

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: Belonave Ranch LLC

Physical address of dairy:

14461 Taft Highway

Number and Street

Bakersfield

City

Kern

County

93311

Zip Code

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

Date facility was originally placed in operation: 04/01/2004

Regional Water Quality Control Board Basin Plan designation: Tulare Basin

County Assessor Parcel Number(s) for dairy facility:

0184-0070-0033-0000

0184-0070-0035-0000

0184-0070-0036-0000

0814-0070-0034-0000

B. OPERATORS

Borba, George

Operator name: Borba, George

Telephone no.: (661) 837-8227

Landline

Cellular

14461 Taft Highway

Mailing Address Number and Street

Bakersfield

City

CA

State

93311

Zip Code

This operator is responsible for paying permit fees.

C. OWNERS

Borba, George

Legal owner name: Borba, George

Telephone no.: (661) 837-8227

Landline

Cellular

14461 Taft Highway

Mailing Address Number and Street

Bakersfield

City

CA

State

93311

Zip Code

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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	895	1,294	1,501	1,591	1,725
Number under roof	5,278	0	0	0	0	0
Maximum number	5,355	925	1,341	1,542	1,625	1,800
Average number	5,278	896	1,294	1,501	1,592	1,725
Avg live weight (lbs)	1,400	1,300	1,100	900		

Predominant milk cow breed: Holstein

Average milk production: 75 pounds per cow per day

B. MANURE GENERATED

Total manure excreted by the herd: 191,707.49 tons per reporting period

Total nitrogen from manure: 2,408,894.77 lbs per reporting period

After ammonia losses (30% loss applied): 1,686,226.34 lbs per reporting period

Total phosphorus from manure: 385,577.53 lbs per reporting period

Total potassium from manure: 1,028,123.93 lbs per reporting period

Total salt from manure: 2,691,181.50 lbs per reporting period

C. PROCESS WASTEWATER GENERATED

Process wastewater generated: 181,327,000 gallons

Total nitrogen generated: 594,533.24 lbs

$$\begin{aligned}
 & 181,327,000 \text{ gallons applied} \\
 & + 0 \text{ gallons exported} \\
 & - 0 \text{ gallons imported} \\
 & = 181,327,000 \text{ gallons generated}
 \end{aligned}$$

Total phosphorus generated: 73,342.79 lbs

Total potassium generated: 310,766.12 lbs

Total salt generated: 2,625,626.53 lbs

D. FRESH WATER SOURCES

Source Description	Type
Buena Vista Canal	Surface water
Dairy Barn N	Ground water
Dairy Barn S	Ground water
Farmers Canal	Surface water
Stine Canal	Surface water

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Source Description	Type
Well 10	Ground water
Well 11	Ground water
Well 13	Ground water
Well 14	Ground water
Well 16	Ground water
Well 17	Ground water
Well 18	Ground water
Well 2	Ground water
Well 3	Ground water
Well 4	Ground water
Well 5	Ground water
Well 6	Ground water
Well 7	Ground water
Well 8	Ground water
Well 9	Ground water

E. SUBSURFACE (TILE) DRAINAGE SOURCES

No subsurface (tile) drainage sources entered.

F. NUTRIENT IMPORTS

No dry manure nutrient imports entered.

No process wastewater nutrient imports entered.

No commercial or other nutrient imports entered.

G. NUTRIENT EXPORTS

No solid nutrient exports entered.

No liquid nutrient exports entered.

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

Field name	Controlled acres	Cropable acres	Total harvests	Type of waste applied	Parcel number
Field 1	78	78	2	both	0184-0070-0037-0000
Field 10	135	135	2	both	0184-0070-0035-0000
Field 11	139	139	2	both	0184-0100-0021-0000
Field 12	80	80	2	both	0184-0100-0021-0000 0184-0100-0023-0000
Field 13	94	94	2	both	0184-0100-0021-0000 0184-0100-0023-0000
Field 14 A	69	69	2	process wastewater	0184-0100-0020-0000
Field 14 B	69	69	3	both	0184-0100-0020-0000
Field 15 A	70	70	0	none	0184-0100-0022-0000
Field 15 B	70	70	0	none	0184-0100-0022-0000
Field 16	80	80	2	both	0184-0100-0025-0000
Field 17	78	78	2	both	0184-0100-0025-0000
Field 18	80	80	2	both	0184-0100-0027-0000
Field 19	79	79	2	both	0184-0100-0027-0000
Field 2	77	77	2	both	0184-0070-0026-0000
Field 20	140	140	0	none	0184-0100-0042-0000
Field 21	140	140	0	none	0184-0100-0044-0000
Field 22	91	91	0	none	0184-0410-0022-0000
Field 23	71	71	0	none	0184-0410-0022-0000
Field 24	82	82	0	none	0184-0410-0021-0000
Field 25	50	50	0	none	0184-0410-0021-0000
Field 26	90	90	0	none	0184-0410-0022-0000
Field 27	71	71	0	none	0184-0410-0022-0000
Field 28	77	77	0	none	0184-0410-0021-0000
Field 29	65	65	0	none	0184-0410-0021-0000
Field 3	78	78	2	both	0184-0070-0037-0000
Field 30	114	114	2	both	0184-0070-0023-0000 0184-0070-0024-0000
Field 31	16	16	2	both	0184-0070-0023-0000
Field 32	94	94	2	both	0184-0070-0023-0000 0184-0070-0024-0000
Field 33	89	89	1	both	0184-0070-0023-0000 0184-0070-0024-0000

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Field name	Controlled acres	Cropable acres	Total harvests	Type of waste applied	Parcel number
Field 34	74	74	1	manure	0184-0070-0014-0000 0184-0070-0015-0000 0184-0070-0021-0000
Field 35	64	64	1	process wastewater	0184-0070-0021-0000
Field 36	77	77	1	manure	0184-0070-0021-0000
Field 4	78	78	2	both	0184-0070-0026-0000
Field 5	156	156	2	both	0184-0070-0028-0000
Field 6	156	156	1	manure	0184-0070-0027-0000
Field 7	32	32	2	both	0184-0070-0034-0000
Field 8	44	44	2	both	0184-0070-0033-0000
Field 9	128	128	2	both	0184-0070-0036-0000
Totals for areas that were used for application	2,258	2,258	48		
Totals for areas that were not used for application	1,017	1,017	0		
Land application area totals	3,275	3,275	48		

B. CROPS AND HARVESTS

Field 1

Field name: Field 1

10/14/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 78 Plant date: 10/14/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/15/2023	1,270.00 ton	Dry-weight		69.2	14,090.00	3,130.00	22,000.00		10.50

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	15.00	165.00	25.50	124.50	0.00
Total actual harvest content	16.28	141.32	31.39	220.65	1,053.12

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Field 1

06/10/2023: Corn, silage

Crop: Corn, silage Acres planted: 78 Plant date: 06/10/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/12/2023	2,100.00 <i>ton</i>	Dry-weight		70.1	18,020.00	2,610.00	17,200.00		6.50
Anticipated harvest content									
Total actual harvest content									

Field 10

Field name: Field 10

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

Crop: Wheat, silage, soft dough Acres planted: 135 Plant date: 11/08/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/23/2023	2,225.00 <i>ton</i>	Dry-weight		62.8	13,462.00	3,440.00	18,500.00		8.50
Anticipated harvest content									
Total actual harvest content									

06/17/2023: Corn, silage

Crop: Corn, silage Acres planted: 135 Plant date: 06/17/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/25/2023	3,485.00 <i>ton</i>	Dry-weight		61.7	12,817.00	2,590.00	14,400.00		5.60
Anticipated harvest content									
Total actual harvest content									

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Field 11

Field name: Field 11

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

Crop: Wheat, silage, soft dough Acres planted: 139 Plant date: 10/10/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/27/2023	2,185.00 ton	Dry-weight		60.3	18,650.00	3,080.00	19,900.00		10.80

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	15.00	165.00	25.50	124.50	0.00
Total actual harvest content	15.72	232.77	38.44	248.38	1,347.97

06/19/2023: Corn, silage

Crop: Corn, silage Acres planted: 139 Plant date: 06/19/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/04/2023	3,565.00 ton	Dry-weight		62.2	19,495.00	2,860.00	17,100.00		5.40

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	25.00	200.00	37.50	165.00	0.00
Total actual harvest content	25.65	378.00	55.45	331.56	1,047.03

Field 12

Field name: Field 12

11/16/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 80 Plant date: 11/16/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/28/2023	1,320.00 ton	Dry-weight		61.5	14,745.00	3,190.00	22,100.00		11.50

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	15.00	165.00	25.50	124.50	0.00
Total actual harvest content	16.50	187.34	40.53	280.78	1,461.08

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Field 12

06/23/2023: Corn, silage

Crop: Corn, silage Acres planted: 80 Plant date: 06/23/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/05/2023	2,000.00 ton	Dry-weight		74.4	24,550.00	3,160.00	22,200.00		7.20

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	25.00	200.00	37.50	165.00	0.00
Total actual harvest content	25.00	314.24	40.45	284.16	921.60

Field 13

Field name: Field 13

11/18/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 94 Plant date: 11/18/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/28/2023	1,495.00 ton	Dry-weight		74.4	14,745.00	3,190.00	22,100.00		11.50

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	15.00	165.00	25.50	124.50	0.00
Total actual harvest content	15.90	120.07	25.98	179.96	936.44

06/26/2023: Corn, silage

Crop: Corn, silage Acres planted: 94 Plant date: 06/26/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/06/2023	2,350.00 ton	Dry-weight		76.9	33,300.00	3,730.00	29,300.00		8.90

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	25.00	200.00	37.50	165.00	0.00
Total actual harvest content	25.00	384.62	43.08	338.42	1,027.95

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Field 14 A

Field name: Field 14 A

11/19/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 69 Plant date: 11/19/2022

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	1,185.00 ton	Dry-weight		62.2	11,639.00	3,070.00	16,700.00		8.60

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	15.00	165.00	25.50	124.50	0.00
Total actual harvest content	17.17	151.11	39.86	216.82	1,116.58

07/04/2023: Corn, silage

Crop: Corn, silage Acres planted: 69 Plant date: 07/04/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/05/2023	1,725.00 ton	Dry-weight		65.2	18,085.00	3,080.00	19,600.00		6.40

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	25.00	200.00	37.50	165.00	0.00
Total actual harvest content	25.00	314.68	53.59	341.04	1,113.60

Field 14 B

Field name: Field 14 B

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

Crop: Wheat, silage, soft dough Acres planted: 69 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 (%)
05/22/2023	1,135.00 ton	Dry-weight		62.6	17,841.00	2,880.00	17,600.00		9.10

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	15.00	165.00	25.50	124.50	0.00
Total actual harvest content	16.45	219.52	35.44	216.55	1,119.67

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Field 14 B

07/07/2023: Corn, silage

Crop: Corn, silage Acres planted: 69 Plant date: 07/07/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/05/2023	1,725.00 <i>ton</i>	Dry-weight		77.1	19,830.00	3,920.00	27,900.00		12.00
10/06/2023	1,885.00 <i>ton</i>	Dry-weight		62.2	11,639.00	3,070.00	16,700.00		8.60
Anticipated harvest content		Yield (tons/acre)		Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)		
Total actual harvest content		25.00		200.00	37.50	165.00	0.00		
		52.32		467.43	108.29	664.36	3,150.16		

Field 16

Field name: Field 16

03/16/2023: Corn, silage

Crop: Corn, silage Acres planted: 80 Plant date: 03/16/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
07/24/2023	2,000.00 <i>ton</i>	Dry-weight		64.4	19,900.00	3,190.00	18,000.00		5.30
Anticipated harvest content		Yield (tons/acre)		Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)		
Total actual harvest content		25.00		200.00	37.50	165.00	0.00		
		25.00		354.22	56.78	320.40	943.40		

07/26/2023: Sorghum

Crop: Sorghum Acres planted: 80 Plant date: 07/26/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
11/01/2023	880.00 <i>ton</i>	Dry-weight		67.6	34,410.00	4,940.00	40,000.00		15.40
Anticipated harvest content		Yield (tons/acre)		Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)		
Total actual harvest content		10.00		500.00	87.00	400.00	0.00		
		11.00		245.27	35.21	285.12	1,097.71		

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Field 17

Field name: Field 17

03/17/2023: Corn, silage

Crop: Corn, silage

Acres planted: 78 Plant date: 03/17/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
07/24/2023	2,050.00 ton	Dry-weight		65.3	17,890.00	3,010.00	19,400.00		6.10

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	25.00	200.00	37.50	165.00	0.00
Total actual harvest content	26.28	326.31	54.90	353.85	1,112.62

07/27/2023: Sorghum

Crop: Sorghum

Acres planted: 78 Plant date: 07/27/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
11/01/2023	810.00 ton	Dry-weight		71.0	33,360.00	4,790.00	37,400.00		15.70

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	10.00	500.00	87.00	400.00	0.00
Total actual harvest content	10.38	200.93	28.85	225.26	945.62

Field 18

Field name: Field 18

03/18/2023: Corn, silage

Crop: Corn, silage

Acres planted: 80 Plant date: 03/18/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
07/25/2023	2,200.00 ton	Dry-weight		68.2	17,440.00	2,950.00	17,000.00		5.10

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	25.00	200.00	37.50	165.00	0.00
Total actual harvest content	27.50	305.03	51.60	297.33	891.99

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Field 18

07/30/2023: Sorghum

Crop: Sorghum Acres planted: 80 Plant date: 07/30/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
11/01/2023	920.00 <i>ton</i>	Dry-weight		68.7	31,000.00	4,610.00	33,500.00		14.40

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	10.00	500.00	87.00	400.00	0.00
Total actual harvest content	11.50	223.17	33.19	241.17	1,036.66

Field 19

Field name: Field 19

03/19/2023: Corn, silage

Crop: Corn, silage Acres planted: 79 Plant date: 03/19/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
07/25/2023	2,375.00 <i>ton</i>	Dry-weight		69.1	18,690.00	3,750.00	19,100.00		5.90

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	25.00	200.00	37.50	165.00	0.00
Total actual harvest content	30.06	347.24	69.67	354.86	1,096.17

07/28/2023: Sorghum

Crop: Sorghum Acres planted: 79 Plant date: 07/28/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
11/01/2023	900.00 <i>ton</i>	Dry-weight		71.4	28,870.00	5,080.00	41,700.00		14.60

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	10.00	500.00	87.00	400.00	0.00
Total actual harvest content	11.39	188.13	33.10	271.74	951.40

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Field 2

Field name: Field 2

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

Crop: Wheat, silage, soft dough Acres planted: 77 Plant date: 10/17/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/15/2023	1,280.00 ton	Dry-weight		67.8	13,720.00	3,430.00	23,600.00		11.80

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	15.00	165.00	25.50	124.50	0.00
Total actual harvest content	16.62	146.88	36.72	252.65	1,263.24

06/01/2023: Corn, silage

Crop: Corn, silage Acres planted: 77 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 (%)
09/12/2023	1,925.00 ton	Dry-weight		67.8	14,620.00	2,240.00	14,800.00		6.30

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	25.00	200.00	37.50	165.00	0.00
Total actual harvest content	25.00	235.38	36.06	238.28	1,014.30

Field 3

Field name: Field 3

10/15/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 78 Plant date: 10/15/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/16/2023	1,370.00 ton	Dry-weight		67.6	14,200.00	2,930.00	21,500.00		11.20

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	15.00	165.00	25.50	124.50	0.00
Total actual harvest content	17.56	161.62	33.35	244.70	1,274.73

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Field 3

06/02/2023: Corn, silage

Crop: Corn, silage Acres planted: 78 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 (%)
09/13/2023	2,050.00 <i>ton</i>	Dry-weight		58.1	17,920.00	2,950.00	11,900.00		5.50
		Yield (tons/acre) Total N (lbs/acre) Total P (lbs/acre) Total K (lbs/acre)				Salt (lbs/acre)			
Anticipated harvest content		25.00 200.00 37.50 165.00				0.00			
Total actual harvest content		26.28 394.68 64.97 262.09				1,211.34			

Field 30

Field name: Field 30

10/22/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 114 Plant date: 10/22/2022

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	1,710.00 <i>ton</i>	Dry-weight		58.6	19,041.00	3,530.00	28,000.00		11.20
		Yield (tons/acre) Total N (lbs/acre) Total P (lbs/acre) Total K (lbs/acre)				Salt (lbs/acre)			
Anticipated harvest content		15.00 165.00 25.50 124.50				0.00			
Total actual harvest content		15.00 236.49 43.84 347.76				1,391.04			

06/14/2023: Corn, silage

Crop: Corn, silage Acres planted: 114 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 (%)
09/22/2023	3,400.00 <i>ton</i>	Dry-weight		63.0	10,686.00	2,200.00	15,400.00		5.70
		Yield (tons/acre) Total N (lbs/acre) Total P (lbs/acre) Total K (lbs/acre)				Salt (lbs/acre)			
Anticipated harvest content		25.00 200.00 37.50 165.00				0.00			
Total actual harvest content		29.82 235.84 48.55 339.88				1,258.00			

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Field 31

Field name: Field 31

10/21/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 16 Plant date: 10/21/2022

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	290.00 ton	Dry-weight		45.3	23,902.00	3,340.00	24,200.00		13.90

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	15.00	165.00	25.50	124.50	0.00
Total actual harvest content	18.13	473.95	66.23	479.86	2,756.20

06/13/2023: Corn, silage

Crop: Corn, silage Acres planted: 16 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 (%)
09/22/2023	400.00 ton	Dry-weight		63.0	10,686.00	2,200.00	15,400.00		5.70

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	25.00	200.00	37.50	165.00	0.00
Total actual harvest content	25.00	197.69	40.70	284.90	1,054.50

Field 32

Field name: Field 32

10/20/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 94 Plant date: 10/20/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/26/2023	1,410.00 ton	Dry-weight		61.4	22,039.00	3,580.00	28,800.00		10.50

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	15.00	165.00	25.50	124.50	0.00
Total actual harvest content	15.00	255.21	41.46	333.50	1,215.90

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Field 32

06/15/2023: Corn, silage

Crop: Corn, silage Acres planted: 94 Plant date: 06/15/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/23/2023	2,350.00 <i>ton</i>	Dry-weight		61.4	16,416.00	2,460.00	17,600.00		6.20

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	25.00	200.00	37.50	165.00	0.00
Total actual harvest content	25.00	316.83	47.48	339.68	1,196.60

Field 33

Field name: Field 33

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

Crop: Wheat, silage, soft dough Acres planted: 89 Plant date: 10/26/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/26/2023	1,635.00 <i>ton</i>	Dry-weight		58.3	19,478.00	3,020.00	25,300.00		11.90

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	15.00	165.00	25.50	124.50	0.00
Total actual harvest content	18.37	298.43	46.27	387.63	1,823.23

Field 34

Field name: Field 34

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Field 34

01/01/2023: Alfalfa, hay

Crop: Alfalfa, hay Acres planted: 74 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 (%)
06/15/2023	592.00 ton	Dry-weight		61.2	32,030.00	3,820.00	22,100.00		16.30

	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	8.00	198.84	23.71	137.20	1,011.90

Field 35

Field name: Field 35

05/29/2023: Corn, silage

Crop: Corn, silage Acres planted: 64 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 (%)
09/12/2023	1,600.00 ton	Dry-weight		65.9	14,610.00	2,690.00	14,600.00		6.10

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	25.00	200.00	37.50	165.00	0.00
Total actual harvest content	25.00	249.10	45.86	248.93	1,040.05

Field 36

Field name: Field 36

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Field 36

01/01/2023: Alfalfa, hay

Crop: Alfalfa, hay Acres planted: 77 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 (%)
06/15/2023	616.00 <i>ton</i>	Dry-weight		61.6	34,240.00	3,450.00	25,900.00		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	8.00	210.37	21.20	159.13	964.61

Field 4

Field name: Field 4

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

Crop: Wheat, silage, soft dough Acres planted: 78 Plant date: 10/17/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/16/2023	1,570.00 <i>ton</i>	Dry-weight		66.2	15,214.00	2,950.00	23,900.00		10.50

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	15.00	165.00	25.50	124.50	0.00
Total actual harvest content	20.13	207.01	40.14	325.20	1,428.70

05/30/2023: Corn, silage

Crop: Corn, silage Acres planted: 78 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 (%)
09/13/2023	1,950.00 <i>ton</i>	Dry-weight		67.9	13,990.00	2,110.00	14,500.00		5.60

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	25.00	200.00	37.50	165.00	0.00
Total actual harvest content	25.00	224.54	33.87	232.73	898.80

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Field 5

Field name: Field 5

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

Crop: Wheat, silage, soft dough Acres planted: 156 Plant date: 10/17/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/16/2023	2,340.00 ton	Dry-weight		64.9	13,816.00	2,890.00	21,000.00		11.10

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	15.00	165.00	25.50	124.50	0.00
Total actual harvest content	15.00	145.48	30.43	221.13	1,168.83

06/15/2023: Corn, silage

Crop: Corn, silage Acres planted: 156 Plant date: 06/15/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/22/2023	3,900.00 ton	Dry-weight		63.1	15,259.00	1,650.00	12,600.00		4.60

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	25.00	200.00	37.50	165.00	0.00
Total actual harvest content	25.00	281.53	30.44	232.47	848.70

Field 6

Field name: Field 6

01/01/2023: Alfalfa, hay

Crop: Alfalfa, hay Acres planted: 156 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 (%)
06/15/2023	1,248.00 ton	Dry-weight		61.8	33,660.00	3,010.00	22,600.00		16.10

	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	8.00	205.73	18.40	138.13	984.03

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Field 7

Field name: Field 7

10/22/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 31 Plant date: 10/22/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/17/2023	565.00 ton	Dry-weight		57.7	23,010.00	4,730.00	36,400.00		14.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	15.00	165.00	25.50	124.50	0.00
Total actual harvest content	18.23	354.79	72.93	561.25	2,158.66

06/03/2023: Corn, silage

Crop: Corn, silage Acres planted: 32 Plant date: 06/03/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/13/2023	800.00 ton	Dry-weight		62.8	15,090.00	2,520.00	17,000.00		7.20

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	25.00	200.00	37.50	165.00	0.00
Total actual harvest content	25.00	280.67	46.87	316.20	1,339.20

Field 8

Field name: Field 8

10/22/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 44 Plant date: 10/22/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/17/2023	760.00 ton	Dry-weight		58.1	28,530.00	4,730.00	36,800.00		12.40

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	15.00	165.00	25.50	124.50	0.00
Total actual harvest content	17.27	412.96	68.46	532.66	1,794.84

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Field 8

06/13/2023: Corn, silage

Crop: Corn, silage Acres planted: 44 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 (%)
09/25/2023	1,100.00 <i>ton</i>	Dry-weight		62.6	17,077.00	1,750.00	14,900.00		5.60
		Yield (tons/acre) Total N (lbs/acre) Total P (lbs/acre) Total K (lbs/acre)				Salt (lbs/acre)			
Anticipated harvest content		25.00 200.00 37.50 165.00				0.00			
Total actual harvest content		25.00 319.34 32.73 278.63				1,047.20			

Field 9

Field name: Field 9

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

Crop: Wheat, silage, soft dough Acres planted: 128 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	2,320.00 <i>ton</i>	Dry-weight		61.5	14,116.00	2,830.00	15,000.00		8.80
		Yield (tons/acre) Total N (lbs/acre) Total P (lbs/acre) Total K (lbs/acre)				Salt (lbs/acre)			
Anticipated harvest content		15.00 165.00 25.50 124.50				0.00			
Total actual harvest content		18.13 197.01 39.50 209.34				1,228.15			

06/16/2023: Corn, silage

Crop: Corn, silage Acres planted: 128 Plant date: 06/16/2023

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	3,200.00 <i>ton</i>	Dry-weight		64.6	19,307.00	2,370.00	17,200.00		5.70
		Yield (tons/acre) Total N (lbs/acre) Total P (lbs/acre) Total K (lbs/acre)				Salt (lbs/acre)			
Anticipated harvest content		25.00 200.00 37.50 165.00				0.00			
Total actual harvest content		25.00 341.73 41.95 304.44				1,008.90			

