	Domestic Well #2	Ag Water	T. Madruga		11/27/2023 15:00
23K1221-02	Domestic Well #4	Ag Water	T. Madruga		11/27/2023 15:30
23K1221-03	DW - 30	Ag Water	T. Madruga		11/27/2023 16:00

Default Cooler Temperature on Receipt °C: 2.8
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

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Hilmar, CA 95324

Account# 00-0019840
Account Manager: Ben Nydam
Submitted By: Rui & John Avila
Ranch: Red Top Jerseys

Received: 11/28/2023 13:50
Reported: 12/04/2023 09:31

Sample Results

**Sample: Domestic Well #2
23K1221-01 (Water)**

Sampled: 11/27/2023 15:00

Sampled By: T. Madruga

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	0.82	mmhos/cm	0.01	1		11/29/23 14:14	SM 2510 B		BEK0810
Electrical Conductivity umhos	815	umhos/cm	10.0	1		11/29/23 14:14	SM 2510 B		BEK0810
Ammonia (as N)	ND	mg/L	0.00	1		11/27/23 15:00	Field		BEK0803
Nitrate Nitrogen as NO3N	10.9	mg/L	0.1	1	10	11/29/23 01:36	EPA 300.0		BEK0809
Temperature	25.0	units	0.0	1		11/29/23 14:14	SM 4500-H+	H	BEK0810
pH	7.8	units	1.0	1		11/29/23 14:14	SM 4500-H+	H	BEK0810

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8119 Ellington Ave
Hilmar, CA 95324

Account# 00-0019840
Account Manager: Ben Nydam
Submitted By: Rui & John Avila
Ranch: Red Top Jerseys

Received: 11/28/2023 13:50
Reported: 12/04/2023 09:31

Sample: Domestic Well #4
23K1221-02 (Water)

Sampled: 11/27/2023 15:30

Sampled By: T. Madruga

Sample Results

(Continued)

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	0.46	mmhos/cm	0.01	1		11/29/23 14:15	SM 2510 B		BEK0810
Electrical Conductivity umhos	459	umhos/cm	10.0	1		11/29/23 14:15	SM 2510 B		BEK0810
Ammonia (as N)	ND	mg/L	0.00	1		11/27/23 15:30	Field		BEK0803
Nitrate Nitrogen as NO3N	4.9	mg/L	0.1	1	10	11/29/23 01:56	EPA 300.0		BEK0809
Temperature	25.0	units	0.0	1		11/29/23 14:15	SM 4500-H+	H	BEK0810
pH	8.0	units	1.0	1		11/29/23 14:15	SM 4500-H+	H	BEK0810

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R & J Avila Inc
8119 Ellington Ave
Hilmar, CA 95324

Account# 00-0019840
Account Manager: Ben Nydam
Submitted By: Rui & John Avila
Ranch: Red Top Jerseys

Received: 11/28/2023 13:50
Reported: 12/04/2023 09:31

Sample Results
(Continued)

Sample: DW - 30
23K1221-03 (Water)

Sampled: 11/27/2023 16:00

Sampled By: T. Madruga

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	0.39	mmhos/cm	0.01	1		11/30/23 15:07	SM 2510 B		BEK0875
Electrical Conductivity umhos	393	umhos/cm	10.0	1		11/30/23 15:07	SM 2510 B		BEK0875
Ammonia (as N)	ND	mg/L	0.00	1		11/27/23 16:00	Field		BEK0803
Nitrate Nitrogen as NO3N	3.0	mg/L	0.1	1	10	11/29/23 02:16	EPA 300.0		BEK0809
Temperature	25.0	units	0.0	1		11/30/23 15:07	SM 4500-H+	H	BEK0875
pH	7.7	units	1.0	1		11/30/23 15:07	SM 4500-H+	H	BEK0875

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8119 Ellington Ave
Hilmar, CA 95324

Account# 00-0019840
Account Manager: Ben Nydam
Submitted By: Rui & John Avila
Ranch: Red Top Jerseys