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NUTRIENT BUDGET

A. LAND APPLICATIONS

Field 1 - 10/14/2022: Wheat, silage, soft dough

Field name: Field 1

Crop: Wheat, silage, soft dough Plant date: 10/14/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
10/10/2022	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Dry Manure	Corral solids	58.53	24.11	63.07	4,988.69	234.00 ton
Application event totals		58.53	24.11	63.07	4,988.69	
10/19/2022	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
Well 2	Ground water	0.51	0.00	0.00	80.42	4,320,000.00 gal
Application event totals		0.51	0.00	0.00	80.42	
12/04/2022	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
Wastewater	Process wastewater	57.26	6.55	23.40	200.53	1,620,000.00 gal
Well 2	Ground water	1.02	0.00	0.00	160.84	8,640,000.00 gal
Application event totals		58.28	6.55	23.40	361.37	
01/11/2023	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
Wastewater	Process wastewater	57.26	6.55	23.40	200.53	1,620,000.00 gal
Well 2	Ground water	0.51	0.00	0.00	80.42	4,320,000.00 gal
Application event totals		57.77	6.55	23.40	280.95	
04/15/2023	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
Buena Vista Canal	Surface water	0.69	0.00	0.00	58.93	6,480,000.00 gal
Application event totals		0.69	0.00	0.00	58.93	

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Field 1 - 06/10/2023: Corn, silage

Field name: Field 1

Crop: Corn, silage

Plant date: 06/10/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/10/2023	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
Dry Manure	Corral solids	136.58	56.25	147.16	11,640.29	546.00 ton
Application event totals		136.58	56.25	147.16	11,640.29	
06/15/2023	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
Buena Vista Canal	Surface water	0.92	0.00	0.00	78.57	8,640,000.00 gal
Application event totals		0.92	0.00	0.00	78.57	
07/10/2023	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
Wastewater	Process wastewater	92.50	14.95	64.24	519.03	2,160,000.00 gal
Buena Vista Canal	Surface water	1.39	0.00	0.00	117.86	12,960,000.00 gal
Application event totals		93.89	14.95	64.24	636.89	
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
Wastewater	Process wastewater	46.25	7.48	32.12	259.52	1,080,000.00 gal
Buena Vista Canal	Surface water	1.85	0.00	0.00	157.14	17,280,000.00 gal
Application event totals		48.10	7.48	32.12	416.66	
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
Wastewater	Process wastewater	40.47	5.62	25.42	191.23	1,080,000.00 gal
Buena Vista Canal	Surface water	2.31	0.00	0.00	196.43	21,600,000.00 gal
Application event totals		42.79	5.62	25.42	387.66	

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Field 1 - 06/10/2023: 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)
Buena Vista Canal	Surface water	2.31	0.00	0.00	196.43
Application event totals		2.31	0.00	0.00	196.43
					21,600,000.00 gal

Field 10 - 11/08/2022: Wheat, silage, soft dough

Field name: Field 10

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

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
11/10/2022	Broadcast/incorporate	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Dry Manure	Corral solids	66.77	27.50	71.95	5,690.81
Application event totals		66.77	27.50	71.95	5,690.81
11/16/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Well 5	Ground water	1.58	0.00	0.00	194.72
Application event totals		1.58	0.00	0.00	194.72
12/16/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Well 5	Ground water	1.58	0.00	0.00	194.72
Application event totals		1.58	0.00	0.00	194.72
01/14/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Wastewater	Process wastewater	91.91	10.51	37.55	321.84
Well 5	Ground water	3.15	0.00	0.00	389.43
Application event totals		95.06	10.51	37.55	711.27
					4,500,000.00 gal
					15,000,000.00 gal

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Field 10 - 11/08/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
01/25/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Wastewater	Process wastewater	45.95	5.26	18.78	160.92
Well 5	Ground water	1.58	0.00	0.00	194.72
Application event totals		47.53	5.26	18.78	355.64

Field 10 - 06/17/2023: Corn, silage

Field name: Field 10

Crop: Corn, silage

Plant date: 06/17/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
06/07/2023	Broadcast/incorporate	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Dry Manure	Corral solids	117.45	39.34	122.87	2,772.74
Application event totals		117.45	39.34	122.87	2,772.74
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)
Buena Vista Canal	Surface water	0.67	0.00	0.00	56.75
Application event totals		0.67	0.00	0.00	56.75
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)
Wastewater	Process wastewater	66.81	10.80	46.40	374.86
Buena Vista Canal	Surface water	2.00	0.00	0.00	170.24
Application event totals		68.81	10.80	46.40	545.10

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Field 10 - 06/17/2023: 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
Wastewater	Process wastewater	58.46	8.11	36.72	276.22	2,700,000.00 gal
Buena Vista Canal	Surface water	2.00	0.00	0.00	170.24	32,400,000.00 gal
Application event totals		60.47	8.11	36.72	446.46	
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
Wastewater	Process wastewater	58.46	8.11	36.72	276.22	2,700,000.00 gal
Buena Vista Canal	Surface water	2.00	0.00	0.00	170.24	32,400,000.00 gal
Application event totals		60.47	8.11	36.72	446.46	
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
Buena Vista Canal	Surface water	2.67	0.00	0.00	226.98	43,200,000.00 gal
Application event totals		2.67	0.00	0.00	226.98	

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

Field name: Field 11

Crop: Wheat, silage, soft dough

Plant date: 10/10/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/05/2022	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Dry Manure	Corral solids	205.92	68.97	215.43	4,861.30	695.00 ton
Application event totals		205.92	68.97	215.43	4,861.30	

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

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/15/2022	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
Well 6	Ground water	0.00	0.00	0.00	164.95	8,640,000.00 gal
Application event totals		0.00	0.00	0.00	164.95	
12/15/2022	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
Wastewater	Process wastewater	32.13	3.68	13.13	112.53	1,620,000.00 gal
Well 6	Ground water	0.00	0.00	0.00	164.95	8,640,000.00 gal
Application event totals		32.13	3.68	13.13	277.48	
01/14/2023	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
Wastewater	Process wastewater	64.27	7.35	26.26	225.06	3,240,000.00 gal
Well 6	Ground water	0.00	0.00	0.00	164.95	8,640,000.00 gal
Application event totals		64.27	7.35	26.26	390.01	
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
Well 6	Ground water	0.00	0.00	0.00	329.90	17,280,000.00 gal
Application event totals		0.00	0.00	0.00	329.90	

Field 11 - 06/19/2023: Corn, silage

Field name: Field 11

Crop: Corn, silage

Plant date: 06/19/2023

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

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Field 11 - 06/19/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/15/2023	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
Dry Manure	Corral solids	247.11	82.76	258.51	5,833.56	834.00 ton
Application event totals		247.11	82.76	258.51	5,833.56	
06/24/2023	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
Buena Vista Canal	Surface water	0.78	0.00	0.00	66.14	12,960,000.00 gal
Application event totals		0.78	0.00	0.00	66.14	
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
Wastewater	Process wastewater	90.85	12.60	57.06	429.23	4,320,000.00 gal
Buena Vista Canal	Surface water	1.56	0.00	0.00	132.27	25,920,000.00 gal
Application event totals		92.41	12.60	57.06	561.50	
07/29/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater	Process wastewater	45.42	6.30	28.53	214.62	2,160,000.00 gal
Buena Vista Canal	Surface water	2.59	0.00	0.00	220.45	43,200,000.00 gal
Application event totals		48.02	6.30	28.53	435.07	
08/13/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater	Process wastewater	45.42	6.30	28.53	214.62	2,160,000.00 gal
Buena Vista Canal	Surface water	2.59	0.00	0.00	220.45	43,200,000.00 gal
Application event totals		48.02	6.30	28.53	435.07	

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Field 11 - 06/19/2023: 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
Buena Vista Canal	Surface water	2.59	0.00	0.00	220.45	43,200,000.00 gal
Application event totals		2.59	0.00	0.00	220.45	

Field 12 - 11/16/2022: Wheat, silage, soft dough

Field name: Field 12

Crop: Wheat, silage, soft dough Plant date: 11/16/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/09/2022	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
Dry Manure	Corral solids	205.92	68.97	215.43	4,861.30	400.00 ton
Application event totals		205.92	68.97	215.43	4,861.30	
11/21/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 6	Ground water	0.00	0.00	0.00	143.30	4,320,000.00 gal
Application event totals		0.00	0.00	0.00	143.30	
12/21/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 6	Ground water	0.00	0.00	0.00	143.30	4,320,000.00 gal
Application event totals		0.00	0.00	0.00	143.30	
01/20/2023	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
Well 6	Ground water	0.00	0.00	0.00	143.30	4,320,000.00 gal
Application event totals		0.00	0.00	0.00	143.30	

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Field 12 - 11/16/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
02/14/2023	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
Wastewater	Process wastewater	27.92	3.19	11.41	97.76	810,000.00 gal
Well 6	Ground water	0.00	0.00	0.00	143.30	4,320,000.00 gal
Application event totals		27.92	3.19	11.41	241.06	
04/05/2023	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
Buena Vista Canal	Surface water	0.68	0.00	0.00	57.46	6,480,000.00 gal
Application event totals		0.68	0.00	0.00	57.46	

Field 12 - 06/23/2023: Corn, silage

Field name: Field 12

Crop: Corn, silage

Plant date: 06/23/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/19/2023	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
Dry Manure	Corral solids	164.74	55.17	172.34	3,889.04	320.00 ton
Application event totals		164.74	55.17	172.34	3,889.04	
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
Buena Vista Canal	Surface water	1.13	0.00	0.00	95.76	10,800,000.00 gal
Application event totals		1.13	0.00	0.00	95.76	

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Field 12 - 06/23/2023: 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
Wastewater	Process wastewater	98.66	13.69	61.96	466.12	2,700,000.00 gal
Buena Vista Canal	Surface water	2.25	0.00	0.00	191.52	21,600,000.00 gal
Application event totals		100.91	13.69	61.96	657.64	
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
Wastewater	Process wastewater	49.33	6.84	30.98	233.06	1,350,000.00 gal
Buena Vista Canal	Surface water	2.25	0.00	0.00	191.52	21,600,000.00 gal
Application event totals		51.58	6.84	30.98	424.58	
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
Wastewater	Process wastewater	49.33	6.84	30.98	233.06	1,350,000.00 gal
Buena Vista Canal	Surface water	2.25	0.00	0.00	191.52	21,600,000.00 gal
Application event totals		51.58	6.84	30.98	424.58	
09/01/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Buena Vista Canal	Surface water	2.25	0.00	0.00	191.52	21,600,000.00 gal
Application event totals		2.25	0.00	0.00	191.52	

Field 13 - 11/18/2022: Wheat, silage, soft dough

Field name: Field 13

Crop: Wheat, silage, soft dough

Plant date: 11/18/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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Field 13 - 11/18/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/23/2022	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
Well 10	Ground water	0.67	0.00	0.00	224.36	5,400,000.00 gal
Application event totals		0.67	0.00	0.00	224.36	
12/23/2022	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
Wastewater	Process wastewater	47.52	5.44	19.42	166.40	1,620,000.00 gal
Well 10	Ground water	0.67	0.00	0.00	224.36	5,400,000.00 gal
Application event totals		48.19	5.44	19.42	390.75	
01/22/2023	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
Wastewater	Process wastewater	47.52	5.44	19.42	166.40	1,620,000.00 gal
Well 10	Ground water	0.67	0.00	0.00	224.36	5,400,000.00 gal
Application event totals		48.19	5.44	19.42	390.75	
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
Wastewater	Process wastewater	57.57	9.31	39.98	323.02	1,620,000.00 gal
Buena Vista Canal	Surface water	1.15	0.00	0.00	98.10	13,000,000.00 gal
Application event totals		58.72	9.31	39.98	421.11	

Field 13 - 06/26/2023: Corn, silage

Field name: Field 13

Crop: Corn, silage

Plant date: 06/26/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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Field 13 - 06/26/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/22/2023	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
Dry Manure	Corral solids	247.11	82.76	258.51	5,833.56	564.00 ton
Application event totals		247.11	82.76	258.51	5,833.56	
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
Buena Vista Canal	Surface water	1.92	0.00	0.00	162.99	21,600,000.00 gal
Application event totals		1.92	0.00	0.00	162.99	
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
Wastewater	Process wastewater	83.96	11.65	52.73	396.70	2,700,000.00 gal
Buena Vista Canal	Surface water	1.92	0.00	0.00	162.99	21,600,000.00 gal
Application event totals		85.88	11.65	52.73	559.69	
08/05/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater	Process wastewater	83.96	11.65	52.73	396.70	2,700,000.00 gal
Buena Vista Canal	Surface water	1.92	0.00	0.00	162.99	21,600,000.00 gal
Application event totals		85.88	11.65	52.73	559.69	
08/20/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater	Process wastewater	41.98	5.82	26.37	198.35	1,350,000.00 gal
Buena Vista Canal	Surface water	1.92	0.00	0.00	162.99	21,600,000.00 gal
Application event totals		43.90	5.82	26.37	361.34	

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Field 13 - 06/26/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
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)
Buena Vista Canal	Surface water	1.92	0.00	0.00	162.99
Application event totals		1.92	0.00	0.00	162.99
					21,600,000.00 gal

Field 14 A - 11/19/2022: Wheat, silage, soft dough

Field name:	Field 14 A					
Crop:	Wheat, silage, soft dough					
Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following
11/12/2022	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
Slurry	Process wastewater sludge	179.99	1.10	2.17	534.44	360,000.00 gal
Application event totals		179.99	1.10	2.17	534.44	
11/24/2022	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
Well 9	Ground water	0.44	0.00	0.00	261.23	3,600,000.00 gal
Application event totals		0.44	0.00	0.00	261.23	
12/24/2022	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
Well 9	Ground water	0.44	0.00	0.00	261.23	3,600,000.00 gal
Application event totals		0.44	0.00	0.00	261.23	
01/23/2023	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
Well 9	Ground water	0.44	0.00	0.00	261.23	3,600,000.00 gal
Application event totals		0.44	0.00	0.00	261.23	

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Field 14 A - 11/19/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
02/23/2023	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
Well 9	Ground water	0.44	0.00	0.00	261.23	3,600,000.00 gal
Application event totals		0.44	0.00	0.00	261.23	
03/24/2023	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
Buena Vista Canal	Surface water	1.04	0.00	0.00	88.82	8,640,000.00 gal
Application event totals		1.04	0.00	0.00	88.82	

Field 14 A - 07/04/2023: Corn, silage

Field name: Field 14 A

Crop: Corn, silage

Plant date: 07/04/2023

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
Slurry	Process wastewater sludge	174.99	1.07	2.11	519.60	350,000.00 gal
Application event totals		174.99	1.07	2.11	519.60	
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
Buena Vista Canal	Surface water	1.04	0.00	0.00	88.82	8,640,000.00 gal
Application event totals		1.04	0.00	0.00	88.82	
07/29/2023	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
Wastewater	Process wastewater	91.51	12.70	57.47	432.34	2,160,000.00 gal
Buena Vista Canal	Surface water	2.09	0.00	0.00	177.64	17,280,000.00 gal
Application event totals		93.60	12.70	57.47	609.98	

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Field 14 A - 07/04/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
08/13/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater	Process wastewater	45.75	6.35	28.74	216.17	1,080,000.00 gal
Buena Vista Canal	Surface water	2.09	0.00	0.00	177.64	17,280,000.00 gal
Application event totals		47.84	6.35	28.74	393.81	
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
Wastewater	Process wastewater	45.75	6.35	28.74	216.17	1,080,000.00 gal
Buena Vista Canal	Surface water	2.09	0.00	0.00	177.64	17,280,000.00 gal
Application event totals		47.84	6.35	28.74	393.81	
09/12/2023	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
Buena Vista Canal	Surface water	2.09	0.00	0.00	177.64	17,280,000.00 gal
Application event totals		2.09	0.00	0.00	177.64	

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

Field name:	Field 14 B	Plant date:	11/21/2022			
Crop:	Wheat, silage, soft dough					
Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
11/14/2022	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
Slurry	Process wastewater sludge	246.48	1.51	2.97	731.89	493,000.00 gal
Application event totals		246.48	1.51	2.97	731.89	

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

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
11/26/2022	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
Well 10	Ground water	0.66	0.00	0.00	220.74	3,900,000.00 gal
Application event totals		0.66	0.00	0.00	220.74	
12/26/2022	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
Well 10	Ground water	1.32	0.00	0.00	441.49	7,800,000.00 gal
Application event totals		1.32	0.00	0.00	441.49	
02/08/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 10	Ground water	1.32	0.00	0.00	441.49	7,800,000.00 gal
Application event totals		1.32	0.00	0.00	441.49	

Field 14 B - 07/07/2023: Corn, silage

Field name: Field 14 B

Crop: Corn, silage

Plant date: 07/07/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
07/01/2023	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
Dry Manure	Corral solids	247.11	82.76	258.51	5,833.56	414.00 ton
Application event totals		247.11	82.76	258.51	5,833.56	
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
Buena Vista Canal	Surface water	1.04	0.00	0.00	88.82	8,640,000.00 gal
Application event totals		1.04	0.00	0.00	88.82	

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Field 14 B - 07/07/2023: 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
Wastewater	Process wastewater	91.51	12.70	57.47	432.34	2,160,000.00 gal
Buena Vista Canal	Surface water	2.09	0.00	0.00	177.64	17,280,000.00 gal
Application event totals		93.60	12.70	57.47	609.98	
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
Wastewater	Process wastewater	91.51	12.70	57.47	432.34	2,160,000.00 gal
Buena Vista Canal	Surface water	2.09	0.00	0.00	177.64	17,280,000.00 gal
Application event totals		93.60	12.70	57.47	609.98	
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
Wastewater	Process wastewater	91.51	12.70	57.47	432.34	2,160,000.00 gal
Buena Vista Canal	Surface water	2.09	0.00	0.00	177.64	17,280,000.00 gal
Application event totals		93.60	12.70	57.47	609.98	
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)	Amount
Buena Vista Canal	Surface water	2.09	0.00	0.00	177.64	17,280,000.00 gal
Application event totals		2.09	0.00	0.00	177.64	

Field 16 - 03/16/2023: Corn, silage

Field name: Field 16

Crop: Corn, silage

Plant date: 03/16/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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Field 16 - 03/16/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
03/10/2023	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
Dry Manure	Corral solids	247.11	82.76	258.51	5,833.56	480.00 ton
Application event totals		247.11	82.76	258.51	5,833.56	
03/21/2023	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
Buena Vista Canal	Surface water	1.80	0.00	0.00	153.21	17,280,000.00 gal
Application event totals		1.80	0.00	0.00	153.21	
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
Wastewater	Process wastewater	90.19	14.58	62.64	506.06	2,160,000.00 gal
Buena Vista Canal	Surface water	1.80	0.00	0.00	153.21	17,280,000.00 gal
Application event totals		91.99	14.58	62.64	659.27	
06/01/2023	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
Wastewater	Process wastewater	90.19	14.58	62.64	506.06	2,160,000.00 gal
Buena Vista Canal	Surface water	1.80	0.00	0.00	153.21	17,280,000.00 gal
Application event totals		91.99	14.58	62.64	659.27	
07/11/2023	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
Buena Vista Canal	Surface water	1.80	0.00	0.00	153.21	17,280,000.00 gal
Application event totals		1.80	0.00	0.00	153.21	

Field 16 - 07/26/2023: Sorghum

Field name: Field 16

Crop: Sorghum

Plant date: 07/26/2023

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Field 16 - 07/26/2023: Sorghum

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
07/20/2023	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
Dry Manure	Corral solids	164.74	55.17	172.34	3,889.04	320.00 ton
Application event totals		164.74	55.17	172.34	3,889.04	
07/29/2023	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
Wastewater	Process wastewater	49.33	6.84	30.98	233.06	1,350,000.00 gal
Buena Vista Canal	Surface water	1.69	0.00	0.00	143.64	16,200,000.00 gal
Application event totals		51.02	6.84	30.98	376.70	
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
Wastewater	Process wastewater	98.66	13.69	61.96	466.12	2,700,000.00 gal
Buena Vista Canal	Surface water	2.25	0.00	0.00	191.52	21,600,000.00 gal
Application event totals		100.91	13.69	61.96	657.64	
09/29/2023	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
Buena Vista Canal	Surface water	3.46	0.00	0.00	294.37	33,200,000.00 gal
Application event totals		3.46	0.00	0.00	294.37	

Field 17 - 03/17/2023: Corn, silage

Field name: Field 17

Crop: Corn, silage

Plant date: 03/17/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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Field 17 - 03/17/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
03/08/2023	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Dry Manure	Corral solids	205.92	68.97	215.43	4,861.30	390.00 ton
Application event totals		205.92	68.97	215.43	4,861.30	
03/22/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Buena Vista Canal	Surface water	1.85	0.00	0.00	157.14	17,280,000.00 gal
Application event totals		1.85	0.00	0.00	157.14	
05/03/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater	Process wastewater	92.50	14.95	64.24	519.03	2,160,000.00 gal
Buena Vista Canal	Surface water	1.85	0.00	0.00	157.14	17,280,000.00 gal
Application event totals		94.35	14.95	64.24	676.18	
06/02/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater	Process wastewater	92.50	14.95	64.24	519.03	2,160,000.00 gal
Buena Vista Canal	Surface water	1.85	0.00	0.00	157.14	17,280,000.00 gal
Application event totals		94.35	14.95	64.24	676.18	
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
Buena Vista Canal	Surface water	1.85	0.00	0.00	157.14	17,280,000.00 gal
Application event totals		1.85	0.00	0.00	157.14	

Field 17 - 07/27/2023: Sorghum

Field name: Field 17

Crop: Sorghum

Plant date: 07/27/2023

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Field 17 - 07/27/2023: Sorghum

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
07/25/2023	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
Dry Manure	Corral solids	169.49	56.76	177.31	4,001.22	321.00 ton
Application event totals		169.49	56.76	177.31	4,001.22	
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
Buena Vista Canal	Surface water	1.73	0.00	0.00	147.32	16,200,000.00 gal
Application event totals		1.73	0.00	0.00	147.32	
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
Wastewater	Process wastewater	50.59	7.02	31.78	239.04	1,350,000.00 gal
Buena Vista Canal	Surface water	2.31	0.00	0.00	196.43	21,600,000.00 gal
Application event totals		52.90	7.02	31.78	435.46	
09/28/2023	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
Wastewater	Process wastewater	31.86	4.42	20.01	150.50	850,000.00 gal
Buena Vista Canal	Surface water	3.55	0.00	0.00	301.92	33,200,000.00 gal
Application event totals		35.41	4.42	20.01	452.42	

Field 18 - 03/18/2023: Corn, silage

Field name: Field 18

Crop: Corn, silage

Plant date: 03/18/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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Field 18 - 03/18/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
03/05/2023	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
Dry Manure	Corral solids	205.92	68.97	215.43	4,861.30	400.00 ton
Application event totals		205.92	68.97	215.43	4,861.30	
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
Buena Vista Canal	Surface water	1.80	0.00	0.00	153.21	17,280,000.00 gal
Application event totals		1.80	0.00	0.00	153.21	
05/04/2023	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
Wastewater	Process wastewater	90.19	14.58	62.64	506.06	2,160,000.00 gal
Buena Vista Canal	Surface water	1.80	0.00	0.00	153.21	17,280,000.00 gal
Application event totals		91.99	14.58	62.64	659.27	
06/03/2023	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
Wastewater	Process wastewater	90.19	14.58	62.64	506.06	2,160,000.00 gal
Buena Vista Canal	Surface water	1.80	0.00	0.00	153.21	17,280,000.00 gal
Application event totals		91.99	14.58	62.64	659.27	
07/13/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Buena Vista Canal	Surface water	1.80	0.00	0.00	153.21	17,280,000.00 gal
Application event totals		1.80	0.00	0.00	153.21	

Field 18 - 07/30/2023: Sorghum

Field name: Field 18

Crop: Sorghum

Plant date: 07/30/2023

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

Field 18 - 07/30/2023: Sorghum

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
03/06/2023	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
Dry Manure	Corral solids	205.92	68.97	215.43	4,861.30	400.00 ton
Application event totals		205.92	68.97	215.43	4,861.30	
08/05/2023	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
Buena Vista Canal	Surface water	1.69	0.00	0.00	143.64	16,200,000.00 gal
Application event totals		1.69	0.00	0.00	143.64	
09/01/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater	Process wastewater	49.33	6.84	30.98	233.06	1,350,000.00 gal
Buena Vista Canal	Surface water	2.25	0.00	0.00	191.52	21,600,000.00 gal
Application event totals		51.58	6.84	30.98	424.58	
10/01/2023	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
Wastewater	Process wastewater	31.06	4.31	19.51	146.74	850,000.00 gal
Buena Vista Canal	Surface water	3.46	0.00	0.00	294.37	33,200,000.00 gal
Application event totals		34.52	4.31	19.51	441.11	

Field 19 - 03/19/2023: Corn, silage

Field name: Field 19

Crop: Corn, silage

Plant date: 03/19/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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Field 19 - 03/19/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
03/18/2023	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
Dry Manure	Corral solids	205.92	68.97	215.43	4,861.30	395.00 ton
Application event totals		205.92	68.97	215.43	4,861.30	
03/24/2023	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
Buena Vista Canal	Surface water	1.83	0.00	0.00	155.15	17,280,000.00 gal
Application event totals		1.83	0.00	0.00	155.15	
05/05/2023	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
Wastewater	Process wastewater	91.33	14.76	63.43	512.46	2,160,000.00 gal
Buena Vista Canal	Surface water	1.83	0.00	0.00	155.15	17,280,000.00 gal
Application event totals		93.16	14.76	63.43	667.62	
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
Wastewater	Process wastewater	91.33	14.76	63.43	512.46	2,160,000.00 gal
Buena Vista Canal	Surface water	1.83	0.00	0.00	155.15	17,280,000.00 gal
Application event totals		93.16	14.76	63.43	667.62	
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
Buena Vista Canal	Surface water	1.83	0.00	0.00	155.15	17,280,000.00 gal
Application event totals		1.83	0.00	0.00	155.15	

Field 19 - 07/28/2023: Sorghum

Field name: Field 19

Crop: Sorghum

Plant date: 07/28/2023

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Field 19 - 07/28/2023: Sorghum

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
08/02/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Buena Vista Canal	Surface water	1.71	0.00	0.00	145.46	16,200,000.00 gal
Application event totals		1.71	0.00	0.00	145.46	
07/30/2023	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
Dry Manure	Corral solids	164.74	55.17	172.34	3,889.04	316.00 ton
Application event totals		164.74	55.17	172.34	3,889.04	
09/01/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater	Process wastewater	49.95	6.93	31.37	236.01	1,350,000.00 gal
Buena Vista Canal	Surface water	2.28	0.00	0.00	193.94	21,600,000.00 gal
Application event totals		52.23	6.93	31.37	429.95	
10/01/2023	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
Wastewater	Process wastewater	31.45	4.36	19.75	148.60	850,000.00 gal
Buena Vista Canal	Surface water	4.56	0.00	0.00	387.88	43,200,000.00 gal
Application event totals		36.02	4.36	19.75	536.48	

Field 2 - 10/17/2022: Wheat, silage, soft dough

Field name: Field 2

Crop: Wheat, silage, soft dough

Plant date: 10/17/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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Field 2 - 10/17/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
10/22/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 2	Ground water	0.52	0.00	0.00	81.46	4,320,000.00 gal
Application event totals		0.52	0.00	0.00	81.46	
10/18/2022	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Dry Manure	Corral solids	117.06	48.21	126.14	9,977.39	462.00 ton
Application event totals		117.06	48.21	126.14	9,977.39	
12/02/2022	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
Wastewater	Process wastewater	29.00	3.32	11.85	101.57	810,000.00 gal
Well 2	Ground water	0.52	0.00	0.00	81.46	4,320,000.00 gal
Application event totals		29.52	3.32	11.85	183.03	
01/18/2023	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
Wastewater	Process wastewater	29.00	3.32	11.85	101.57	810,000.00 gal
Well 2	Ground water	0.52	0.00	0.00	81.46	4,320,000.00 gal
Application event totals		29.52	3.32	11.85	183.03	
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
Buena Vista Canal	Surface water	0.70	0.00	0.00	59.69	6,480,000.00 gal
Application event totals		0.70	0.00	0.00	59.69	

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

Field name: Field 2

Crop: Corn, silage

Plant date: 06/01/2023

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

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/01/2023	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
Dry Manure	Corral solids	97.55	40.18	105.12	8,314.49	385.00 ton
Application event totals		97.55	40.18	105.12	8,314.49	
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
Buena Vista Canal	Surface water	0.94	0.00	0.00	79.59	8,640,000.00 gal
Application event totals		0.94	0.00	0.00	79.59	
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
Wastewater	Process wastewater	70.28	11.36	48.81	394.33	1,620,000.00 gal
Buena Vista Canal	Surface water	1.87	0.00	0.00	159.18	17,280,000.00 gal
Application event totals		72.15	11.36	48.81	553.51	
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
Wastewater	Process wastewater	61.50	8.53	38.63	290.57	1,620,000.00 gal
Buena Vista Canal	Surface water	1.87	0.00	0.00	159.18	17,280,000.00 gal
Application event totals		63.37	8.53	38.63	449.75	
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
Wastewater	Process wastewater	61.50	8.53	38.63	290.57	1,620,000.00 gal
Buena Vista Canal	Surface water	2.11	0.00	0.00	179.08	19,440,000.00 gal
Application event totals		63.61	8.53	38.63	469.65	

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

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
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)
Buena Vista Canal	Surface water	2.11	0.00	0.00	179.08
Application event totals		2.11	0.00	0.00	179.08
					19,440,000.00 gal

Field 3 - 10/15/2022: Wheat, silage, soft dough

Field name: Field 3

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

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
10/15/2022	Broadcast/incorporate	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Dry Manure	Corral solids	142.58	58.72	153.63	12,151.95
Application event totals		142.58	58.72	153.63	12,151.95
10/20/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Well 2	Ground water	0.56	0.00	0.00	89.36
Application event totals		0.56	0.00	0.00	89.36
11/30/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Wastewater	Process wastewater	31.81	3.64	13.00	111.41
Well 2	Ground water	0.56	0.00	0.00	89.36
Application event totals		32.38	3.64	13.00	200.76
					4,800,000.00 gal

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Field 3 - 10/15/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
01/14/2023	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
Wastewater	Process wastewater	31.81	3.64	13.00	111.41	900,000.00 gal
Well 2	Ground water	0.56	0.00	0.00	89.36	4,800,000.00 gal
Application event totals		32.38	3.64	13.00	200.76	
04/06/2023	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
Buena Vista Canal	Surface water	0.77	0.00	0.00	65.48	7,200,000.00 gal
Application event totals		0.77	0.00	0.00	65.48	

Field 3 - 06/02/2023: Corn, silage

Field name: Field 3

Crop: Corn, silage

Plant date: 06/02/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/01/2023	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
Dry Manure	Corral solids	256.61	85.94	268.46	6,057.93	486.00 ton
Application event totals		256.61	85.94	268.46	6,057.93	
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
Buena Vista Canal	Surface water	1.16	0.00	0.00	98.21	10,800,000.00 gal
Application event totals		1.16	0.00	0.00	98.21	

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Field 3 - 06/02/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
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
Wastewater	Process wastewater	101.19	14.04	63.55	478.07	2,700,000.00 gal
Buena Vista Canal	Surface water	2.31	0.00	0.00	196.43	21,600,000.00 gal
Application event totals		103.50	14.04	63.55	674.50	
07/31/2023	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
Wastewater	Process wastewater	50.59	7.02	31.78	239.04	1,350,000.00 gal
Buena Vista Canal	Surface water	2.31	0.00	0.00	196.43	21,600,000.00 gal
Application event totals		52.90	7.02	31.78	435.46	
08/10/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater	Process wastewater	50.59	7.02	31.78	239.04	1,350,000.00 gal
Buena Vista Canal	Surface water	2.89	0.00	0.00	245.54	27,000,000.00 gal
Application event totals		53.48	7.02	31.78	484.57	

Field 30 - 10/22/2022: Wheat, silage, soft dough

Field name: Field 30

Crop: Wheat, silage, soft dough Plant date: 10/22/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
10/18/2022	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Dry Manure	Corral solids	205.92	68.97	215.43	4,861.30	570.00 ton
Application event totals		205.92	68.97	215.43	4,861.30	

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Field 30 - 10/22/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
10/27/2022	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
Well 16	Ground water	0.79	0.00	0.00	115.11	6,720,000.00 gal
Application event totals		0.79	0.00	0.00	115.11	
11/26/2022	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
Well 16	Ground water	0.79	0.00	0.00	115.11	6,720,000.00 gal
Application event totals		0.79	0.00	0.00	115.11	
02/06/2023	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
Wastewater	Process wastewater	87.07	9.96	35.58	304.90	3,600,000.00 gal
Well 16	Ground water	0.79	0.00	0.00	115.11	6,720,000.00 gal
Application event totals		87.86	9.96	35.58	420.01	
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
Buena Vista Canal	Surface water	1.05	0.00	0.00	89.60	14,400,000.00 gal
Application event totals		1.05	0.00	0.00	89.60	

Field 30 - 06/14/2023: Corn, silage

Field name: Field 30

Crop: Corn, silage

Plant date: 06/14/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/08/2023	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Dry Manure	Corral solids	164.74	55.17	172.34	3,889.04	456.00 ton
Application event totals		164.74	55.17	172.34	3,889.04	

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Field 30 - 06/14/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/19/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Buena Vista Canal	Surface water	1.26	0.00	0.00	107.52	17,280,000.00 gal
Application event totals		1.26	0.00	0.00	107.52	
07/09/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater	Process wastewater	63.29	10.23	43.96	355.13	2,160,000.00 gal
Buena Vista Canal	Surface water	1.90	0.00	0.00	161.28	25,920,000.00 gal
Application event totals		65.19	10.23	43.96	516.41	
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
Wastewater	Process wastewater	55.39	7.68	34.79	261.68	2,160,000.00 gal
Buena Vista Canal	Surface water	1.90	0.00	0.00	161.28	25,920,000.00 gal
Application event totals		57.28	7.68	34.79	422.96	
08/08/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater	Process wastewater	26.15	3.63	16.43	123.57	1,020,000.00 gal
Buena Vista Canal	Surface water	1.90	0.00	0.00	161.28	25,920,000.00 gal
Application event totals		28.05	3.63	16.43	284.85	
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
Buena Vista Canal	Surface water	1.90	0.00	0.00	161.28	25,920,000.00 gal
Application event totals		1.90	0.00	0.00	161.28	

Field 31 - 10/21/2022: Wheat, silage, soft dough

Field name: Field 31

Crop: Wheat, silage, soft dough

Plant date: 10/21/2022

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Field 31 - 10/21/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
10/18/2022	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Dry Manure	Corral solids	288.29	96.55	301.60	6,805.82	112.00 ton
Application event totals		288.29	96.55	301.60	6,805.82	
10/26/2022	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
Well 17	Ground water	0.00	0.00	0.00	69.10	960,000.00 gal
Application event totals		0.00	0.00	0.00	69.10	
11/25/2022	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
Well 17	Ground water	0.00	0.00	0.00	69.10	960,000.00 gal
Application event totals		0.00	0.00	0.00	69.10	
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
Wastewater	Process wastewater	124.07	14.19	50.70	434.48	720,000.00 gal
Well 17	Ground water	0.00	0.00	0.00	69.10	960,000.00 gal
Application event totals		124.07	14.19	50.70	503.58	
02/04/2023	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
Well 17	Ground water	0.00	0.00	0.00	69.10	960,000.00 gal
Application event totals		0.00	0.00	0.00	69.10	
03/26/2023	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
Well 17	Ground water	0.00	0.00	0.00	138.19	1,920,000.00 gal
Application event totals		0.00	0.00	0.00	138.19	

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Field 31 - 06/13/2023: Corn, silage

Field name: Field 31

Crop: Corn, silage

Plant date: 06/13/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/12/2023	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
Dry Manure	Corral solids	136.58	56.25	147.16	11,640.29	112.00 ton
Application event totals		136.58	56.25	147.16	11,640.29	
06/18/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Buena Vista Canal	Surface water	1.50	0.00	0.00	127.68	2,880,000.00 gal
Application event totals		1.50	0.00	0.00	127.68	
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
Wastewater	Process wastewater	65.77	9.13	41.31	310.75	360,000.00 gal
Buena Vista Canal	Surface water	3.76	0.00	0.00	319.20	7,200,000.00 gal
Application event totals		69.53	9.13	41.31	629.94	
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
Wastewater	Process wastewater	32.89	4.56	20.65	155.37	180,000.00 gal
Buena Vista Canal	Surface water	1.50	0.00	0.00	127.68	2,880,000.00 gal
Application event totals		34.39	4.56	20.65	283.05	
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
Buena Vista Canal	Surface water	3.38	0.00	0.00	287.28	6,480,000.00 gal
Application event totals		3.38	0.00	0.00	287.28	

Field 32 - 10/20/2022: Wheat, silage, soft dough

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

Field 32 - 10/20/2022: Wheat, silage, soft dough

Field name: Field 32

Crop: Wheat, silage, soft dough

Plant date: 10/20/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
10/18/2022	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Dry Manure	Corral solids	117.06	48.21	126.14	9,977.39	564.00 ton
Application event totals		117.06	48.21	126.14	9,977.39	
10/25/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 17	Ground water	0.00	0.00	0.00	70.57	5,760,000.00 gal
Application event totals		0.00	0.00	0.00	70.57	
12/04/2022	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
Wastewater	Process wastewater	63.36	7.25	25.89	221.86	2,160,000.00 gal
Well 17	Ground water	0.00	0.00	0.00	70.57	5,760,000.00 gal
Application event totals		63.36	7.25	25.89	292.43	
02/02/2023	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
Wastewater	Process wastewater	63.36	7.25	25.89	221.86	2,160,000.00 gal
Well 17	Ground water	0.00	0.00	0.00	70.57	5,760,000.00 gal
Application event totals		63.36	7.25	25.89	292.43	
03/04/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 17	Ground water	0.00	0.00	0.00	70.57	5,760,000.00 gal
Application event totals		0.00	0.00	0.00	70.57	

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Field 32 - 10/20/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
04/03/2023	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
Wastewater	Process wastewater	74.83	7.96	32.79	256.00	2,160,000.00 gal
Buena Vista Canal	Surface water	0.38	0.00	0.00	32.60	4,320,000.00 gal
Application event totals		75.22	7.96	32.79	288.59	
05/03/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Buena Vista Canal	Surface water	0.38	0.00	0.00	32.60	4,320,000.00 gal
Application event totals		0.38	0.00	0.00	32.60	

Field 32 - 06/15/2023: Corn, silage

Field name: Field 32

Crop: Corn, silage

Plant date: 06/15/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/10/2023	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
Dry Manure	Corral solids	247.11	82.76	258.51	5,833.56	564.00 ton
Application event totals		247.11	82.76	258.51	5,833.56	
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
Buena Vista Canal	Surface water	1.53	0.00	0.00	130.40	17,280,000.00 gal
Application event totals		1.53	0.00	0.00	130.40	
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
Buena Vista Canal	Surface water	2.30	0.00	0.00	195.59	25,920,000.00 gal
Application event totals		2.30	0.00	0.00	195.59	

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Field 32 - 06/15/2023: 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
Wastewater	Process wastewater	67.17	9.32	42.19	317.36	2,160,000.00 gal
Buena Vista Canal	Surface water	2.30	0.00	0.00	195.59	25,920,000.00 gal
Application event totals		69.47	9.32	42.19	512.95	
08/18/2023	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
Wastewater	Process wastewater	67.17	9.32	42.19	317.36	2,160,000.00 gal
Buena Vista Canal	Surface water	2.30	0.00	0.00	195.59	25,920,000.00 gal
Application event totals		69.47	9.32	42.19	512.95	
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
Buena Vista Canal	Surface water	1.53	0.00	0.00	130.40	17,280,000.00 gal
Application event totals		1.53	0.00	0.00	130.40	

Field 33 - 10/26/2022: Wheat, silage, soft dough

Field name: Field 33

Crop: Wheat, silage, soft dough

Plant date: 10/26/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
10/15/2022	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Dry Manure	Corral solids	173.99	58.27	182.02	4,107.53	376.00 ton
Application event totals		173.99	58.27	182.02	4,107.53	

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Field 33 - 10/26/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
10/31/2022	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
Well 17	Ground water	0.00	0.00	0.00	74.53	5,760,000.00 gal
Application event totals		0.00	0.00	0.00	74.53	
12/10/2022	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
Wastewater	Process wastewater	33.46	3.83	13.67	117.16	1,080,000.00 gal
Well 17	Ground water	0.00	0.00	0.00	74.53	5,760,000.00 gal
Application event totals		33.46	3.83	13.67	191.69	
02/08/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater	Process wastewater	66.92	7.66	27.34	234.33	2,160,000.00 gal
Well 17	Ground water	0.00	0.00	0.00	74.53	5,760,000.00 gal
Application event totals		66.92	7.66	27.34	308.86	
03/10/2023	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
Well 17	Ground water	0.00	0.00	0.00	37.27	2,880,000.00 gal
Application event totals		0.00	0.00	0.00	37.27	
04/09/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater	Process wastewater	81.07	13.10	56.30	454.88	2,160,000.00 gal
Buena Vista Canal	Surface water	0.41	0.00	0.00	34.43	4,320,000.00 gal
Application event totals		81.48	13.10	56.30	489.31	

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Field 33 - 10/26/2022: 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)
Buena Vista Canal	Surface water	0.41	0.00	0.00	34.43
Application event totals		0.41	0.00	0.00	34.43
					4,320,000.00 gal

Field 34 - 01/01/2023: Alfalfa, hay

Field name: Field 34

Crop: Alfalfa, hay

Plant date: 01/01/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
02/01/2023	Broadcast/incorporate	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Dry Manure	Corral solids	123.55	41.38	129.26	2,916.78
Application event totals		123.55	41.38	129.26	2,916.78
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)
Well 18	Ground water	0.63	0.00	0.00	114.00
Application event totals		0.63	0.00	0.00	114.00
03/17/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Buena Vista Canal	Surface water	0.73	0.00	0.00	62.11
Application event totals		0.73	0.00	0.00	62.11
04/16/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Buena Vista Canal	Surface water	0.97	0.00	0.00	82.82
Application event totals		0.97	0.00	0.00	82.82
					8,640,000.00 gal

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Field 34 - 01/01/2023: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/16/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Buena Vista Canal	Surface water	1.46	0.00	0.00	124.23	12,960,000.00 gal
Application event totals		1.46	0.00	0.00	124.23	
06/15/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Buena Vista Canal	Surface water	1.95	0.00	0.00	165.64	17,280,000.00 gal
Application event totals		1.95	0.00	0.00	165.64	
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
Buena Vista Canal	Surface water	1.95	0.00	0.00	165.64	17,280,000.00 gal
Application event totals		1.95	0.00	0.00	165.64	
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
Buena Vista Canal	Surface water	1.46	0.00	0.00	124.23	12,960,000.00 gal
Application event totals		1.46	0.00	0.00	124.23	
09/13/2023	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
Buena Vista Canal	Surface water	1.46	0.00	0.00	124.23	12,960,000.00 gal
Application event totals		1.46	0.00	0.00	124.23	
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
Buena Vista Canal	Surface water	0.73	0.00	0.00	62.11	6,480,000.00 gal
Application event totals		0.73	0.00	0.00	62.11	

Field 35 - 05/29/2023: Corn, silage

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Field 35 - 05/29/2023: Corn, silage

Field name: Field 35

Crop: Corn, silage

Plant date: 05/29/2023

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
Slurry	Process wastewater sludge	135.83	0.83	1.64	403.34	252,000.00 gal
Application event totals		135.83	0.83	1.64	403.34	
06/03/2023	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
Buena Vista Canal	Surface water	1.13	0.00	0.00	95.76	8,640,000.00 gal
Application event totals		1.13	0.00	0.00	95.76	
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
Wastewater	Process wastewater	49.33	6.84	30.98	233.06	1,080,000.00 gal
Buena Vista Canal	Surface water	2.25	0.00	0.00	191.52	17,280,000.00 gal
Application event totals		51.58	6.84	30.98	424.58	
07/08/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater	Process wastewater	98.66	13.69	61.96	466.12	2,160,000.00 gal
Buena Vista Canal	Surface water	2.25	0.00	0.00	191.52	17,280,000.00 gal
Application event totals		100.91	13.69	61.96	657.64	
07/23/2023	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
Buena Vista Canal	Surface water	2.25	0.00	0.00	191.52	17,280,000.00 gal
Application event totals		2.25	0.00	0.00	191.52	

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Field 35 - 05/29/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
08/20/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Buena Vista Canal	Surface water	2.25	0.00	0.00	191.52
Application event totals		2.25	0.00	0.00	191.52
					17,280,000.00 gal

Field 36 - 01/01/2023: Alfalfa, hay

Field name: Field 36

Crop: Alfalfa, hay

Plant date: 01/01/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
02/01/2023	Broadcast/incorporate	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Dry Manure	Corral solids	123.55	41.38	129.26	2,916.78
Application event totals		123.55	41.38	129.26	2,916.78
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)
Well 18	Ground water	0.61	0.00	0.00	109.56
Application event totals		0.61	0.00	0.00	109.56
03/17/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Buena Vista Canal	Surface water	0.70	0.00	0.00	59.69
Application event totals		0.70	0.00	0.00	59.69
04/16/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Buena Vista Canal	Surface water	0.94	0.00	0.00	79.59
Application event totals		0.94	0.00	0.00	79.59
					8,640,000.00 gal

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Field 36 - 01/01/2023: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/16/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Buena Vista Canal	Surface water	1.40	0.00	0.00	119.39	12,960,000.00 gal
Application event totals		1.40	0.00	0.00	119.39	
06/15/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Buena Vista Canal	Surface water	1.87	0.00	0.00	159.18	17,280,000.00 gal
Application event totals		1.87	0.00	0.00	159.18	
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
Buena Vista Canal	Surface water	1.87	0.00	0.00	159.18	17,280,000.00 gal
Application event totals		1.87	0.00	0.00	159.18	
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
Buena Vista Canal	Surface water	1.40	0.00	0.00	119.39	12,960,000.00 gal
Application event totals		1.40	0.00	0.00	119.39	
09/13/2023	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
Buena Vista Canal	Surface water	1.40	0.00	0.00	119.39	12,960,000.00 gal
Application event totals		1.40	0.00	0.00	119.39	
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
Buena Vista Canal	Surface water	0.70	0.00	0.00	59.69	6,480,000.00 gal
Application event totals		0.70	0.00	0.00	59.69	

Field 4 - 10/17/2022: Wheat, silage, soft dough

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Field 4 - 10/17/2022: Wheat, silage, soft dough