Received: 11/28/2023 13:50
Reported: 12/04/2023 09:31

Quality Control

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
Batch: BEK0809									
Blank (BEK0809-BLK1)									
Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared & Analyzed: 11/28/2023				
Blank (BEK0809-BLK2)									
Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared & Analyzed: 11/28/2023				
Blank (BEK0809-BLK3)									
Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared: 11/28/2023	Analyzed: 11/29/2023			
LCS (BEK0809-BS1)									
Nitrate Nitrogen as NO3N	5.2	0.1	mg/L	5.000	103	90-110			
LCS (BEK0809-BS2)									
Nitrate Nitrogen as NO3N	5.5	0.1	mg/L	5.000	110	90-110			
Duplicate (BEK0809-DUP1)									
Nitrate Nitrogen as NO3N	4.1	0.1	mg/L	4.0			1.74	10	
Duplicate (BEK0809-DUP2)									
Nitrate Nitrogen as NO3N	4.9	0.1	mg/L	4.9			0.123	10	
Matrix Spike (BEK0809-MS1)									
Nitrate Nitrogen as NO3N	9.2	0.1	mg/L	5.000	4.0	104	90-110		
Matrix Spike (BEK0809-MS2)									
Nitrate Nitrogen as NO3N	10.2	0.1	mg/L	5.000	4.9	107	90-110		
Reference (BEK0809-SRM1)									
Nitrate Nitrogen as NO3N	10.3		mg/L	10.00	103	90-110			
Reference (BEK0809-SRM2)									
Nitrate Nitrogen as NO3N	10.3		mg/L	10.00	103	90-110			
Reference (BEK0809-SRM3)									
Nitrate Nitrogen as NO3N	10.3		mg/L	10.00	103	90-110			

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R & J Avila Inc
8119 Ellington Ave
Hilmar, CA 95324

Account# 00-0019840
Account Manager: Ben Nydam
Submitted By: Rui & John Avila
Ranch: Red Top Jerseys

Received: 11/28/2023 13:50
Reported: 12/04/2023 09:31

Quality Control
(Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
Batch: BEK0810									
Blank (BEK0810-BLK1)									
Prepared: 11/28/2023 Analyzed: 11/29/2023									
Temperature	25.0	0.0	units						
Electrical Conductivity	ND	0.01	mmhos/cm						
pH	6.2	1.0	units						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
Blank (BEK0810-BLK2)									
Prepared: 11/28/2023 Analyzed: 11/29/2023									
Temperature	25.0	0.0	units						
Electrical Conductivity	ND	0.01	mmhos/cm						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
pH	7.8	1.0	units						
Blank (BEK0810-BLK3)									
Prepared: 11/28/2023 Analyzed: 11/29/2023									
Electrical Conductivity	ND	0.01	mmhos/cm						
Temperature	25.0	0.0	units						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
pH	7.8	1.0	units						
Duplicate (BEK0810-DUP1)									
Source: 23K1215-02 Prepared: 11/28/2023 Analyzed: 11/29/2023									
Electrical Conductivity	1.83	0.01	mmhos/cm		1.85		0.766	10	
pH	7.8	1.0	units		7.8		0.128	10	
Electrical Conductivity umhos	1830	10.0	umhos/cm		1850		0.766	10	
Duplicate (BEK0810-DUP2)									
Source: 23K1221-02 Prepared: 11/28/2023 Analyzed: 11/29/2023									
Electrical Conductivity	0.46	0.01	mmhos/cm		0.46		0.810	10	
Electrical Conductivity umhos	455	10.0	umhos/cm		459		0.810	10	
pH	8.0	1.0	units		8.0		0.00	10	
Reference (BEK0810-SRM1)									
Prepared: 11/28/2023 Analyzed: 11/29/2023									
Electrical Conductivity	565	umhos/cm	538.0		105	90-110			
Reference (BEK0810-SRM2)									
Prepared: 11/28/2023 Analyzed: 11/29/2023									
Electrical Conductivity	ND	0.01	mmhos/cm			90-110			
Reference (BEK0810-SRM3)									
Prepared: 11/28/2023 Analyzed: 11/29/2023									
Electrical Conductivity	1070	umhos/cm	1000		107	90-110			
Reference (BEK0810-SRM4)									
Prepared: 11/28/2023 Analyzed: 11/29/2023									
pH	6.6	1.0	units			97.5-102.5			
Reference (BEK0810-SRM5)									
Prepared: 11/28/2023 Analyzed: 11/29/2023									
pH	6.5	1.0	units			97.5-102.5			
Reference (BEK0810-SRM6)									
Prepared: 11/28/2023 Analyzed: 11/29/2023									