Field name: Field 4

Crop: Wheat, silage, soft dough

Plant date: 10/17/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
10/10/2022	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
Slurry	Process wastewater sludge	155.68	0.95	1.88	462.27	352,000.00 gal
Application event totals		155.68	0.95	1.88	462.27	
10/22/2022	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
Well 2	Ground water	0.42	0.00	0.00	67.02	3,600,000.00 gal
Application event totals		0.42	0.00	0.00	67.02	
11/21/2022	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
Well 2	Ground water	0.42	0.00	0.00	67.02	3,600,000.00 gal
Application event totals		0.42	0.00	0.00	67.02	
12/31/2022	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
Wastewater	Process wastewater	47.72	5.46	19.50	167.11	1,350,000.00 gal
Well 2	Ground water	0.42	0.00	0.00	67.02	3,600,000.00 gal
Well 3	Ground water	1.61	0.00	0.00	82.33	2,250,000.00 gal
Application event totals		49.76	5.46	19.50	316.45	
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
Wastewater	Process wastewater	47.72	5.46	19.50	167.11	1,350,000.00 gal
Well 2	Ground water	0.42	0.00	0.00	67.02	3,600,000.00 gal
Application event totals		48.14	5.46	19.50	234.13	

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Field 4 - 10/17/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
03/15/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Buena Vista Canal	Surface water	0.58	0.00	0.00	49.11	5,400,000.00 gal
Application event totals		0.58	0.00	0.00	49.11	

Field 4 - 05/30/2023: Corn, silage

Field name: Field 4

Crop: Corn, silage

Plant date: 05/30/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/28/2023	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
Dry Manure	Corral solids	97.55	40.18	105.12	8,314.49	390.00 ton
Application event totals		97.55	40.18	105.12	8,314.49	
06/04/2023	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
Buena Vista Canal	Surface water	1.16	0.00	0.00	98.21	10,800,000.00 gal
Application event totals		1.16	0.00	0.00	98.21	
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
Wastewater	Process wastewater	57.81	9.34	40.15	324.40	1,350,000.00 gal
Buena Vista Canal	Surface water	1.16	0.00	0.00	98.21	10,800,000.00 gal
Application event totals		58.97	9.34	40.15	422.61	

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Field 4 - 05/30/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
07/19/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater	Process wastewater	50.59	7.02	31.78	239.04	1,350,000.00 gal
Buena Vista Canal	Surface water	2.31	0.00	0.00	196.43	21,600,000.00 gal
Application event totals		52.90	7.02	31.78	435.46	
07/29/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater	Process wastewater	50.59	7.02	31.78	239.04	1,350,000.00 gal
Buena Vista Canal	Surface water	2.31	0.00	0.00	196.43	21,600,000.00 gal
Application event totals		52.90	7.02	31.78	435.46	
08/18/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Buena Vista Canal	Surface water	2.31	0.00	0.00	196.43	21,600,000.00 gal
Application event totals		2.31	0.00	0.00	196.43	

Field 5 - 10/17/2022: Wheat, silage, soft dough

Field name:	Field 5	Plant date:	10/17/2022			
Crop:	Wheat, silage, soft dough					
Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
10/15/2022	Broadcast/incorporate	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Dry Manure	Corral solids	58.53	24.11	63.07	4,988.69	468.00 ton
Application event totals		58.53	24.11	63.07	4,988.69	

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Field 5 - 10/17/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
10/22/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 4	Ground water	0.00	0.00	0.00	124.79	10,800,000.00 gal
Application event totals		0.00	0.00	0.00	124.79	
12/09/2022	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
Wastewater	Process wastewater	57.26	6.55	23.40	200.53	3,240,000.00 gal
Well 4	Ground water	0.00	0.00	0.00	124.79	10,800,000.00 gal
Application event totals		57.26	6.55	23.40	325.32	
02/16/2023	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
Wastewater	Process wastewater	57.26	6.55	23.40	200.53	3,240,000.00 gal
Well 4	Ground water	0.00	0.00	0.00	124.79	10,800,000.00 gal
Application event totals		57.26	6.55	23.40	325.32	
04/02/2023	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
Buena Vista Canal	Surface water	1.39	0.00	0.00	117.86	25,920,000.00 gal
Application event totals		1.39	0.00	0.00	117.86	

Field 5 - 06/15/2023: Corn, silage

Field name: Field 5

Crop: Corn, silage

Plant date: 06/15/2023

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

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Field 5 - 06/15/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/10/2023	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
Dry Manure	Corral solids	123.55	41.38	129.26	2,916.78	468.00 ton
Application event totals		123.55	41.38	129.26	2,916.78	
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
Buena Vista Canal	Surface water	1.85	0.00	0.00	157.14	34,560,000.00 gal
Application event totals		1.85	0.00	0.00	157.14	
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
Wastewater	Process wastewater	101.19	14.04	63.55	478.07	5,400,000.00 gal
Buena Vista Canal	Surface water	2.31	0.00	0.00	196.43	43,200,000.00 gal
Application event totals		103.50	14.04	63.55	674.50	
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
Wastewater	Process wastewater	50.59	7.02	31.78	239.04	2,700,000.00 gal
Buena Vista Canal	Surface water	2.31	0.00	0.00	196.43	43,200,000.00 gal
Application event totals		52.90	7.02	31.78	435.46	
08/19/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater	Process wastewater	50.59	7.02	31.78	239.04	2,700,000.00 gal
Buena Vista Canal	Surface water	2.31	0.00	0.00	196.43	43,200,000.00 gal
Application event totals		52.90	7.02	31.78	435.46	

Field 6 - 01/01/2023: Alfalfa, hay

Field name: Field 6

Crop: Alfalfa, hay

Plant date: 01/01/2023

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

Field 6 - 01/01/2023: Alfalfa, hay

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
01/12/2023	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
Dry Manure	Corral solids	123.55	41.38	129.26	2,916.78	468.00 ton
Application event totals		123.55	41.38	129.26	2,916.78	
01/26/2023	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
Well 3	Ground water	3.23	0.00	0.00	164.65	9,000,000.00 gal
Application event totals		3.23	0.00	0.00	164.65	
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
Well 3	Ground water	3.23	0.00	0.00	164.65	9,000,000.00 gal
Application event totals		3.23	0.00	0.00	164.65	
03/27/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well 3	Ground water	3.23	0.00	0.00	164.65	9,000,000.00 gal
Application event totals		3.23	0.00	0.00	164.65	
04/26/2023	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
Buena Vista Canal	Surface water	1.16	0.00	0.00	98.21	21,600,000.00 gal
Application event totals		1.16	0.00	0.00	98.21	
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
Buena Vista Canal	Surface water	1.16	0.00	0.00	98.21	21,600,000.00 gal
Application event totals		1.16	0.00	0.00	98.21	

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Field 6 - 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
Buena Vista Canal	Surface water	1.16	0.00	0.00	98.21	21,600,000.00 gal
Application event totals		1.16	0.00	0.00	98.21	
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
Buena Vista Canal	Surface water	1.16	0.00	0.00	98.21	21,600,000.00 gal
Application event totals		1.16	0.00	0.00	98.21	
08/24/2023	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
Buena Vista Canal	Surface water	2.08	0.00	0.00	176.79	38,880,000.00 gal
Application event totals		2.08	0.00	0.00	176.79	
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
Buena Vista Canal	Surface water	1.73	0.00	0.00	147.32	32,400,000.00 gal
Application event totals		1.73	0.00	0.00	147.32	
10/23/2023	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
Buena Vista Canal	Surface water	1.16	0.00	0.00	98.21	21,600,000.00 gal
Application event totals		1.16	0.00	0.00	98.21	

Field 7 - 10/22/2022: Wheat, silage, soft dough

Field name: Field 7

Crop: Wheat, silage, soft dough

Plant date: 10/22/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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Field 7 - 10/22/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
10/20/2022	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Dry Manure	Corral solids	310.88	104.12	325.23	7,338.99	234.00 ton
Application event totals		310.88	104.12	325.23	7,338.99	
10/27/2022	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
Well 4	Ground water	0.00	0.00	0.00	104.66	1,800,000.00 gal
Application event totals		0.00	0.00	0.00	104.66	
12/01/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater	Process wastewater	48.03	5.49	19.62	168.19	540,000.00 gal
Well 4	Ground water	0.00	0.00	0.00	104.66	1,800,000.00 gal
Application event totals		48.03	5.49	19.62	272.85	
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
Wastewater	Process wastewater	48.03	5.49	19.62	168.19	540,000.00 gal
Well 4	Ground water	0.00	0.00	0.00	209.32	3,600,000.00 gal
Application event totals		48.03	5.49	19.62	377.51	
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
Buena Vista Canal	Surface water	0.58	0.00	0.00	49.42	2,160,000.00 gal
Application event totals		0.58	0.00	0.00	49.42	

Field 7 - 06/03/2023: Corn, silage

Field name: Field 7

Crop: Corn, silage

Plant date: 06/03/2023

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

Field 7 - 06/03/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/30/2023	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
Dry Manure	Corral solids	190.23	78.34	204.97	16,213.26	312.00 ton
Application event totals		190.23	78.34	204.97	16,213.26	
06/08/2023	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
Buena Vista Canal	Surface water	1.69	0.00	0.00	143.64	6,480,000.00 gal
Application event totals		1.69	0.00	0.00	143.64	
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
Wastewater	Process wastewater	56.37	9.11	39.15	316.29	540,000.00 gal
Buena Vista Canal	Surface water	2.25	0.00	0.00	191.52	8,640,000.00 gal
Application event totals		58.62	9.11	39.15	507.80	
07/23/2023	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
Wastewater	Process wastewater	49.33	6.84	30.98	233.06	540,000.00 gal
Buena Vista Canal	Surface water	2.82	0.00	0.00	239.40	10,800,000.00 gal
Application event totals		52.14	6.84	30.98	472.46	
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
Wastewater	Process wastewater	49.33	6.84	30.98	233.06	540,000.00 gal
Buena Vista Canal	Surface water	2.25	0.00	0.00	191.52	8,640,000.00 gal
Application event totals		51.58	6.84	30.98	424.58	

Field 8 - 10/22/2022: Wheat, silage, soft dough

Field name: Field 8

Crop: Wheat, silage, soft dough

Plant date: 10/22/2022

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

Field 8 - 10/22/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
10/10/2022	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Dry Manure	Corral solids	288.29	96.55	301.60	6,805.82	308.00 ton
Application event totals		288.29	96.55	301.60	6,805.82	
10/27/2022	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
Well 4	Ground water	0.00	0.00	0.00	110.61	2,700,000.00 gal
Application event totals		0.00	0.00	0.00	110.61	
12/01/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater	Process wastewater	101.51	11.61	41.48	355.49	1,620,000.00 gal
Well 4	Ground water	0.00	0.00	0.00	110.61	2,700,000.00 gal
Application event totals		101.51	11.61	41.48	466.09	
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
Wastewater	Process wastewater	67.68	7.74	27.65	236.99	1,080,000.00 gal
Well 4	Ground water	0.00	0.00	0.00	294.96	7,200,000.00 gal
Application event totals		67.68	7.74	27.65	531.95	

Field 8 - 06/13/2023: Corn, silage

Field name: Field 8

Crop: Corn, silage

Plant date: 06/13/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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Field 8 - 06/13/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/08/2023	Broadcast/incorporate	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Dry Manure	Corral solids	205.92	68.97	215.43	4,861.30	220.00 ton
Application event totals		205.92	68.97	215.43	4,861.30	
06/18/2023	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
Buena Vista Canal	Surface water	1.23	0.00	0.00	104.46	6,480,000.00 gal
Application event totals		1.23	0.00	0.00	104.46	
07/13/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater	Process wastewater	81.99	13.25	56.94	460.05	1,080,000.00 gal
Buena Vista Canal	Surface water	2.46	0.00	0.00	208.93	12,960,000.00 gal
Application event totals		84.45	13.25	56.94	668.98	
08/02/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater	Process wastewater	71.75	9.95	45.06	339.00	1,080,000.00 gal
Buena Vista Canal	Surface water	2.46	0.00	0.00	208.93	12,960,000.00 gal
Application event totals		74.21	9.95	45.06	547.93	
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
Buena Vista Canal	Surface water	2.46	0.00	0.00	208.93	12,960,000.00 gal
Application event totals		2.46	0.00	0.00	208.93	
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
Buena Vista Canal	Surface water	2.46	0.00	0.00	208.93	12,960,000.00 gal
Application event totals		2.46	0.00	0.00	208.93	

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Field 9 - 11/05/2022: Wheat, silage, soft dough

Field name: Field 9

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	
11/01/2022	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
Dry Manure	Corral solids	164.74	55.17	172.34	3,889.04	512.00 ton
Application event totals		164.74	55.17	172.34	3,889.04	
11/13/2022	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
Well 6	Ground water	0.00	0.00	0.00	149.27	7,200,000.00 gal
Application event totals		0.00	0.00	0.00	149.27	
12/13/2022	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
Wastewater	Process wastewater	29.08	3.33	11.88	101.83	1,350,000.00 gal
Well 6	Ground water	0.00	0.00	0.00	298.54	14,400,000.00 gal
Application event totals		29.08	3.33	11.88	400.37	
01/24/2023	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
Wastewater	Process wastewater	58.16	6.65	23.76	203.66	2,700,000.00 gal
Well 6	Ground water	0.00	0.00	0.00	298.54	14,400,000.00 gal
Application event totals		58.16	6.65	23.76	502.21	

Field 9 - 06/16/2023: Corn, silage

Field name: Field 9

Crop: Corn, silage

Plant date: 06/16/2023

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.

Field 9 - 06/16/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/05/2023	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
Dry Manure	Corral solids	205.92	68.97	215.43	4,861.30	640.00 ton
Application event totals		205.92	68.97	215.43	4,861.30	
06/21/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Buena Vista Canal	Surface water	0.70	0.00	0.00	59.85	10,800,000.00 gal
Application event totals		0.70	0.00	0.00	59.85	
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
Wastewater	Process wastewater	70.46	11.39	48.94	395.36	2,700,000.00 gal
Buena Vista Canal	Surface water	1.41	0.00	0.00	119.70	21,600,000.00 gal
Application event totals		71.87	11.39	48.94	515.06	
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
Wastewater	Process wastewater	61.66	8.55	38.73	291.33	2,700,000.00 gal
Buena Vista Canal	Surface water	2.11	0.00	0.00	179.55	32,400,000.00 gal
Application event totals		63.77	8.55	38.73	470.87	
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
Wastewater	Process wastewater	61.66	8.55	38.73	291.33	2,700,000.00 gal
Buena Vista Canal	Surface water	2.82	0.00	0.00	239.40	43,200,000.00 gal
Application event totals		64.48	8.55	38.73	530.72	

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Field 9 - 06/16/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
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)
Buena Vista Canal	Surface water	2.82	0.00	0.00	239.40
Application event totals		2.82	0.00	0.00	239.40
					43,200,000.00 gal

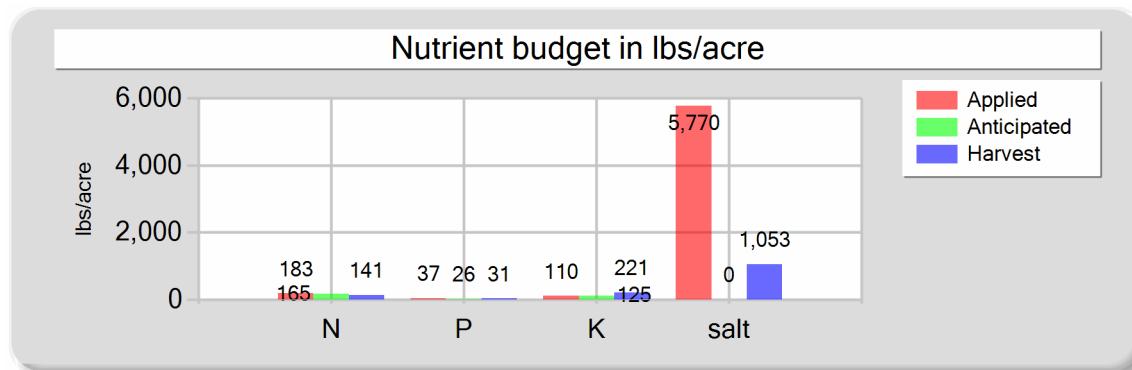
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Reporting period 01/01/2023 to 12/31/2023.

B. NUTRIENT BUDGET

Field 1 - 10/14/2022: Wheat, silage, soft dough

Field name: Field 1 Crop: Wheat, silage, soft dough Plant date: 10/14/2022



	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	58.53	24.11	63.07	4,988.69
Process wastewater	114.53	13.10	46.80	401.06
Fresh water	2.73	0.00	0.00	380.61
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	182.79	37.21	109.87	5,770.36
Anticipated crop nutrient removal	165.00	25.50	124.50	0.00
Actual crop nutrient removal	141.32	31.39	220.65	1,053.12
Nutrient balance	41.47	5.81	-110.79	4,717.24
Applied to removed ratio	1.29	1.19	0.50	5.48

Fresh water applied
23,760,000.00 gallons
875.00 acre-inches
11.22 inches/acre
Process wastewater applied
3,240,000.00 gallons
119.32 acre-inches
1.53 inches/acre
Total harvests for the crop
1 harvests

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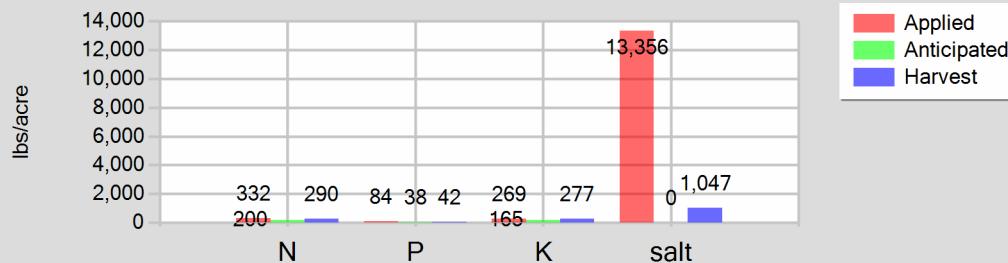
Field 1 - 06/10/2023: Corn, silage

Field name: Field 1

Crop: Corn, silage

Plant date: 06/10/2023

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	136.58	56.25	147.16	11,640.29
Process wastewater	179.23	28.04	121.79	969.78
Fresh water	8.78	0.00	0.00	746.43
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	331.59	84.29	268.95	13,356.49
Anticipated crop nutrient removal	200.00	37.50	165.00	0.00
Actual crop nutrient removal	290.12	42.02	276.92	1,046.50
Nutrient balance	41.47	42.27	-7.97	12,309.99
Applied to removed ratio	1.14	2.01	0.97	12.76

Fresh water applied

82,080,000.00 gallons
3,022.73 acre-inches
38.75 inches/acre

Process wastewater applied

4,320,000.00 gallons
159.09 acre-inches
2.04 inches/acre

Total harvests for the crop

1 harvests

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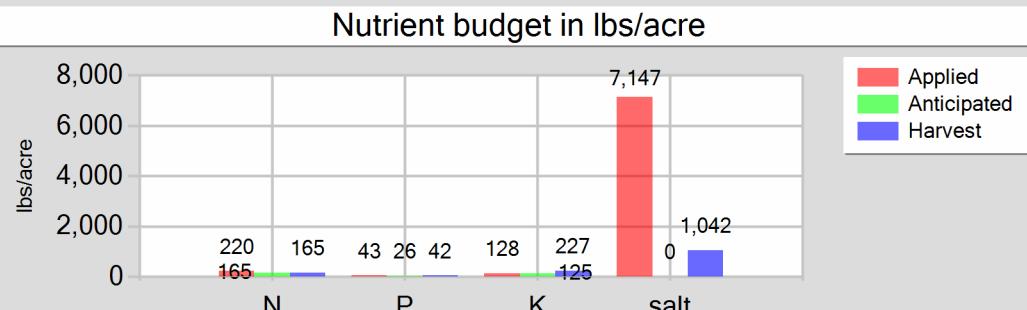
Reporting period 01/01/2023 to 12/31/2023.

Field 10 - 11/08/2022: Wheat, silage, soft dough

Field name: Field 10

Crop: Wheat, silage, soft dough

Plant date: 11/08/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	66.77	27.50	71.95	5,690.81
Process wastewater	137.86	15.77	56.33	482.76
Fresh water	7.88	0.00	0.00	973.58
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	219.51	43.27	128.27	7,147.15
Anticipated crop nutrient removal	165.00	25.50	124.50	0.00
Actual crop nutrient removal	165.07	42.18	226.85	1,042.29
Nutrient balance	54.44	1.09	-98.58	6,104.86
Applied to removed ratio	1.33	1.03	0.57	6.86

Fresh water applied

37,500,000.00 gallons
1,381.00 acre-inches
10.23 inches/acre

Process wastewater applied

6,750,000.00 gallons
248.58 acre-inches
1.84 inches/acre

Total harvests for the crop

1 harvests

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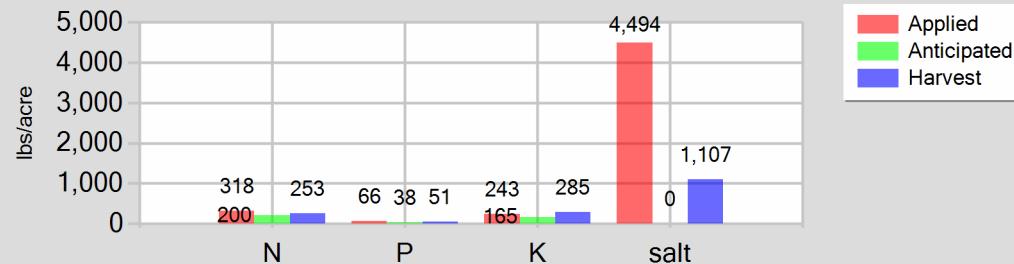
Field 10 - 06/17/2023: Corn, silage

Field name: Field 10

Crop: Corn, silage

Plant date: 06/17/2023

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	117.45	39.34	122.87	2,772.74
Process wastewater	183.74	27.02	119.83	927.30
Fresh water	9.35	0.00	0.00	794.44
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	317.53	66.36	242.71	4,494.48
Anticipated crop nutrient removal	200.00	37.50	165.00	0.00
Actual crop nutrient removal	253.45	51.22	284.75	1,107.35
Nutrient balance	64.09	15.14	-42.04	3,387.13
Applied to removed ratio	1.25	1.30	0.85	4.06

Fresh water applied

151,200,000.00 gallons
5,568.18 acre-inches
41.25 inches/acre

Process wastewater applied

8,100,000.00 gallons
298.30 acre-inches
2.21 inches/acre

Total harvests for the crop

1 harvests

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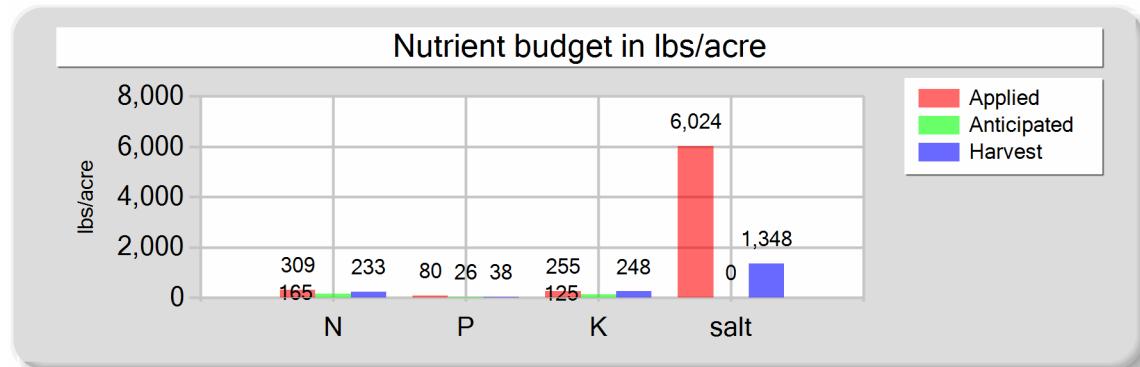
Reporting period 01/01/2023 to 12/31/2023.

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

Field name: Field 11

Crop: Wheat, silage, soft dough

Plant date: 10/10/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	205.92	68.97	215.43	4,861.30
Process wastewater	96.40	11.03	39.39	337.58
Fresh water	0.00	0.00	0.00	824.75
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	309.32	80.00	254.82	6,023.63
Anticipated crop nutrient removal	165.00	25.50	124.50	0.00
Actual crop nutrient removal	232.77	38.44	248.38	1,347.97
Nutrient balance	76.55	41.55	6.44	4,675.66
Applied to removed ratio	1.33	2.08	1.03	4.47

Fresh water applied
43,200,000.00 gallons
1,590.91 acre-inches
11.45 inches/acre

Process wastewater applied
4,860,000.00 gallons
178.98 acre-inches
1.29 inches/acre

Total harvests for the crop
1 harvests

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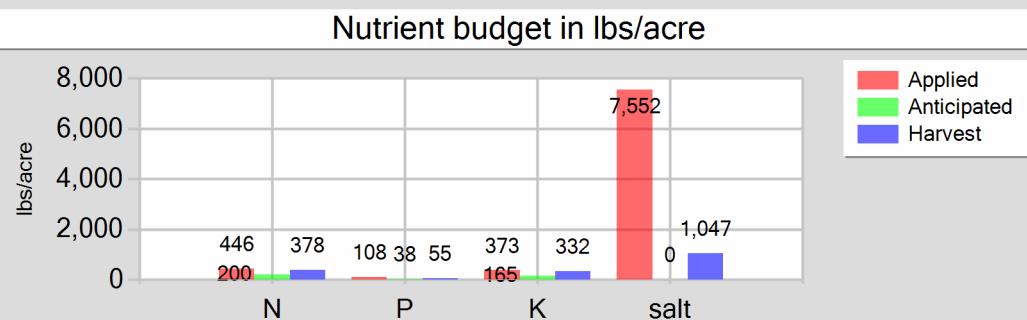
Reporting period 01/01/2023 to 12/31/2023.

Field 11 - 06/19/2023: Corn, silage

Field name: Field 11

Crop: Corn, silage

Plant date: 06/19/2023



	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	247.11	82.76	258.51	5,833.56
Process wastewater	181.70	25.21	114.12	858.47
Fresh water	10.11	0.00	0.00	859.76
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	445.92	107.97	372.63	7,551.79
Anticipated crop nutrient removal	200.00	37.50	165.00	0.00
Actual crop nutrient removal	378.00	55.45	331.56	1,047.03
Nutrient balance	67.92	52.52	41.07	6,504.76
Applied to removed ratio	1.18	1.95	1.12	7.21

Fresh water applied

168,480,000.00 gallons
6,204.55 acre-inches
44.64 inches/acre

Process wastewater applied

8,640,000.00 gallons
318.18 acre-inches
2.29 inches/acre

Total harvests for the crop

1 harvests

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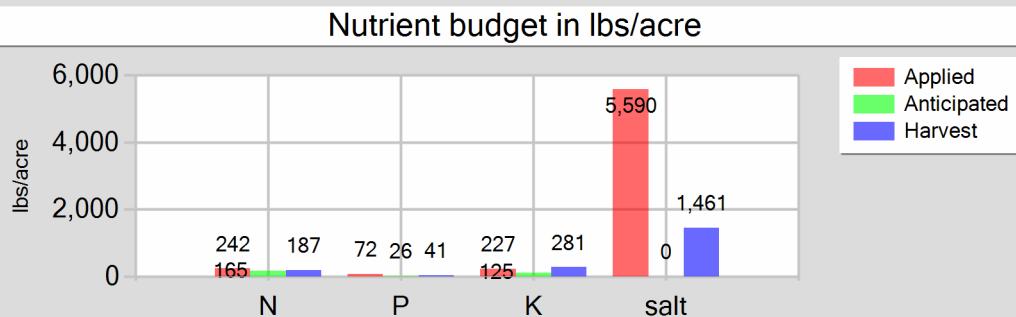
Reporting period 01/01/2023 to 12/31/2023.

Field 12 - 11/16/2022: Wheat, silage, soft dough

Field name: Field 12

Crop: Wheat, silage, soft dough

Plant date: 11/16/2022



	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	23,760,000.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	875.00 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	10.94 inches/acre
Dry manure	205.92	68.97	215.43	4,861.30	
Process wastewater	27.92	3.19	11.41	97.76	Process wastewater applied
Fresh water	0.68	0.00	0.00	630.66	810,000.00 gallons
Atmospheric deposition	7.00	0.00	0.00	0.00	29.83 acre-inches
Total nutrients applied	241.51	72.16	226.83	5,589.72	0.37 inches/acre
Anticipated crop nutrient removal	165.00	25.50	124.50	0.00	
Actual crop nutrient removal	187.34	40.53	280.78	1,461.08	Total harvests for the crop
Nutrient balance	54.18	31.63	-53.95	4,128.64	1 harvests
Applied to removed ratio	1.29	1.78	0.81	3.83	

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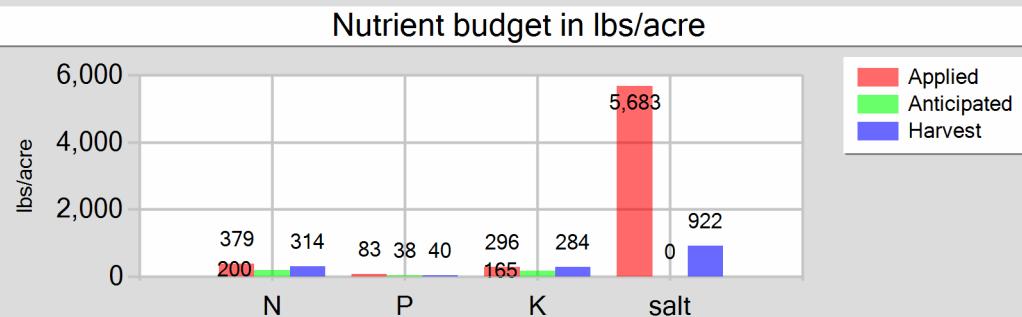
Reporting period 01/01/2023 to 12/31/2023.

Field 12 - 06/23/2023: Corn, silage

Field name: Field 12

Crop: Corn, silage

Plant date: 06/23/2023



	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	97,200,000.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	3,579.55 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	44.74 inches/acre
Dry manure	164.74	55.17	172.34	3,889.04	
Process wastewater	197.31	27.38	123.92	932.24	5,400,000.00 gallons
Fresh water	10.14	0.00	0.00	861.83	198.86 acre-inches
Atmospheric deposition	7.00	0.00	0.00	0.00	2.49 inches/acre
Total nutrients applied	379.19	82.55	296.27	5,683.11	
Anticipated crop nutrient removal	200.00	37.50	165.00	0.00	
Actual crop nutrient removal	314.24	40.45	284.16	921.60	
Nutrient balance	64.95	42.10	12.11	4,761.51	
Applied to removed ratio	1.21	2.04	1.04	6.17	
Total harvests for the crop					1 harvests

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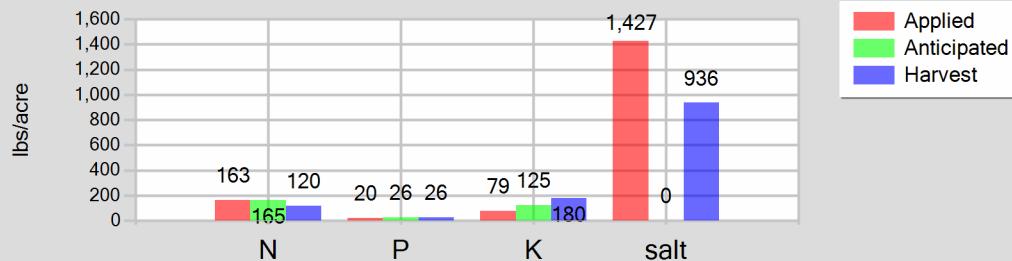
Field 13 - 11/18/2022: Wheat, silage, soft dough

Field name: Field 13

Crop: Wheat, silage, soft dough

Plant date: 11/18/2022

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	152.60	20.18	78.81	655.81
Fresh water	3.17	0.00	0.00	771.17
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	162.77	20.18	78.81	1,426.98
Anticipated crop nutrient removal	165.00	25.50	124.50	0.00
Actual crop nutrient removal	120.07	25.98	179.96	936.44
Nutrient balance	42.70	-5.80	-101.15	490.53
Applied to removed ratio	1.36	0.78	0.44	1.52

Fresh water applied

29,200,000.00 gallons
1,075.34 acre-inches
11.44 inches/acre

Process wastewater applied

4,860,000.00 gallons
178.98 acre-inches
1.90 inches/acre

Total harvests for the crop

1 harvests

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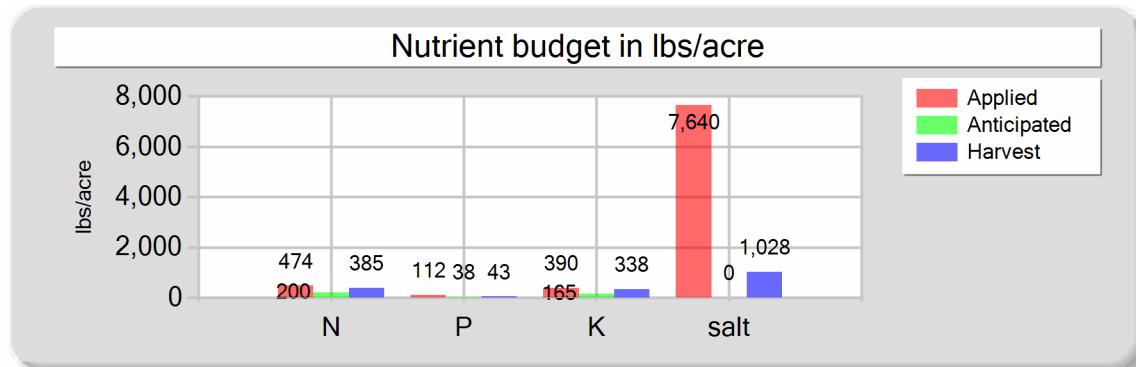
Reporting period 01/01/2023 to 12/31/2023.

Field 13 - 06/26/2023: Corn, silage

Field name: Field 13

Crop: Corn, silage

Plant date: 06/26/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	247.11	82.76	258.51	5,833.56
Process wastewater	209.91	29.12	131.83	991.75
Fresh water	9.59	0.00	0.00	814.97
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	473.60	111.88	390.35	7,640.27
Anticipated crop nutrient removal	200.00	37.50	165.00	0.00
Actual crop nutrient removal	384.62	43.08	338.42	1,027.95
Nutrient balance	88.99	68.80	51.93	6,612.32
Applied to removed ratio	1.23	2.60	1.15	7.43

Fresh water applied
108,000,000.00 gallons
3,977.27 acre-inches
42.31 inches/acre

Process wastewater applied
6,750,000.00 gallons
248.58 acre-inches
2.64 inches/acre

Total harvests for the crop
1 harvests

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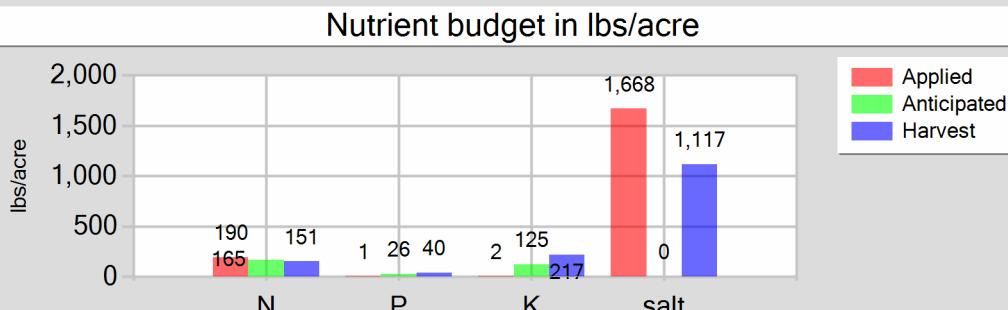
Reporting period 01/01/2023 to 12/31/2023.

Field 14 A - 11/19/2022: Wheat, silage, soft dough

Field name: Field 14 A

Crop: Wheat, silage, soft dough

Plant date: 11/19/2022



	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	179.99	1.10	2.17	534.44
Fresh water	2.79	0.00	0.00	1,133.76
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	189.77	1.10	2.17	1,668.20
Anticipated crop nutrient removal	165.00	25.50	124.50	0.00
Actual crop nutrient removal	151.11	39.86	216.82	1,116.58
Nutrient balance	38.66	-38.76	-214.66	551.62
Applied to removed ratio	1.26	0.03	0.01	1.49

Fresh water applied

23,040,000.00 gallons
848.48 acre-inches
12.30 inches/acre

Process wastewater applied

360,000.00 gallons
13.26 acre-inches
0.19 inches/acre

Total harvests for the crop

1 harvests

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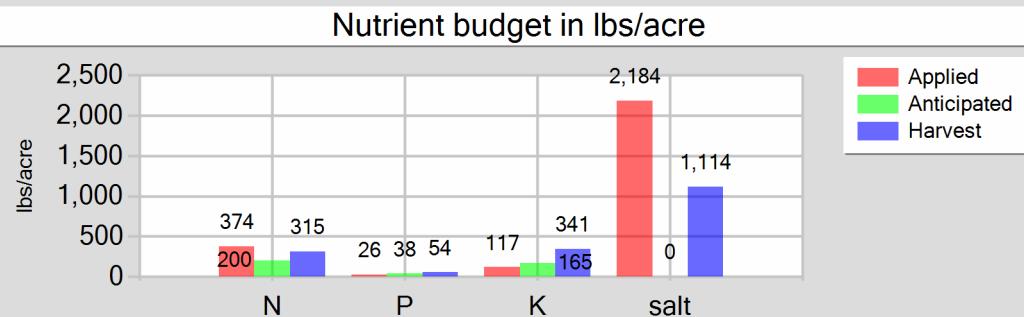
Reporting period 01/01/2023 to 12/31/2023.

Field 14 A - 07/04/2023: Corn, silage

Field name: Field 14 A

Crop: Corn, silage

Plant date: 07/04/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	358.00	26.46	117.05	1,384.28
Fresh water	9.40	0.00	0.00	799.38
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	374.41	26.46	117.05	2,183.66
Anticipated crop nutrient removal	200.00	37.50	165.00	0.00
Actual crop nutrient removal	314.68	53.59	341.04	1,113.60
Nutrient balance	59.73	-27.13	-223.99	1,070.06
Applied to removed ratio	1.19	0.49	0.34	1.96

Fresh water applied

77,760,000.00 gallons
2,863.64 acre-inches
41.50 inches/acre

Process wastewater applied

4,670,000.00 gallons
171.98 acre-inches
2.49 inches/acre

Total harvests for the crop

1 harvests

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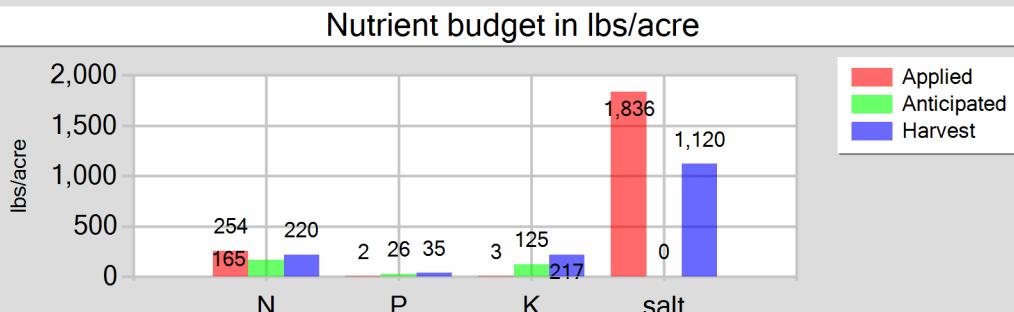
Reporting period 01/01/2023 to 12/31/2023.

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

Field name: Field 14 B

Crop: Wheat, silage, soft dough

Plant date: 11/21/2022



	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	246.48	1.51	2.97	731.89
Fresh water	3.30	0.00	0.00	1,103.72
Atmospheric deposition	4.67	0.00	0.00	0.00
Total nutrients applied	254.45	1.51	2.97	1,835.61
Anticipated crop nutrient removal	165.00	25.50	124.50	0.00
Actual crop nutrient removal	219.52	35.44	216.55	1,119.67
Nutrient balance	34.93	-33.93	-213.58	715.94
Applied to removed ratio	1.16	0.04	0.01	1.64

Fresh water applied
19,500,000.00 gallons
718.12 acre-inches
10.41 inches/acre

Process wastewater applied
493,000.00 gallons
18.16 acre-inches
0.26 inches/acre

Total harvests for the crop
1 harvests

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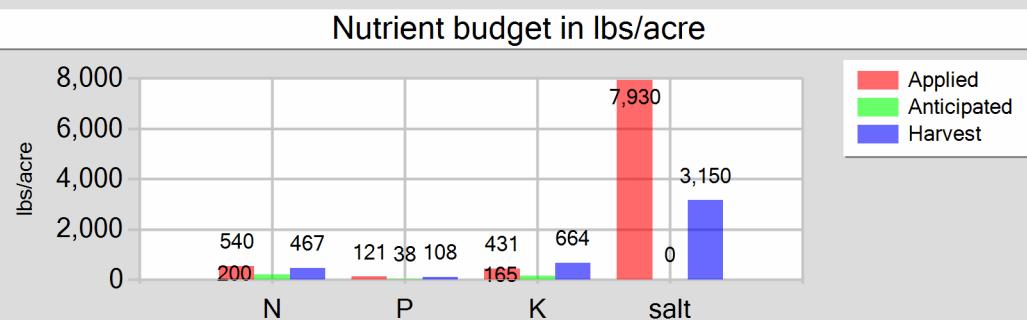
Reporting period 01/01/2023 to 12/31/2023.

Field 14 B - 07/07/2023: Corn, silage

Field name: Field 14 B

Crop: Corn, silage

Plant date: 07/07/2023



	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	0.00	0.00	0.00	0.00
Dry manure	247.11	82.76	258.51	5,833.56
Process wastewater	274.52	38.09	172.41	1,297.03
Fresh water	9.40	0.00	0.00	799.38
Atmospheric deposition	9.33	0.00	0.00	0.00
Total nutrients applied	540.37	120.85	430.93	7,929.97
Anticipated crop nutrient removal	200.00	37.50	165.00	0.00
Actual crop nutrient removal	467.43	108.29	664.36	3,150.16
Nutrient balance	72.93	12.56	-233.43	4,779.81
Applied to removed ratio	1.16	1.12	0.65	2.52

Fresh water applied

77,760,000.00 gallons
2,863.64 acre-inches
41.50 inches/acre

Process wastewater applied

6,480,000.00 gallons
238.64 acre-inches
3.46 inches/acre

Total harvests for the crop

2 harvests

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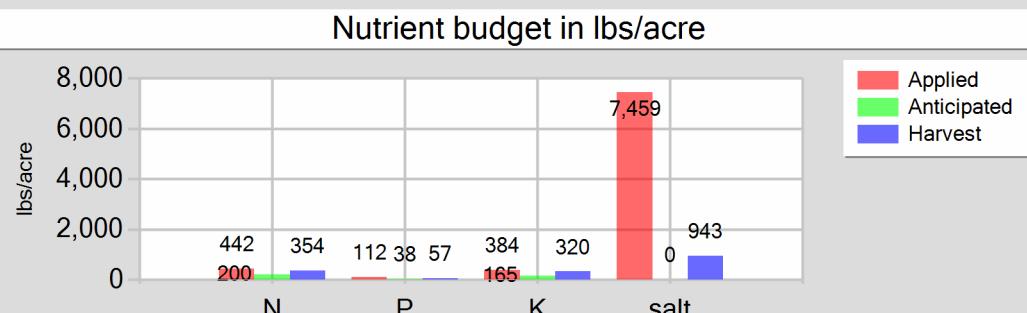
Reporting period 01/01/2023 to 12/31/2023.

Field 16 - 03/16/2023: Corn, silage

Field name: Field 16

Crop: Corn, silage

Plant date: 03/16/2023



	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	247.11	82.76	258.51	5,833.56
Process wastewater	180.38	29.16	125.28	1,012.11
Fresh water	7.21	0.00	0.00	612.86
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	441.70	111.92	383.79	7,458.53
Anticipated crop nutrient removal	200.00	37.50	165.00	0.00
Actual crop nutrient removal	354.22	56.78	320.40	943.40
Nutrient balance	87.48	55.13	63.39	6,515.13
Applied to removed ratio	1.25	1.97	1.20	7.91

Fresh water applied
69,120,000.00 gallons
2,545.45 acre-inches
31.82 inches/acre

Process wastewater applied
4,320,000.00 gallons
159.09 acre-inches
1.99 inches/acre

Total harvests for the crop
1 harvests

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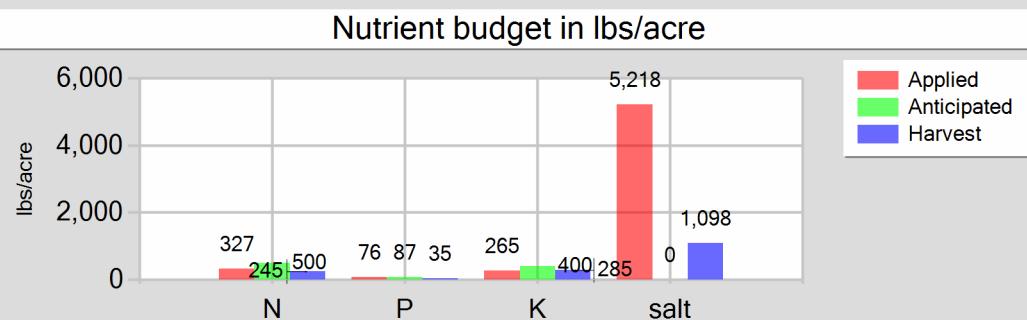
Reporting period 01/01/2023 to 12/31/2023.

Field 16 - 07/26/2023: Sorghum

Field name: Field 16

Crop: Sorghum

Plant date: 07/26/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	164.74	55.17	172.34	3,889.04
Process wastewater	147.99	20.53	92.94	699.18
Fresh water	7.41	0.00	0.00	629.53
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	327.13	75.70	265.29	5,217.75
Anticipated crop nutrient removal	500.00	87.00	400.00	0.00
Actual crop nutrient removal	245.27	35.21	285.12	1,097.71
Nutrient balance	81.85	40.49	-19.83	4,120.03
Applied to removed ratio	1.33	2.15	0.93	4.75

Fresh water applied

71,000,000.00 gallons
2,614.69 acre-inches
32.68 inches/acre

Process wastewater applied

4,050,000.00 gallons
149.15 acre-inches
1.86 inches/acre

Total harvests for the crop

1 harvests

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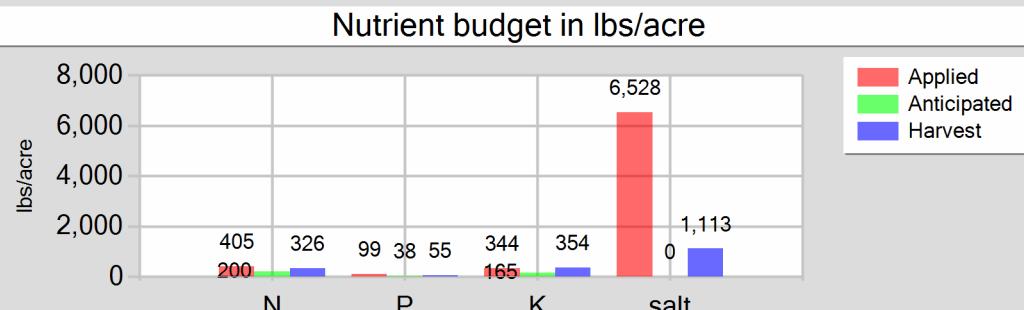
Reporting period 01/01/2023 to 12/31/2023.