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Received: 11/28/2023 13:50
Reported: 12/04/2023 09:31

Quality Control
(Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
Batch: BEK0810 (Continued)									
Reference (BEK0810-SRM6)									
pH	4.0		units	4.000		101	97.5-102.5		
Reference (BEK0810-SRM7)									
pH	4.0		units	4.000		100	67021-101.3		

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Submitted By: Rui & John Avila
Ranch: Red Top Jerseys

Received: 11/28/2023 13:50
Reported: 12/04/2023 09:31

Quality Control
(Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
Batch: BEK0875									
Blank (BEK0875-BLK1)									
Prepared: 11/29/2023 Analyzed: 11/30/2023									
Temperature	25.0	0.0	units						
Electrical Conductivity	ND	0.01	mmhos/cm						
pH	6.4	1.0	units						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
Blank (BEK0875-BLK2)									
Prepared: 11/29/2023 Analyzed: 11/30/2023									
Temperature	25.0	0.0	units						
Electrical Conductivity	ND	0.01	mmhos/cm						
pH	7.9	1.0	units						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
Blank (BEK0875-BLK3)									
Prepared: 11/29/2023 Analyzed: 11/30/2023									
Temperature	25.0	0.0	units						
Electrical Conductivity	ND	0.01	mmhos/cm						
pH	6.5	1.0	units						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
Duplicate (BEK0875-DUP1)									
Source: 23K1231-01 Prepared: 11/29/2023 Analyzed: 11/30/2023									
Electrical Conductivity	12.1	0.01	mmhos/cm		12.0		0.828	10	
pH	7.4	1.0	units		7.4		0.00	10	
Electrical Conductivity umhos	12100	10.0	umhos/cm		12000		0.829	10	
Duplicate (BEK0875-DUP2)									
Source: 23K1350-01 Prepared: 11/29/2023 Analyzed: 11/30/2023									
Electrical Conductivity	0.67	0.01	mmhos/cm		0.68		1.09	10	
Electrical Conductivity umhos	672	10.0	umhos/cm		680		1.09	10	
pH	6.3	1.0	units		6.3		0.159	10	
Reference (BEK0875-SRM1)									
Prepared: 11/29/2023 Analyzed: 11/30/2023									
Electrical Conductivity	435		umhos/cm	426.0		102	90-110		
Reference (BEK0875-SRM2)									
Prepared: 11/29/2023 Analyzed: 11/30/2023									
pH	7.5		units	7.520		100	67021-101.3		
Reference (BEK0875-SRM3)									
Prepared: 11/29/2023 Analyzed: 11/30/2023									
Electrical Conductivity	1030		umhos/cm	1000		103	90-110		
Electrical Conductivity umhos	1030		umhos/cm	1000		103	90-110		
Reference (BEK0875-SRM4)									
Prepared: 11/29/2023 Analyzed: 11/30/2023									
Electrical Conductivity	1060		umhos/cm	1000		106	90-110		
Electrical Conductivity umhos	1060		umhos/cm	1000		106	90-110		
Reference (BEK0875-SRM5)									
Prepared: 11/29/2023 Analyzed: 11/30/2023									
Electrical Conductivity	1050		umhos/cm	1000		105	90-110		

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Account Manager: Ben Nydam
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Received: 11/28/2023 13:50
Reported: 12/04/2023 09:31

Quality Control
(Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
Batch: BEK0875 (Continued)									
Reference (BEK0875-SRM5)									
Electrical Conductivity umhos	1050		umhos/cm	1000		105	90-110		
Reference (BEK0875-SRM6)									
pH	4.0		units	4.000		100	97.5-102.5		
Reference (BEK0875-SRM7)									
pH	4.0		units	4.000		100	97.5-102.5		
Reference (BEK0875-SRM8)									
pH	4.0		units	4.000		100	97.5-102.5		

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11/28/23 13:50

23K1221

JL

DELLAVALLE LABORATORY, INC.