Field 17 - 03/17/2023: Corn, silage

Field name: Field 17

Crop: Corn, silage

Plant date: 03/17/2023



	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	205.92	68.97	215.43	4,861.30
Process wastewater	185.01	29.90	128.49	1,038.07
Fresh water	7.39	0.00	0.00	628.57
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	405.32	98.87	343.92	6,527.94
Anticipated crop nutrient removal	200.00	37.50	165.00	0.00
Actual crop nutrient removal	326.31	54.90	353.85	1,112.62
Nutrient balance	79.02	43.97	-9.94	5,415.31
Applied to removed ratio	1.24	1.80	0.97	5.87

Fresh water applied

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

Process wastewater applied

4,320,000.00 gallons
159.09 acre-inches
2.04 inches/acre

Total harvests for the crop

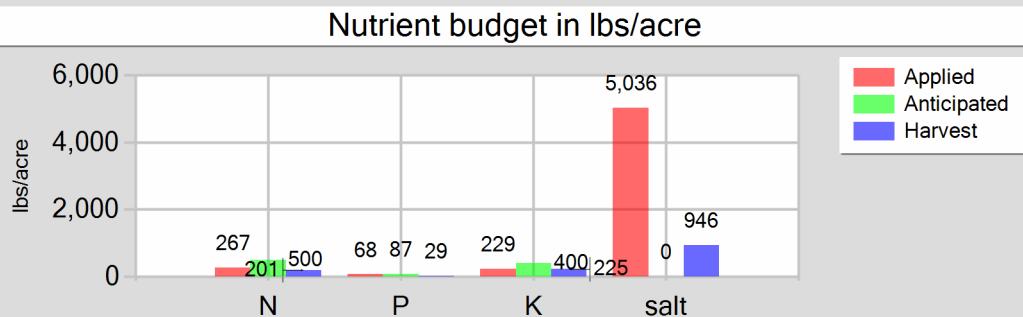
1 harvests

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

Field 17 - 07/27/2023: Sorghum

Field name: Field 17 Crop: Sorghum Plant date: 07/27/2023



	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	0.00	0.00	0.00	0.00
Dry manure	169.49	56.76	177.31	4,001.22
Process wastewater	82.45	11.44	51.78	389.54
Fresh water	7.60	0.00	0.00	645.67
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	266.53	68.20	229.10	5,036.43
Anticipated crop nutrient removal	500.00	87.00	400.00	0.00
Actual crop nutrient removal	200.93	28.85	225.26	945.62
Nutrient balance	65.60	39.35	3.83	4,090.81
Applied to removed ratio	1.33	2.36	1.02	5.33

Fresh water applied

71,000,000.00 gallons
2,614.69 acre-inches
33.52 inches/acre

Process wastewater applied

2,200,000.00 gallons
81.02 acre-inches
1.04 inches/acre

Total harvests for the crop

1 harvests

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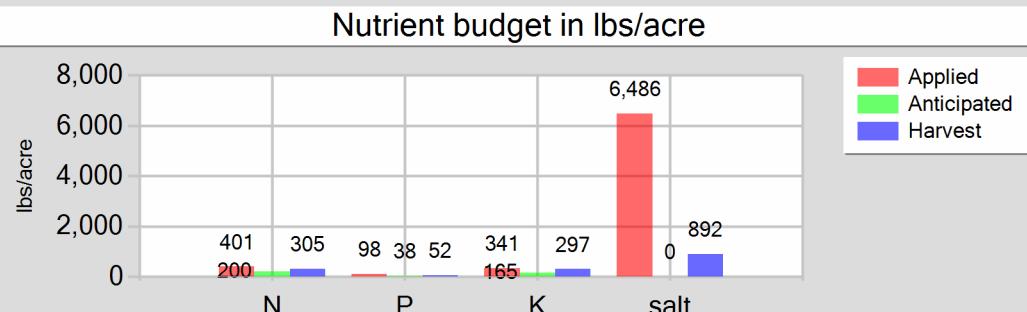
Reporting period 01/01/2023 to 12/31/2023.

Field 18 - 03/18/2023: Corn, silage

Field name: Field 18

Crop: Corn, silage

Plant date: 03/18/2023



	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	205.92	68.97	215.43	4,861.30
Process wastewater	180.38	29.16	125.28	1,012.11
Fresh water	7.21	0.00	0.00	612.86
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	400.51	98.12	340.70	6,486.27
Anticipated crop nutrient removal	200.00	37.50	165.00	0.00
Actual crop nutrient removal	305.03	51.60	297.33	891.99
Nutrient balance	95.49	46.53	43.37	5,594.28
Applied to removed ratio	1.31	1.90	1.15	7.27

Fresh water applied

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

Process wastewater applied

4,320,000.00 gallons
159.09 acre-inches
1.99 inches/acre

Total harvests for the crop

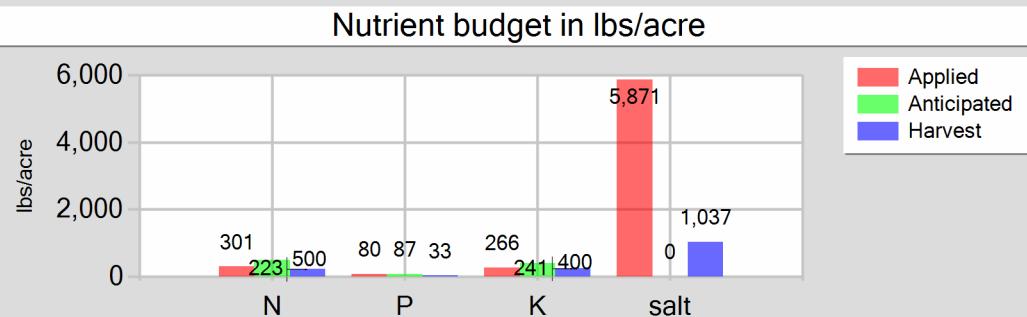
1 harvests

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

Field 18 - 07/30/2023: Sorghum

Field name: Field 18 Crop: Sorghum Plant date: 07/30/2023



	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	0.00	0.00	0.00	0.00
Dry manure	205.92	68.97	215.43	4,861.30
Process wastewater	80.39	11.15	50.49	379.80
Fresh water	7.41	0.00	0.00	629.53
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	300.72	80.12	265.92	5,870.63
Anticipated crop nutrient removal	500.00	87.00	400.00	0.00
Actual crop nutrient removal	223.17	33.19	241.17	1,036.66
Nutrient balance	77.55	46.93	24.75	4,833.97
Applied to removed ratio	1.35	2.41	1.10	5.66

Fresh water applied
71,000,000.00 gallons
2,614.69 acre-inches
32.68 inches/acre

Process wastewater applied
2,200,000.00 gallons
81.02 acre-inches
1.01 inches/acre

Total harvests for the crop
1 harvests

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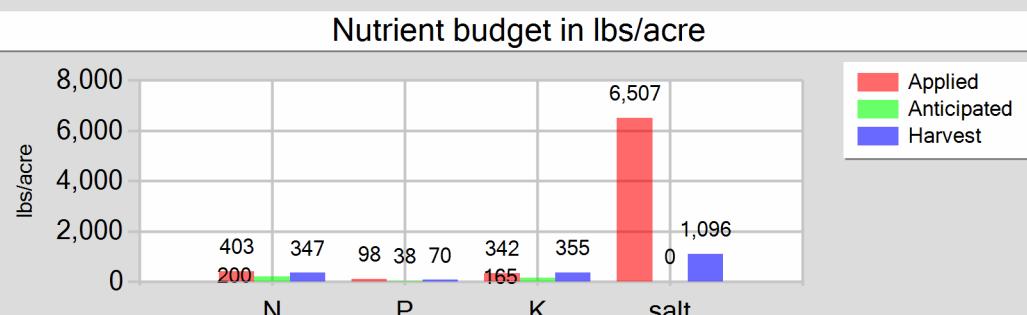
Reporting period 01/01/2023 to 12/31/2023.

Field 19 - 03/19/2023: Corn, silage

Field name: Field 19

Crop: Corn, silage

Plant date: 03/19/2023



	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	205.92	68.97	215.43	4,861.30
Process wastewater	182.67	29.52	126.86	1,024.93
Fresh water	7.30	0.00	0.00	620.61
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	402.89	98.49	342.29	6,506.84
Anticipated crop nutrient removal	200.00	37.50	165.00	0.00
Actual crop nutrient removal	347.24	69.67	354.86	1,096.17
Nutrient balance	55.65	28.82	-12.57	5,410.67
Applied to removed ratio	1.16	1.41	0.96	5.94

Fresh water applied

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

Process wastewater applied

4,320,000.00 gallons
159.09 acre-inches
2.01 inches/acre

Total harvests for the crop

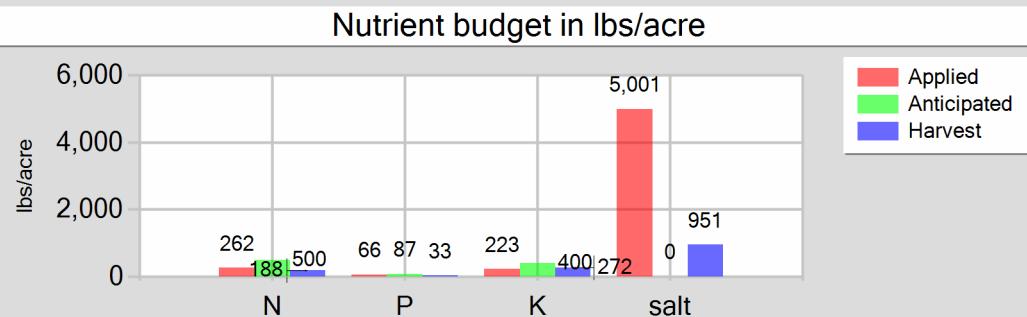
1 harvests

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

Field 19 - 07/28/2023: Sorghum

Field name: Field 19 Crop: Sorghum Plant date: 07/28/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	164.74	55.17	172.34	3,889.04
Process wastewater	81.40	11.29	51.13	384.61
Fresh water	8.56	0.00	0.00	727.28
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	261.70	66.47	223.47	5,000.93
Anticipated crop nutrient removal	500.00	87.00	400.00	0.00
Actual crop nutrient removal	188.13	33.10	271.74	951.40
Nutrient balance	73.57	33.36	-48.27	4,049.53
Applied to removed ratio	1.39	2.01	0.82	5.26

Fresh water applied
81,000,000.00 gallons
2,982.95 acre-inches
37.76 inches/acre

Process wastewater applied
2,200,000.00 gallons
81.02 acre-inches
1.03 inches/acre

Total harvests for the crop
1 harvests

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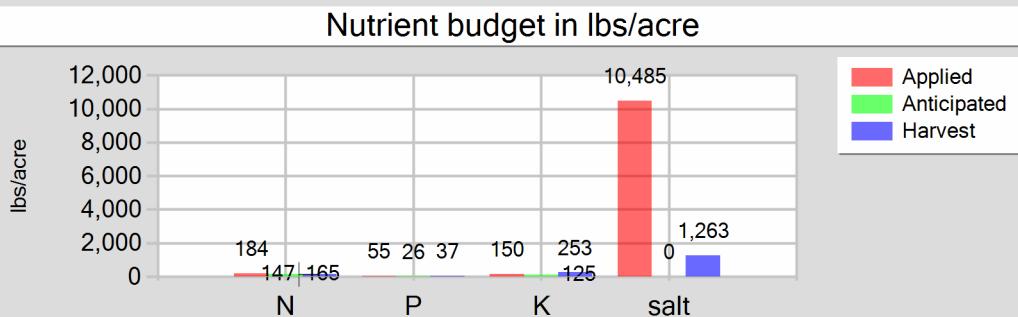
Reporting period 01/01/2023 to 12/31/2023.

Field 2 - 10/17/2022: Wheat, silage, soft dough

Field name: Field 2

Crop: Wheat, silage, soft dough

Plant date: 10/17/2022



	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	117.06	48.21	126.14	9,977.39
Process wastewater	58.01	6.64	23.70	203.13
Fresh water	2.25	0.00	0.00	304.09
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	184.32	54.85	149.84	10,484.61
Anticipated crop nutrient removal	165.00	25.50	124.50	0.00
Actual crop nutrient removal	146.88	36.72	252.65	1,263.24
Nutrient balance	37.44	18.13	-102.81	9,221.37
Applied to removed ratio	1.25	1.49	0.59	8.30

Fresh water applied

19,440,000.00 gallons
715.91 acre-inches
9.30 inches/acre

Process wastewater applied

1,620,000.00 gallons
59.66 acre-inches
0.77 inches/acre

Total harvests for the crop

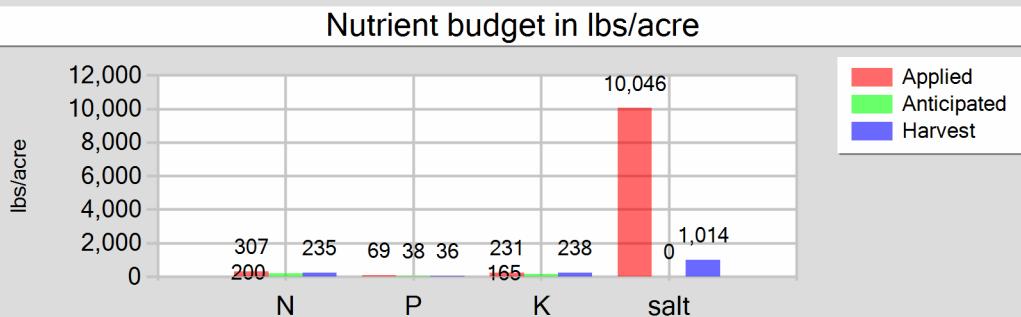
1 harvests

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

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

Field name: Field 2 Crop: Corn, silage Plant date: 06/01/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	97.55	40.18	105.12	8,314.49
Process wastewater	193.28	28.42	126.06	975.47
Fresh water	8.90	0.00	0.00	756.12
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	306.73	68.60	231.17	10,046.08
Anticipated crop nutrient removal	200.00	37.50	165.00	0.00
Actual crop nutrient removal	235.38	36.06	238.28	1,014.30
Nutrient balance	71.35	32.54	-7.11	9,031.78
Applied to removed ratio	1.30	1.90	0.97	9.90

Fresh water applied
82,080,000.00 gallons
3,022.73 acre-inches
39.26 inches/acre

Process wastewater applied
4,860,000.00 gallons
178.98 acre-inches
2.32 inches/acre

Total harvests for the crop
1 harvests

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

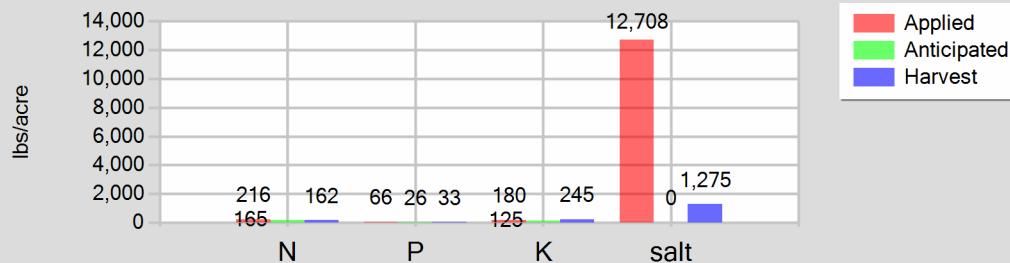
Field 3 - 10/15/2022: Wheat, silage, soft dough

Field name: Field 3

Crop: Wheat, silage, soft dough

Plant date: 10/15/2022

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	142.58	58.72	153.63	12,151.95
Process wastewater	63.63	7.28	26.00	222.81
Fresh water	2.46	0.00	0.00	333.54
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	215.67	66.00	179.63	12,708.30
Anticipated crop nutrient removal	165.00	25.50	124.50	0.00
Actual crop nutrient removal	161.62	33.35	244.70	1,274.73
Nutrient balance	54.05	32.65	-65.08	11,433.57
Applied to removed ratio	1.33	1.98	0.73	9.97

Fresh water applied

21,600,000.00 gallons
795.45 acre-inches
10.20 inches/acre

Process wastewater applied

1,800,000.00 gallons
66.29 acre-inches
0.85 inches/acre

Total harvests for the crop

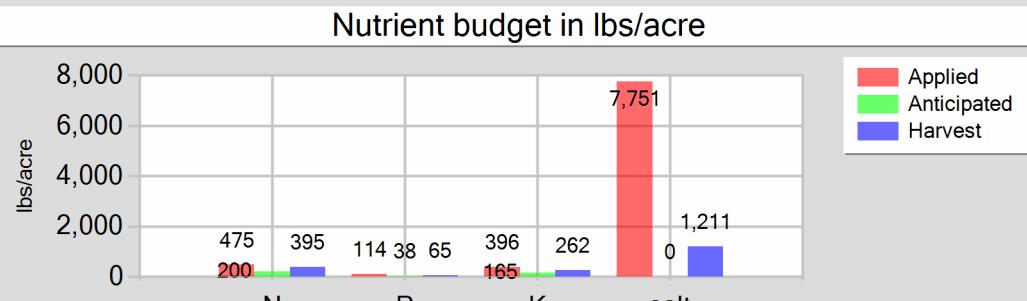
1 harvests

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

Field 3 - 06/02/2023: Corn, silage

Field name: Field 3 Crop: Corn, silage Plant date: 06/02/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	256.61	85.94	268.46	6,057.93
Process wastewater	202.37	28.08	127.10	956.14
Fresh water	8.67	0.00	0.00	736.61
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	474.65	114.02	395.56	7,750.68
Anticipated crop nutrient removal	200.00	37.50	165.00	0.00
Actual crop nutrient removal	394.68	64.97	262.09	1,211.34
Nutrient balance	79.97	49.05	133.47	6,539.34
Applied to removed ratio	1.20	1.75	1.51	6.40

Fresh water applied
81,000,000.00 gallons
2,982.95 acre-inches
38.24 inches/acre

Process wastewater applied
5,400,000.00 gallons
198.86 acre-inches
2.55 inches/acre

Total harvests for the crop
1 harvests

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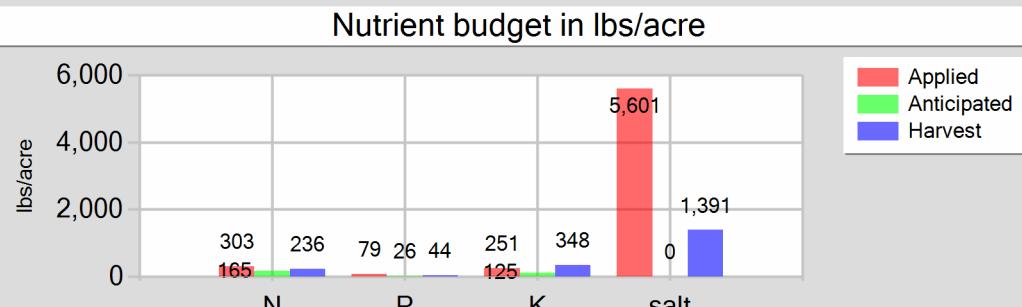
Reporting period 01/01/2023 to 12/31/2023.

Field 30 - 10/22/2022: Wheat, silage, soft dough

Field name: Field 30

Crop: Wheat, silage, soft dough

Plant date: 10/22/2022



	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	205.92	68.97	215.43	4,861.30
Process wastewater	87.07	9.96	35.58	304.90
Fresh water	3.42	0.00	0.00	434.92
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	303.41	78.93	251.00	5,601.12
Anticipated crop nutrient removal	165.00	25.50	124.50	0.00
Actual crop nutrient removal	236.49	43.84	347.76	1,391.04
Nutrient balance	66.92	35.09	-96.76	4,210.08
Applied to removed ratio	1.28	1.80	0.72	4.03

Fresh water applied
34,560,000.00 gallons
1,272.73 acre-inches
11.16 inches/acre

Process wastewater applied
3,600,000.00 gallons
132.58 acre-inches
1.16 inches/acre

Total harvests for the crop
1 harvests

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

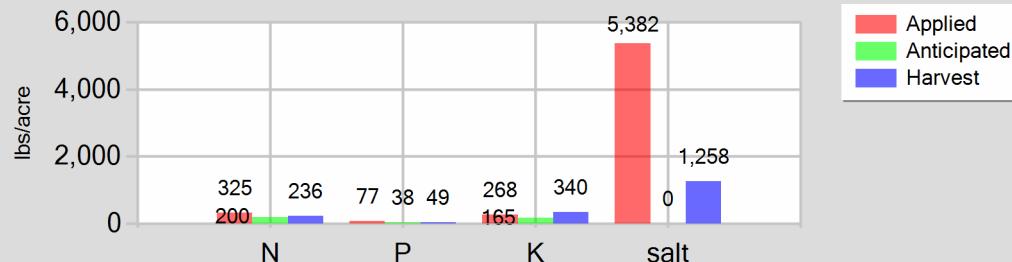
Field 30 - 06/14/2023: Corn, silage

Field name: Field 30

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	0.00	0.00	0.00	0.00
Dry manure	164.74	55.17	172.34	3,889.04
Process wastewater	144.83	21.54	95.17	740.38
Fresh water	8.85	0.00	0.00	752.63
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	325.43	76.72	267.51	5,382.05
Anticipated crop nutrient removal	200.00	37.50	165.00	0.00
Actual crop nutrient removal	235.84	48.55	339.88	1,258.00
Nutrient balance	89.58	28.16	-72.37	4,124.05
Applied to removed ratio	1.38	1.58	0.79	4.28

Fresh water applied

120,960,000.00 gallons
4,454.55 acre-inches
39.07 inches/acre

Process wastewater applied

5,340,000.00 gallons
196.65 acre-inches
1.73 inches/acre

Total harvests for the crop

1 harvests

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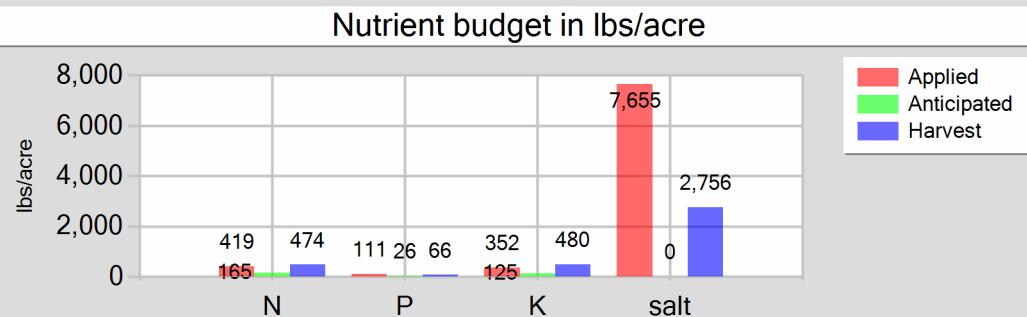
Reporting period 01/01/2023 to 12/31/2023.

Field 31 - 10/21/2022: Wheat, silage, soft dough

Field name: Field 31

Crop: Wheat, silage, soft dough

Plant date: 10/21/2022



	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	288.29	96.55	301.60	6,805.82
Process wastewater	124.07	14.19	50.70	434.48
Fresh water	0.00	0.00	0.00	414.58
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	419.36	110.75	352.30	7,654.88
Anticipated crop nutrient removal	165.00	25.50	124.50	0.00
Actual crop nutrient removal	473.95	66.23	479.86	2,756.20
Nutrient balance	-54.58	44.52	-127.56	4,898.69
Applied to removed ratio	0.88	1.67	0.73	2.78

Fresh water applied

5,760,000.00 gallons
212.12 acre-inches
13.26 inches/acre

Process wastewater applied

720,000.00 gallons
26.52 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.