1910 W. McKinley Avenue, Suite 110 • Fresno, CA 93728
 www.dellavallelab.com 559 233-6129 • 800 228-9896 • Fax 559 268-8174

Purchase Order No	Bill To:	Acct #	Cons #
		19840	08
Results Need By			
Name: R & J Avila Inc Address: 8119 Ellington Avenue City: Hilmar State: CA Zip: 95324 Telephone: (209) 669-7919 Fax: (209) 634-4604 Cell/Email: 209 678-3086 Rui / 209 678-1723 John frontdesk.randjavila@gmail.com			
COPY TO:			
REQUESTED BY:	Rui & John Avila		
PROJECT	Red Top Jerseys		
ID CROP:	N/A		

[X] Copy of Chain [X] QA/QC Documents

Sampled By: T. Madruga

No. Samples 3 No. of Bottles: 3

Water Type: Drinking Water Wastewater
 Ag Water Groundwater Monitoring Well

Other:Analysis and Bottles Required: (Please indicate Analysis)

() DWW1: EC, pH, NO₃-N (NH₄-N Field Test)

(1-1 Liter Plastic, Unpreserved) White Per Sample

() DWW2: DWW1 Plus SO₄, CO₃, HCO₃, Cl, Ca, Mg, Na, TDS

(1-1 Liter Plastic, Unpreserved) White Per Sample

() DCW1: EC, NO₃-N, TDS + TKN & TN

(1-1 Liter Plastic, Unpreserved) White Per Sample

() DPW1: EC, pH, NO₃-N, NH₄-N, TKN, TDS, TP, TK

(1-1 Liter Plastic, Unpreserved) White Per Sample

() DPW2: DPW1 Plus SO₄, CO₃, HCO₃, Cl, Ca, Mg, Na

(1-1 Liter Plastic, Unpreserved) White Per Sample

() Other

Description of Samples		Date Sampled	Time Sampled	Rec'd Temp °C	Field NH ₄ -N
1	Domestic Well #2	11/27/2023	1500	2.8	ND
2	Domestic Well #4	11/27/2023	1530	2.2	ND
3	DW - 30	11/27/2023	1600	2.3	ND
4					
5					
6					
7					
8					
9					
10					

CHAIN OF CUSTODY

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First	John Avila	R & J Avila, Inc.	11/27/2023 @ 1600	11/28/2023 @ 900
Second	JLF	Dellavalle Laboratory, Inc.	11/28/2023 @ 900	11/28/2023 1:20
Third				
Fourth	WJ	DLT	11/28/2023 13:50	

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

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

IR Thermometer SN: 192603727

Correction Factor: 0°C

Calibration Due: 12/22/2023

arbitration, reasonable attorneys'

Location: Laboratory

Invoicing Information:		Shipping	
Sampling hrs		\$	In
Miles		\$	Out
Consulting			
Amt Paid	Rec By	Check #	Date

Signature

Samples received in cooler with ice (coolant)

[] Yes [] No



11/28/23 13:50

23K1221

Environmental Protection Agency

Shipping Information: Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> GSO <input type="checkbox"/> Picked-Up <input checked="" type="checkbox"/> Walk In <input type="checkbox"/> DLI Sampler <input type="checkbox"/> Ontrac <input type="checkbox"/> PMS <input type="checkbox"/> USPS <input type="checkbox"/> Other _____										
Shipping Container: Ice Chest <input checked="" type="checkbox"/> None <input type="checkbox"/> Box <input type="checkbox"/>										
Refrigerant: Wet Ice: <input checked="" type="checkbox"/> Blue Ice: <input type="checkbox"/> None: <input type="checkbox"/>										
Container(s) Received	1	2	3	4	5	6	7	8	9	10
Plastics:										
100 mL sterile plastic Na ₂ S ₂ O ₃ (Green)										
250 mL unpreserved (White)										
250 mL HNO ₃ (Red)										
250 mL H ₂ SO ₄ (Yellow)										
500 mL unpreserved (White)										
500 mL HNO ₃ (Red)										
500 mL H ₂ SO ₄ (Yellow)										
1 L unpreserved (White)										
1 L unpreserved (BOD) (Purple)										
1 L HNO ₃ (Red)										
1 L H ₂ SO ₄ (Yellow)										
VOA Vials in sets of 3:										
40 mL VOA, HCl (Blue)										
40 mL VOA, Na ₂ S ₂ O ₃ (Green)										
40 mL VOA, unpreserved (White)										
Glass:										
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)										
1 L AG HCl (Blue)										
Special:										
Cr ⁶⁺ w/Borate/HCO ₃ /CO ₃										
Cyanide - 500 mL NaOH										
Asbestos - 2 - 1L P wrapped in foil										
500 mL or 1 L AP Na ₂ S ₂ O ₃ (Green)										
1 L AG or P NaOH + ZnAc (Sulfide)										
Chlorite/Bromate 250 mL AG with EDA										
TTHM										
HAA5										
40 mL VOA, Na ₂ S ₂ O ₃ + MCAA										

ATTACHMENT D

Manure/Process Wastewater Tracking Manifest For Existing Milk Cow Dairies

Instructions:

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

Operator Information:				
Name of Operator: <u>SCOTT OR MIKE WICKSTROM</u>				
Name of Dairy Facility: <u>Red-Top Jerseys</u>				
Facility Address: <u>21463 Road 4 Chowchilla, CA 93610</u>				
Number and Street	City	Zip Code		
Contact Person Name and Phone Number: Mike/Scott Wickstrom <u>(209) 634-2895</u>				
Name	Phone Number			
Manure/Process Wastewater Hauler Information:				
Name of Hauling Company/Person: <u>DOKES AG SERVICES</u>				
Address of Hauling Company /Person: <u>23231 SECOND AVE STEVENS</u>				
Number and Street	City	Zip Code		
Contact Person: <u>Phil DOKES</u>	<u>(209) 049-4503</u>			
Name	Phone Number			
Destination Information:				
Composting Facility / Broker / Farmer / Other (identify) <input checked="" type="checkbox"/> (please circle one)				
Contact information of Composting Facility, Broker, Farmer, or Other (as identified above):				
A & E Farms 2025 Washington Rd. El Nido, CA 95317 (209) 634-2895				
Name	Number and Street	City	Zip Code	Phone Number
Manure/Process Wastewater Destination Address or Assessor's Parcel Number:				
SAME AS ABOVE				
Number and Street	City	Zip Code	Assessor's Parcel Number	
Dates Hauled:	<u>5/1/23</u>			
Amount Hauled:				
Enter the amount of manure hauled in tons or cubic yards (indicate the units used), the manure solids content (if amount reported in tons) or manure density (if amount reported in cubic yards), and the method used to calculate the amount:				
Manure: <u>1320</u>	Tons	or Cubic Yards (indicate which units used)		
Manure Solids Content (if amount reported in tons): <u>0 72.3%</u>				
Manure Density (if amount reported in cubic yards): _____				

Attachment D
Waste Discharge Requirements General Order No. R5-2007-0035
Existing Milk Cow Dairies

D-2

Method used to determine amount of manure: @ 12 tons per load

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

Process Wastewater: _____ Gallons

Method used to determine volume of process wastewater: _____

Written Agreement:

Does the Operator have a written agreement (in compliance with Land Application Specification C.2 of Waste Discharge Requirements General Order No. R5-2007-0035) with any party that receives process wastewater from the Operator for its own use? (please check one)

Yes No

If the answer is no, the Operator agrees to have such a written agreement with any such party for any process wastewater transferred after **31 December 2007** to such party.