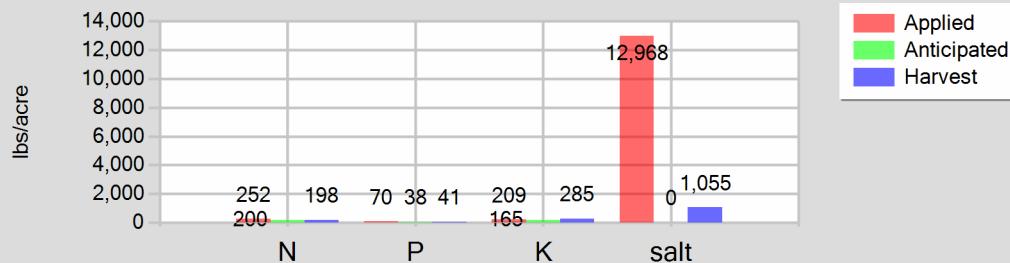
Field 31 - 06/13/2023: Corn, silage

Field name: Field 31

Crop: Corn, silage

Plant date: 06/13/2023

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	136.58	56.25	147.16	11,640.29
Process wastewater	98.66	13.69	61.96	466.12
Fresh water	10.14	0.00	0.00	861.83
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	252.37	69.93	209.12	12,968.24
Anticipated crop nutrient removal	200.00	37.50	165.00	0.00
Actual crop nutrient removal	197.69	40.70	284.90	1,054.50
Nutrient balance	54.68	29.23	-75.78	11,913.74
Applied to removed ratio	1.28	1.72	0.73	12.30

Fresh water applied

19,440,000.00 gallons
715.91 acre-inches
44.74 inches/acre

Process wastewater applied

540,000.00 gallons
19.89 acre-inches
1.24 inches/acre

Total harvests for the crop

1 harvests

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

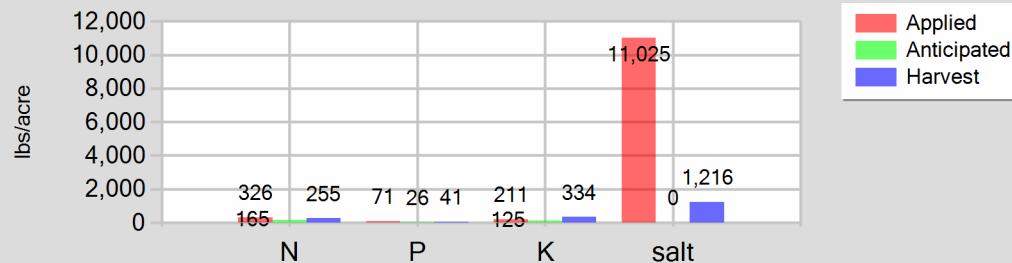
Field 32 - 10/20/2022: Wheat, silage, soft dough

Field name: Field 32

Crop: Wheat, silage, soft dough

Plant date: 10/20/2022

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	31,680,000.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	1,166.67 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	12.41 inches/acre
Dry manure	117.06	48.21	126.14	9,977.39	
Process wastewater	201.55	22.45	84.57	699.72	6,480,000.00 gallons
Fresh water	0.77	0.00	0.00	347.46	238.64 acre-inches
Atmospheric deposition	7.00	0.00	0.00	0.00	2.54 inches/acre
Total nutrients applied	326.38	70.66	210.70	11,024.58	
Anticipated crop nutrient removal	165.00	25.50	124.50	0.00	
Actual crop nutrient removal	255.21	41.46	333.50	1,215.90	
Nutrient balance	71.17	29.21	-122.80	9,808.68	Total harvests for the crop
Applied to removed ratio	1.28	1.70	0.63	9.07	1 harvests

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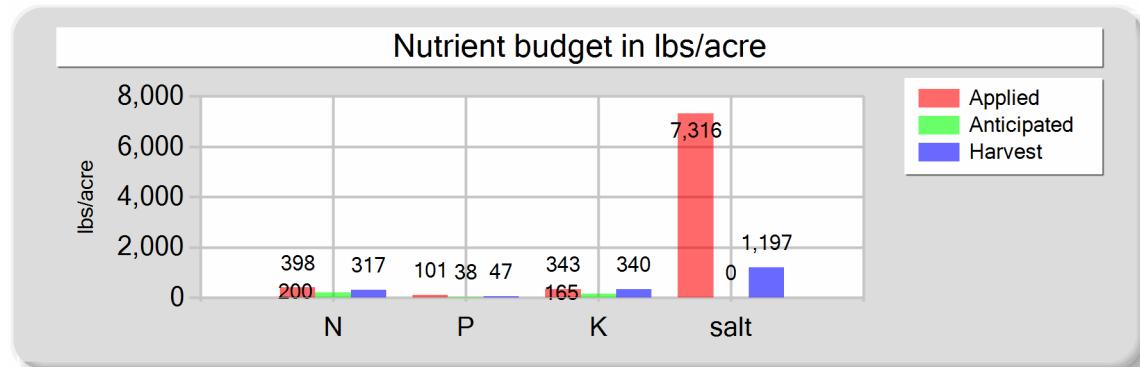
Reporting period 01/01/2023 to 12/31/2023.

Field 32 - 06/15/2023: Corn, silage

Field name: Field 32

Crop: Corn, silage

Plant date: 06/15/2023



	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	112,320,000.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	4,136.36 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	44.00 inches/acre
Dry manure	247.11	82.76	258.51	5,833.56	
Process wastewater	134.34	18.64	84.37	634.72	4,320,000.00 gallons
Fresh water	9.97	0.00	0.00	847.57	159.09 acre-inches
Atmospheric deposition	7.00	0.00	0.00	0.00	1.69 inches/acre
Total nutrients applied	398.42	101.40	342.89	7,315.85	
Anticipated crop nutrient removal	200.00	37.50	165.00	0.00	
Actual crop nutrient removal	316.83	47.48	339.68	1,196.60	
Nutrient balance	81.59	53.92	3.21	6,119.25	
Applied to removed ratio	1.26	2.14	1.01	6.11	
Total harvests for the crop					1 harvests

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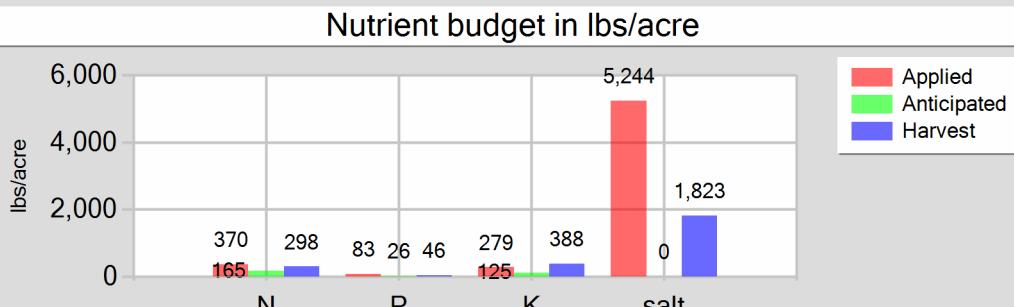
Reporting period 01/01/2023 to 12/31/2023.

Field 33 - 10/26/2022: Wheat, silage, soft dough

Field name: Field 33

Crop: Wheat, silage, soft dough

Plant date: 10/26/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	173.99	58.27	182.02	4,107.53
Process wastewater	181.44	24.59	97.32	806.37
Fresh water	0.81	0.00	0.00	329.72
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	370.25	82.86	279.34	5,243.62
Anticipated crop nutrient removal	165.00	25.50	124.50	0.00
Actual crop nutrient removal	298.43	46.27	387.63	1,823.23
Nutrient balance	71.82	36.59	-108.29	3,420.39
Applied to removed ratio	1.24	1.79	0.72	2.88

Fresh water applied
28,800,000.00 gallons
1,060.61 acre-inches
11.92 inches/acre

Process wastewater applied
5,400,000.00 gallons
198.86 acre-inches
2.23 inches/acre

Total harvests for the crop
1 harvests

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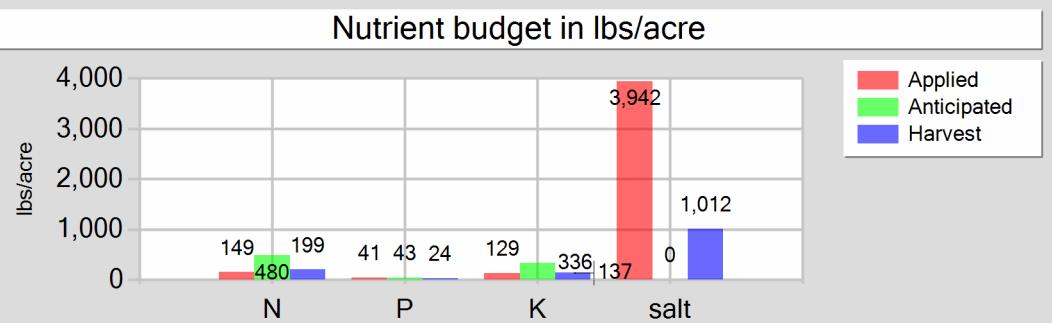
Reporting period 01/01/2023 to 12/31/2023.

Field 34 - 01/01/2023: Alfalfa, hay

Field name: Field 34

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	123.55	41.38	129.26	2,916.78
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	11.35	0.00	0.00	1,025.00
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	148.90	41.38	129.26	3,941.78
Anticipated crop nutrient removal	480.00	43.20	336.00	0.00
Actual crop nutrient removal	198.84	23.71	137.20	1,011.90
Nutrient balance	-49.94	17.67	-7.94	2,929.88
Applied to removed ratio	0.75	1.74	0.94	3.90

Fresh water applied

99,360,000.00 gallons
3,659.09 acre-inches
49.45 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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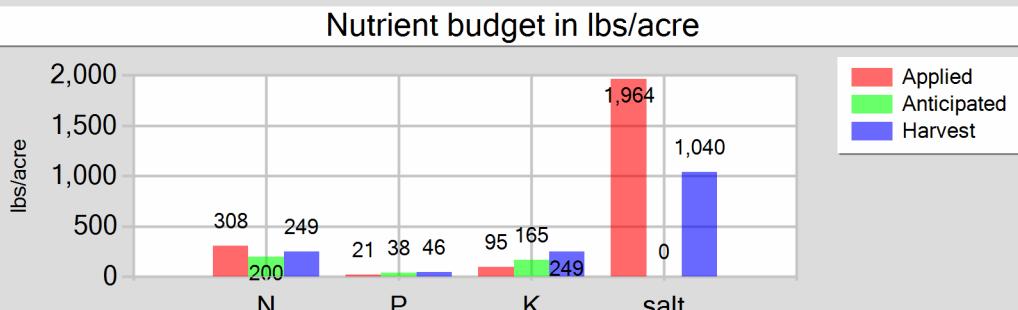
Reporting period 01/01/2023 to 12/31/2023.

Field 35 - 05/29/2023: Corn, silage

Field name: Field 35

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	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	283.82	21.36	94.58	1,102.52
Fresh water	10.14	0.00	0.00	861.83
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	307.96	21.36	94.58	1,964.35
Anticipated crop nutrient removal	200.00	37.50	165.00	0.00
Actual crop nutrient removal	249.10	45.86	248.93	1,040.05
Nutrient balance	58.86	-24.50	-154.35	924.30
Applied to removed ratio	1.24	0.47	0.38	1.89

Fresh water applied

77,760,000.00 gallons
2,863.64 acre-inches
44.74 inches/acre

Process wastewater applied

3,492,000.00 gallons
128.60 acre-inches
2.01 inches/acre

Total harvests for the crop

1 harvests

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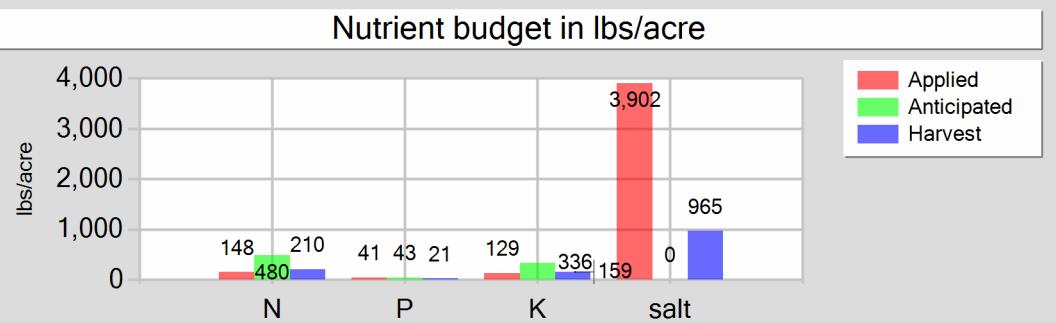
Reporting period 01/01/2023 to 12/31/2023.

Field 36 - 01/01/2023: Alfalfa, hay

Field name: Field 36

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	123.55	41.38	129.26	2,916.78
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	10.91	0.00	0.00	985.07
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	148.46	41.38	129.26	3,901.85
Anticipated crop nutrient removal	480.00	43.20	336.00	0.00
Actual crop nutrient removal	210.37	21.20	159.13	964.61
Nutrient balance	-61.91	20.18	-29.87	2,937.24
Applied to removed ratio	0.71	1.95	0.81	4.05

Fresh water applied

99,360,000.00 gallons
3,659.09 acre-inches
47.52 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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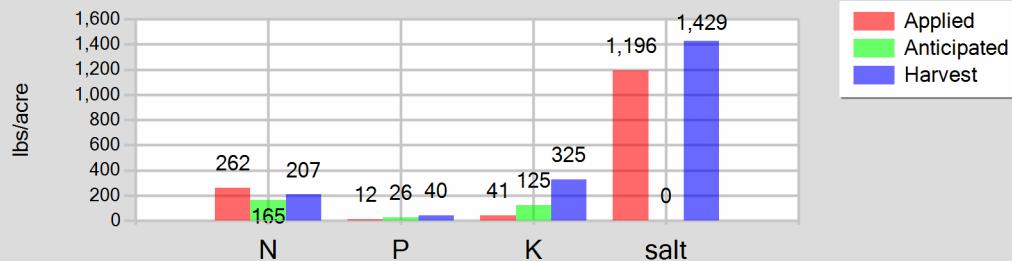
Field 4 - 10/17/2022: Wheat, silage, soft dough

Field name: Field 4

Crop: Wheat, silage, soft dough

Plant date: 10/17/2022

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	251.12	11.87	40.87	796.49
Fresh water	3.89	0.00	0.00	399.50
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	262.01	11.87	40.87	1,195.99
Anticipated crop nutrient removal	165.00	25.50	124.50	0.00
Actual crop nutrient removal	207.01	40.14	325.20	1,428.70
Nutrient balance	54.99	-28.27	-284.33	-232.71
Applied to removed ratio	1.27	0.30	0.13	0.84

Fresh water applied

22,050,000.00 gallons
812.03 acre-inches
10.41 inches/acre

Process wastewater applied

3,052,000.00 gallons
112.39 acre-inches
1.44 inches/acre

Total harvests for the crop

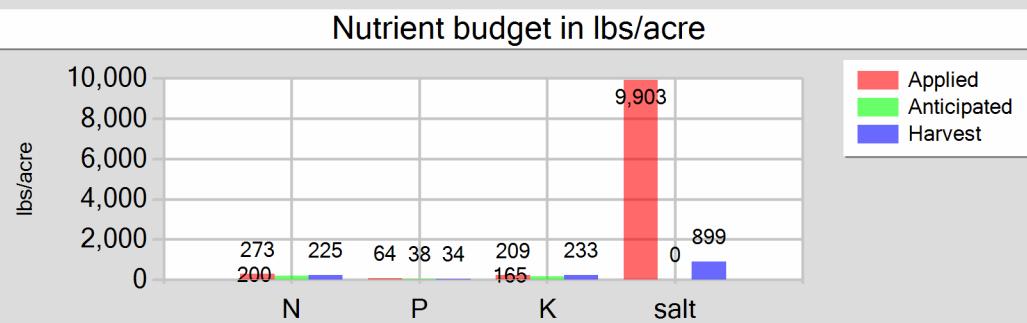
1 harvests

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

Field 4 - 05/30/2023: Corn, silage

Field name: Field 4 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	0.00	0.00	0.00	0.00
Dry manure	97.55	40.18	105.12	8,314.49
Process wastewater	159.00	23.38	103.70	802.47
Fresh water	9.24	0.00	0.00	785.71
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	272.80	63.56	208.82	9,902.67
Anticipated crop nutrient removal	200.00	37.50	165.00	0.00
Actual crop nutrient removal	224.54	33.87	232.73	898.80
Nutrient balance	48.26	29.69	-23.91	9,003.87
Applied to removed ratio	1.21	1.88	0.90	11.02

Fresh water applied
86,400,000.00 gallons
3,181.82 acre-inches
40.79 inches/acre

Process wastewater applied
4,050,000.00 gallons
149.15 acre-inches
1.91 inches/acre

Total harvests for the crop
1 harvests

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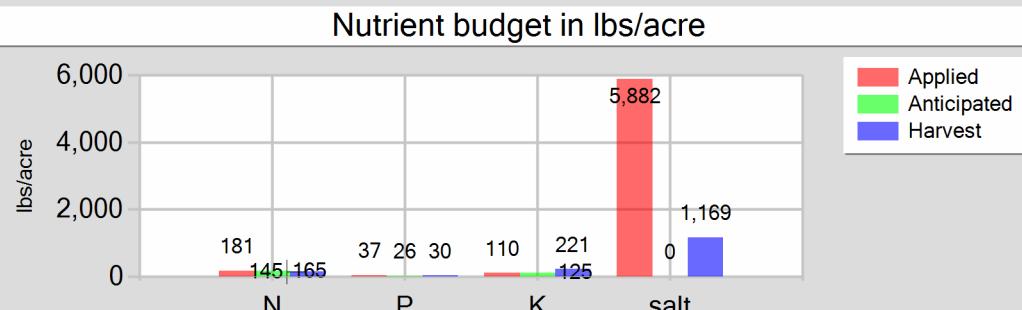
Reporting period 01/01/2023 to 12/31/2023.

Field 5 - 10/17/2022: Wheat, silage, soft dough

Field name: Field 5

Crop: Wheat, silage, soft dough

Plant date: 10/17/2022



	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	58.53	24.11	63.07	4,988.69
Process wastewater	114.53	13.10	46.80	401.06
Fresh water	1.39	0.00	0.00	492.23
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	181.45	37.21	109.87	5,881.98
Anticipated crop nutrient removal	165.00	25.50	124.50	0.00
Actual crop nutrient removal	145.48	30.43	221.13	1,168.83
Nutrient balance	35.97	6.78	-111.26	4,713.15
Applied to removed ratio	1.25	1.22	0.50	5.03

Fresh water applied

58,320,000.00 gallons
2,147.73 acre-inches
13.77 inches/acre

Process wastewater applied

6,480,000.00 gallons
238.64 acre-inches
1.53 inches/acre

Total harvests for the crop

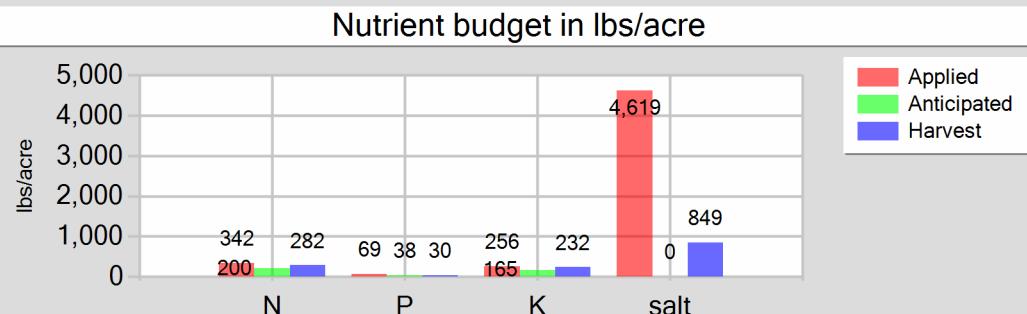
1 harvests

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

Field 5 - 06/15/2023: Corn, silage

Field name: Field 5 Crop: Corn, silage Plant date: 06/15/2023



	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	123.55	41.38	129.26	2,916.78
Process wastewater	202.37	28.08	127.10	956.14
Fresh water	8.78	0.00	0.00	746.43
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	341.71	69.46	256.36	4,619.35
Anticipated crop nutrient removal	200.00	37.50	165.00	0.00
Actual crop nutrient removal	281.53	30.44	232.47	848.70
Nutrient balance	60.18	39.02	23.89	3,770.65
Applied to removed ratio	1.21	2.28	1.10	5.44

Fresh water applied
164,160,000.00 gallons
6,045.45 acre-inches
38.75 inches/acre

Process wastewater applied
10,800,000.00 gallons
397.73 acre-inches
2.55 inches/acre

Total harvests for the crop
1 harvests

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

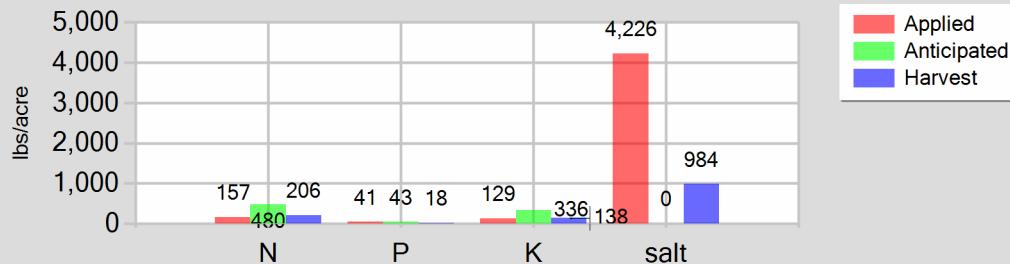
Field 6 - 01/01/2023: Alfalfa, hay

Field name: Field 6

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	123.55	41.38	129.26	2,916.78
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	19.27	0.00	0.00	1,309.14
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	156.82	41.38	129.26	4,225.92
Anticipated crop nutrient removal	480.00	43.20	336.00	0.00
Actual crop nutrient removal	205.73	18.40	138.13	984.03
Nutrient balance	-48.91	22.98	-8.87	3,241.89
Applied to removed ratio	0.76	2.25	0.94	4.29

Fresh water applied

206,280,000.00 gallons
7,596.59 acre-inches
48.70 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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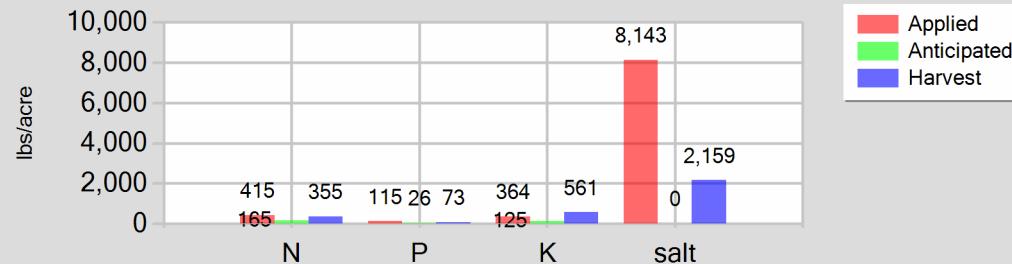
Field 7 - 10/22/2022: Wheat, silage, soft dough

Field name: Field 7

Crop: Wheat, silage, soft dough

Plant date: 10/22/2022

Nutrient budget in lbs/acre



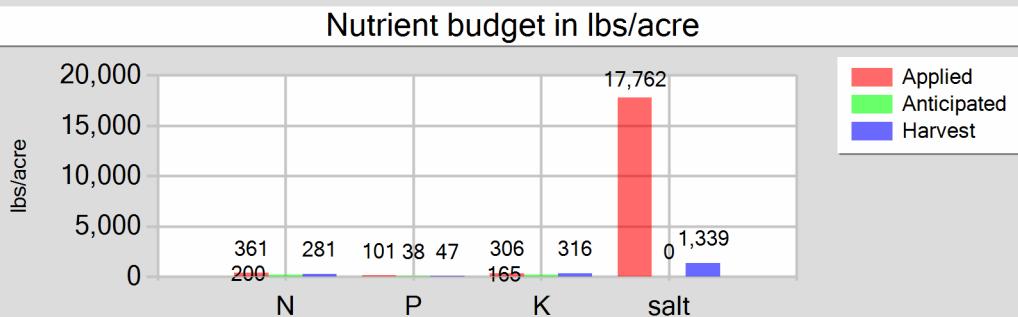
	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	9,360,000.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	344.70 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	11.12 inches/acre
Dry manure	310.88	104.12	325.23	7,338.99	
Process wastewater	96.06	10.99	39.25	336.37	1,080,000.00 gallons
Fresh water	0.58	0.00	0.00	468.07	39.77 acre-inches
Atmospheric deposition	7.00	0.00	0.00	0.00	1.28 inches/acre
Total nutrients applied	414.51	115.11	364.48	8,143.44	
Anticipated crop nutrient removal	165.00	25.50	124.50	0.00	
Actual crop nutrient removal	354.79	72.93	561.25	2,158.66	
Nutrient balance	59.72	42.17	-196.78	5,984.78	
Applied to removed ratio	1.17	1.58	0.65	3.77	
Total harvests for the crop					1 harvests

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Field 7 - 06/03/2023: Corn, silage

Field name: Field 7 Crop: Corn, silage Plant date: 06/03/2023



	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	190.23	78.34	204.97	16,213.26
Process wastewater	155.03	22.80	101.11	782.41
Fresh water	9.01	0.00	0.00	766.07
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	361.27	101.14	306.09	17,761.73
Anticipated crop nutrient removal	200.00	37.50	165.00	0.00
Actual crop nutrient removal	280.67	46.87	316.20	1,339.20
Nutrient balance	80.60	54.27	-10.11	16,422.53
Applied to removed ratio	1.29	2.16	0.97	13.26

Fresh water applied
34,560,000.00 gallons
1,272.73 acre-inches
39.77 inches/acre

Process wastewater applied
1,620,000.00 gallons
59.66 acre-inches
1.86 inches/acre

Total harvests for the crop
1 harvests

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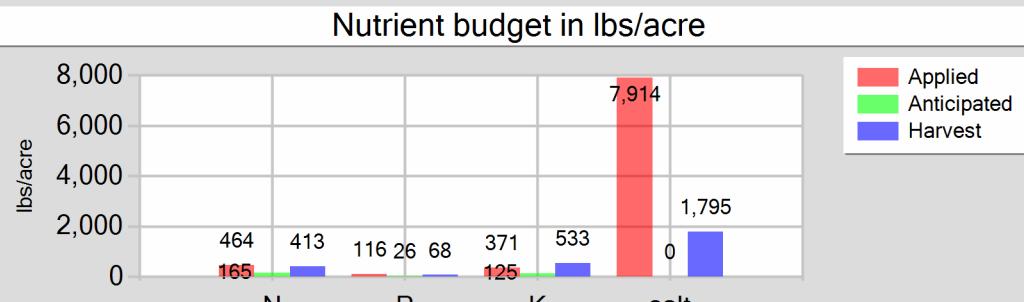
Reporting period 01/01/2023 to 12/31/2023.