_____ (Operator shall provide initials here to acknowledge this requirement).

Certification:

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

Operator's Signature: Scott Wickstrom Scott Wickstrom (May 20, 2024 11:16 PDT) Date: May 20, 2024

Hauler's Signature: John Davis Date: _____

ATTACHMENT D

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

Instructions:

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

Operator Information: Name of Operator: <u>SCOTT OR MIKE WICKSTROM</u>				
Name of Dairy Facility: <u>Red-Top Jerseys</u>				
Facility Address: <u>21463 Road 4 Chowchilla, CA 93610</u>				
Number and Street	City	Zip Code		
Contact Person Name and Phone Number: Mike/Scott Wickstrom <u>(209) 634-2895</u>				
Name	Phone Number			
Manure/Process Wastewater Hauler Information:				
Name of Hauling Company/Person: <u>DOKES Ag SERVICES</u>				
Address of Hauling Company /Person: <u>23231 second Ave STEVINS</u>				
Number and Street	City	Zip Code		
Contact Person: <u>Phil Dokes</u>	<u>(209) 449-4503</u>			
Name	Phone Number			
Destination Information:				
Composting Facility / Broker / Farmer / Other (identify) <input checked="" type="checkbox"/> (please circle one)				
Contact information of Composting Facility, Broker, Farmer, or Other (as identified above):				
<u>A & E Farms 2025 Washington Rd. El Nido, CA 95317 (209) 634-2895</u>				
Name	Number and Street	City	Zip Code	Phone Number
Manure/Process Wastewater Destination Address or Assessor's Parcel Number: <u>SAME AS ABOVE</u>				
Number and Street	City	Zip Code	Assessor's Parcel Number	
Dates Hauled:	<u>9/30/23</u>			
Amount Hauled: Enter the amount of manure hauled in tons or cubic yards (indicate the units used), the manure solids content (if amount reported in tons) or manure density (if amount reported in cubic yards), and the method used to calculate the amount:				
Manure: <u>1097</u>	Tons or Cubic Yards (indicate which units used)			
Manure Solids Content (if amount reported in tons): <u>277.1</u>				
Manure Density (if amount reported in cubic yards):				

Attachment D
Waste Discharge Requirements General Order No. R5-2007-0035
Existing Milk Cow Dairies

D-2

Method used to determine amount of manure: 12 tons per load

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

Process Wastewater: _____ Gallons

Method used to determine volume of process wastewater: _____

Written Agreement:

Does the Operator have a written agreement (in compliance with Land Application Specification C.2 of Waste Discharge Requirements General Order No. R5-2007-0035) with any party that receives process wastewater from the Operator for its own use? (please check one)

Yes No

If the answer is no, the Operator agrees to have such a written agreement with any such party for any process wastewater transferred after **31 December 2007** to such party.

_____ (Operator shall provide initials here to acknowledge this requirement).

Certification:

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

Operator's Signature: Scott Wickstrom Scott Wickstrom (May 20, 2024 11:16 PDT) Date: May 20, 2024

Hauler's Signature: John Davis Date: _____

2023 Annual Report- Redtop Jerseys

Final Audit Report

2024-05-20

Created:	2024-05-20
By:	Kristen Jones (kjones@fragservices.com)
Status:	Signed
Transaction ID:	CBJCHBCAABAAHKZELGH9GcDjUMN5IYxtkDjpp7m1ke9f

"2023 Annual Report- Redtop Jerseys" History

-  Document created by Kristen Jones (kjones@fragservices.com)
2024-05-20 - 6:08:56 PM GMT
-  Document emailed to Scott Wickstrom (wjfi@live.com) for signature
2024-05-20 - 6:10:30 PM GMT
-  Email viewed by Scott Wickstrom (wjfi@live.com)
2024-05-20 - 6:15:12 PM GMT
-  Document e-signed by Scott Wickstrom (wjfi@live.com)
Signature Date: 2024-05-20 - 6:16:34 PM GMT - Time Source: server
-  Agreement completed.
2024-05-20 - 6:16:34 PM GMT



Adobe Acrobat Sign