Field 8 - 10/22/2022: Wheat, silage, soft dough

Field name: Field 8

Crop: Wheat, silage, soft dough

Plant date: 10/22/2022



	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	288.29	96.55	301.60	6,805.82
Process wastewater	169.19	19.36	69.13	592.48
Fresh water	0.00	0.00	0.00	516.18
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	464.48	115.91	370.73	7,914.47
Anticipated crop nutrient removal	165.00	25.50	124.50	0.00
Actual crop nutrient removal	412.96	68.46	532.66	1,794.84
Nutrient balance	51.52	47.45	-161.93	6,119.63
Applied to removed ratio	1.12	1.69	0.70	4.41

Fresh water applied

12,600,000.00 gallons
464.02 acre-inches
10.55 inches/acre

Process wastewater applied

2,700,000.00 gallons
99.43 acre-inches
2.26 inches/acre

Total harvests for the crop

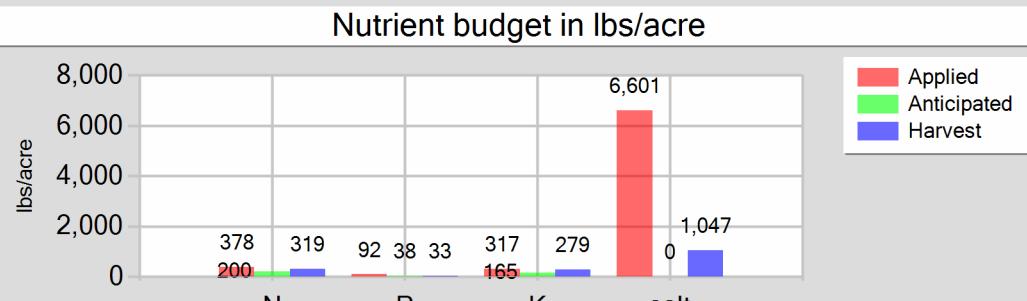
1 harvests

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Field 8 - 06/13/2023: Corn, silage

Field name: Field 8 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	0.00	0.00	0.00	0.00
Dry manure	205.92	68.97	215.43	4,861.30
Process wastewater	153.74	23.21	102.01	799.05
Fresh water	11.06	0.00	0.00	940.18
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	377.73	92.17	317.43	6,600.53
Anticipated crop nutrient removal	200.00	37.50	165.00	0.00
Actual crop nutrient removal	319.34	32.73	278.63	1,047.20
Nutrient balance	58.39	59.45	38.80	5,553.33
Applied to removed ratio	1.18	2.82	1.14	6.30

Fresh water applied
58,320,000.00 gallons
2,147.73 acre-inches
48.81 inches/acre

Process wastewater applied
2,160,000.00 gallons
79.55 acre-inches
1.81 inches/acre

Total harvests for the crop
1 harvests

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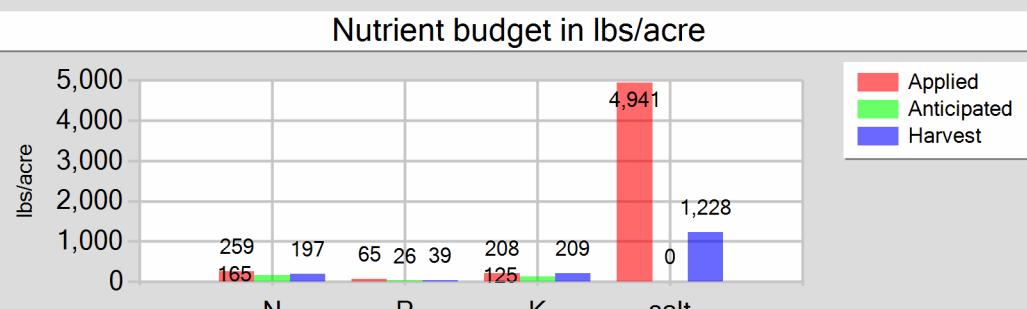
Reporting period 01/01/2023 to 12/31/2023.

Field 9 - 11/05/2022: Wheat, silage, soft dough

Field name: Field 9

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	164.74	55.17	172.34	3,889.04
Process wastewater	87.24	9.98	35.65	305.50
Fresh water	0.00	0.00	0.00	746.36
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	258.98	65.15	207.99	4,940.89
Anticipated crop nutrient removal	165.00	25.50	124.50	0.00
Actual crop nutrient removal	197.01	39.50	209.34	1,228.15
Nutrient balance	61.97	25.66	-1.36	3,712.74
Applied to removed ratio	1.31	1.65	0.99	4.02

Fresh water applied

36,000,000.00 gallons
1,325.76 acre-inches
10.36 inches/acre

Process wastewater applied

4,050,000.00 gallons
149.15 acre-inches
1.17 inches/acre

Total harvests for the crop

1 harvests

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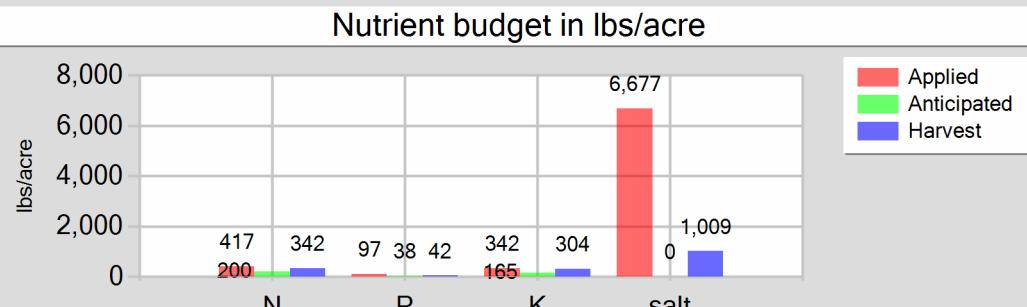
Reporting period 01/01/2023 to 12/31/2023.

Field 9 - 06/16/2023: Corn, silage

Field name: Field 9

Crop: Corn, silage

Plant date: 06/16/2023



	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	205.92	68.97	215.43	4,861.30
Process wastewater	193.78	28.50	126.39	978.01
Fresh water	9.86	0.00	0.00	837.89
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	416.56	97.47	341.82	6,677.20
Anticipated crop nutrient removal	200.00	37.50	165.00	0.00
Actual crop nutrient removal	341.73	41.95	304.44	1,008.90
Nutrient balance	74.83	55.52	37.38	5,668.30
Applied to removed ratio	1.22	2.32	1.12	6.62

Fresh water applied
151,200,000.00 gallons
5,568.18 acre-inches
43.50 inches/acre

Process wastewater applied
8,100,000.00 gallons
298.30 acre-inches
2.33 inches/acre

Total harvests for the crop
1 harvests

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NUTRIENT ANALYSES**A. MANURE ANALYSES****Corral Manure**

Sample and source description: Corral Manure

Sample date: 05/02/2023 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 0.9 %

	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	9,844.00	4,054.00	10,607.00							83.90
DL	500.00	100.00	200.00							0.67

Corral Manure

Sample and source description: Corral Manure

Sample date: 10/13/2023 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 13.5 %

	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	23,806.00	7,973.00	24,905.00							56.20
DL	500.00	100.00	200.00							0.67

B. PROCESS WASTEWATER ANALYSES**Slurry**

Sample and source description: Slurry

Sample date: 03/15/2022 Material type: Process wastewater sludge 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	4,131.00	1,040.00	3.90	2.89	25.30	49.80								19,180.00	12,275
DL	67.00	0.57	0.57	0.04	0.10	0.01								10.00	19

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North Pond 1st Qtr WW

Sample and source description: North Pond 1st Qtr WW

Sample date: 03/07/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 7.70

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	330.00	110.50	0.00	0.40	37.80	135.00								1,808.00	1,157
DL	76.00	2.60	2.60	0.01	0.62	4.30								10.00	19

South Pond 1st Qtr WW

Sample and source description: South Pond 1st Qtr WW

Sample date: 03/07/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 7.32

	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	390.00	124.30	0.00	0.25	41.50	171.00								2,086.00	1,335
DL	76.00	2.60	2.60	0.01	0.62	4.30								10.00	19

North Pond

Sample and source description: North Pond

Sample date: 05/02/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 7.99

	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	589.00	395.10	17.90	0.55	55.10	692.00								6,051.00	3,872
DL	76.00	2.60	2.60	0.01	0.62	4.30								10.00	19

South Pond

Sample and source description: South Pond

Sample date: 05/02/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 7.58

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	400.00	198.50	3.50	0.29	64.70	278.00								3,510.00	2,246
DL	76.00	2.60	2.60	0.01	0.62	4.30								10.00	19

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3rd Qtr WW North Pond

Sample and source description: 3rd Qtr WW North Pond

Sample date: 09/05/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 7.81

	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	479.00	191.00	6.10	0.54	149.90	461.00								4,857.00	3,108
DL	76.00	2.60	2.60	0.01	0.62	4.30								10.00	19

3rd Qtr WW South Pond

Sample and source description: 3rd Qtr WW South Pond

Sample date: 09/05/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 7.45

	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	350.00	110.30	0.00	0.29	48.60	220.00								2,586.00	1,655
DL	76.00	2.60	2.60	0.01	0.62	4.30								10.00	19

4th Qtr WW North Pond

Sample and source description: 4th Qtr WW North Pond

Sample date: 10/13/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 7.82

	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	649.00	271.80	9.20	0.60	80.80	575.00								5,190.00	3,321
DL	76.00	2.60	2.60	0.01	0.62	4.30								10.00	19

4th Qtr WW South Pond

Sample and source description: 4th Qtr WW South Pond

Sample date: 10/13/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 7.34

	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	160.00	140.50	0.00	0.35	53.60	254.00								2,822.00	1,806
DL	76.00	2.60	2.60	0.01	0.62	4.30								10.00	19

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C. FRESH WATER ANALYSES

Buena Vista Canal

Buena Vista Canal

Sample description: Buena Vista Canal

Sample date: 05/02/2023 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	1.00		0.26								92.00	85
DL	1.00		0.23								1.00	5

Dairy Barn N

Dairy Barn N

Sample description: Dairy Barn N

Sample date: 11/20/2023 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								320.00	
DL	0.23		0.23								1.00	

Dairy Barn S

Dairy Barn S

Sample description: Dairy Barn S

Sample date: 11/20/2023 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								310.00	
DL	0.23		0.23								1.00	

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Farmers Canal**Farmers Canal**

Sample description: Farmers Canal

Sample date: 05/02/2023 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	1.00		0.27								89.00	88
DL	1.00		0.23								1.00	5

Stine Canal**Stine Canal**

Sample description: Stine Canal

Sample date: 05/02/2023 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	1.00		0.30								94.00	91
DL	1.00		0.23								1.00	5

Well 10**Well 10**

Sample description: Well 10

Sample date: 11/20/2023 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	1.40		1.40								780.00	
DL	0.23		0.23								1.00	

Well 11

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Well 11**Well 11**Sample description: Well 11Sample date: 11/20/2023 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								520.00	
DL	0.23		0.23								1.00	

Well 13**Well 13**Sample description: Well 13Sample date: 11/20/2023 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								620.00	
DL	0.23		0.23								1.00	

Well 14**Well 14**Sample description: Well 14Sample date: 11/20/2023 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								370.00	
DL	0.23		0.23								1.00	

Well 16

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Well 16**Well 16**

Sample description: Well 16

Sample date: 11/20/2023 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	1.60		1.60								390.00	
DL	0.23		0.23								1.00	

Well 17**Well 17**

Sample description: Well 17

Sample date: 11/20/2023 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								230.00	
DL	0.23		0.23								1.00	

Well 18**Well 18**

Sample description: Well 18

Sample date: 11/20/2023 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	1.30		1.30								390.00	
DL	0.23		0.23								1.00	

Well 2

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Well 2**Well 2**Sample description: Well 2Sample date: 11/30/2023 Source of analysis: Other/estimated

	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	1.10		1.10								290.00	
DL	0.23		0.23								1.00	

Well 3**Well 3**Sample description: Well 3Sample date: 11/30/2023 Source of analysis: Other/estimated

	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	6.70		6.70								570.00	
DL	0.23		0.23								1.00	

Well 4**Well 4**Sample description: Well 4Sample date: 11/30/2023 Source of analysis: Other/estimated

	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								360.00	
DL	0.23		0.23								1.00	

Well 5

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Well 5**Well 5**

Sample description: Well 5

Sample date: 11/20/2023 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	3.40		3.40								700.00	
DL	0.23		0.23								1.00	

Well 6**Well 6**

Sample description: Well 6

Sample date: 11/20/2023 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								530.00	
DL	0.23		0.23								1.00	

Well 7**Well 7**

Sample description: Well 7

Sample date: 11/20/2023 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								500.00	
DL	0.23		0.23								1.00	

Well 8

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Well 8**Well 8**

Sample description: Well 8

Sample date: 11/20/2023 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								480.00	
DL	0.23		0.23								1.00	

Well 9**Well 9**

Sample description: Well 9

Sample date: 11/20/2023 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	1.00		1.00								1,000.00	
DL	0.23		0.23								1.00	

D. SOIL ANALYSES

No soil analyses entered.

E. PLANT TISSUE ANALYSES

Field 1 - 10/14/2022: Wheat, silage, soft dough

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

Field 1 - 10/14/2022: Wheat, silage, soft dough

Field 1

Sample and source description: Field 1

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

Moisture: 69.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	14,090.00	3,130.00	22,000.00		10.50
DL	500.00	100.00	200.00		0.67

Field 1 - 06/10/2023: Corn, silage

Field 1

Sample and source description: Field 1

Sample date: 09/12/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 70.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	18,020.00	2,610.00	17,200.00		6.50
DL	500.00	100.00	200.00		0.67

Field 10 - 11/08/2022: Wheat, silage, soft dough

Field 10

Sample and source description: Field 10

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

Moisture: 62.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	13,462.00	3,440.00	18,500.00		8.50
DL	500.00	100.00	200.00		0.67

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Field 10 - 06/17/2023: Corn, silage

Field 10

Sample and source description: Field 10

Sample date: 09/25/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 61.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	12,817.00	2,590.00	14,400.00		5.60
DL	500.00	100.00	200.00		0.67

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

Field 11

Sample and source description: Field 11

Sample date: 05/27/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 60.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	18,650.00	3,080.00	19,900.00		10.80
DL	500.00	100.00	200.00		0.67

Field 11 - 06/19/2023: Corn, silage

Field 11 10/4/23

Sample and source description: Field 11 10/4/23

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

Moisture: 62.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	19,495.00	2,860.00	17,100.00		5.40
DL	500.00	100.00	200.00		0.67

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Field 12 - 11/16/2022: Wheat, silage, soft dough

Field 12

Sample and source description: Field 12

Sample date: 05/28/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 61.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	14,745.00	3,190.00	22,100.00		11.50
DL	500.00	100.00	200.00		0.67

Field 12 - 06/23/2023: Corn, silage

Field 12

Sample and source description: Field 12

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

Moisture: 74.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	24,550.00	3,160.00	22,200.00		7.20
DL	500.00	100.00	200.00		0.67

Field 13 - 11/18/2022: Wheat, silage, soft dough

Field 13

Sample and source description: Field 13

Sample date: 05/28/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 74.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	14,745.00	3,190.00	22,100.00		11.50
DL	500.00	100.00	200.00		0.67

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Field 13 - 06/26/2023: Corn, silage

Field 13

Sample and source description: Field 13

Sample date: 10/06/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 76.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	33,300.00	3,730.00	29,300.00		8.90
DL	500.00	100.00	200.00		0.67

Field 14 A - 11/19/2022: Wheat, silage, soft dough

Field 14A

Sample and source description: Field 14A

Sample date: 05/22/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 62.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	11,639.00	3,070.00	16,700.00		8.60
DL	500.00	100.00	200.00		0.67

Field 14 A - 07/04/2023: Corn, silage

Field 14A 10/5/23

Sample and source description: Field 14A 10/5/23

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

Moisture: 65.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	18,085.00	3,080.00	19,600.00		6.40
DL	500.00	100.00	200.00		0.67

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

Field 14B

Sample and source description: Field 14B

Sample date: 05/22/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 62.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	17,841.00	2,880.00	17,600.00		9.10
DL	500.00	100.00	200.00		0.67

Field 14 B - 07/07/2023: Corn, silage

Field 14B

Sample and source description: Field 14B

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

Moisture: 77.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	19,830.00	3,920.00	27,900.00		12.00
DL	500.00	100.00	200.00		0.67

Field 16 - 03/16/2023: Corn, silage

Field 16

Sample and source description: Field 16

Sample date: 07/24/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 64.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	19,900.00	3,190.00	18,000.00		5.30
DL	500.00	100.00	200.00		0.67

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Field 16 - 07/26/2023: Sorghum

Field 16

Sample and source description: Field 16

Sample date: 11/01/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 67.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	34,410.00	4,940.00	40,000.00		15.40
DL	500.00	100.00	200.00		0.67

Field 17 - 03/17/2023: Corn, silage

Field 17

Sample and source description: Field 17

Sample date: 07/24/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 65.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	17,890.00	3,010.00	19,400.00		6.10
DL	500.00	100.00	200.00		0.67

Field 17 - 07/27/2023: Sorghum

Field 17

Sample and source description: Field 17

Sample date: 11/01/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 71.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	33,360.00	4,790.00	37,400.00		15.70
DL	500.00	100.00	200.00		0.67

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Field 18 - 03/18/2023: Corn, silage

Field 18

Sample and source description: Field 18

Sample date: 07/25/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 68.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	17,440.00	2,950.00	17,000.00		5.10
DL	500.00	100.00	200.00		0.67

Field 18 - 07/30/2023: Sorghum

Field 18

Sample and source description: Field 18

Sample date: 11/01/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 68.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	31,000.00	4,610.00	33,500.00		14.40
DL	500.00	100.00	200.00		0.67

Field 19 - 03/19/2023: Corn, silage

Field 19

Sample and source description: Field 19

Sample date: 07/25/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 69.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	18,690.00	3,750.00	19,100.00		5.90
DL	500.00	100.00	200.00		0.67

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Field 19 - 07/28/2023: Sorghum

Field 19

Sample and source description: Field 19

Sample date: 11/01/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 71.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	28,870.00	5,080.00	41,700.00		14.60
DL	500.00	100.00	200.00		0.67

Field 2 - 10/17/2022: Wheat, silage, soft dough

Field 2

Sample and source description: Field 2

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

Moisture: 67.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	13,720.00	3,430.00	23,600.00		11.80
DL	500.00	100.00	200.00		0.67

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

Field 2

Sample and source description: Field 2

Sample date: 09/12/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 67.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	14,620.00	2,240.00	14,800.00		6.30
DL	500.00	100.00	200.00		0.67

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Field 3 - 10/15/2022: Wheat, silage, soft dough

Field 3

Sample and source description: Field 3

Sample date: 05/16/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 67.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	14,200.00	2,930.00	21,500.00		11.20
DL	500.00	100.00	200.00		0.67

Field 3 - 06/02/2023: Corn, silage

Field 3

Sample and source description: Field 3

Sample date: 09/13/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 58.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	17,920.00	2,950.00	11,900.00		5.50
DL	500.00	100.00	200.00		0.67

Field 30 - 10/22/2022: Wheat, silage, soft dough

Field 30

Sample and source description: Field 30

Sample date: 05/24/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 58.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	19,041.00	3,530.00	28,000.00		11.20
DL	500.00	100.00	200.00		0.67

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Field 30 - 06/14/2023: Corn, silage

Field 30

Sample and source description: Field 30

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

Moisture: 63.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	10,686.00	2,200.00	15,400.00		5.70
DL	500.00	100.00	200.00		0.67

Field 31 - 10/21/2022: Wheat, silage, soft dough

Field 31

Sample and source description: Field 31

Sample date: 05/24/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 45.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	23,902.00	3,340.00	24,200.00		13.90
DL	500.00	100.00	200.00		0.67

Field 31 - 06/13/2023: Corn, silage

Field 31

Sample and source description: Field 31

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

Moisture: 63.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	10,686.00	2,200.00	15,400.00		5.70
DL	500.00	100.00	200.00		0.67

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Field 32 - 10/20/2022: Wheat, silage, soft dough

Field 32

Sample and source description: Field 32

Sample date: 05/26/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 61.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	22,039.00	3,580.00	28,800.00		10.50
DL	500.00	100.00	200.00		0.67

Field 32 - 06/15/2023: Corn, silage

Field 32

Sample and source description: Field 32

Sample date: 09/23/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 61.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	16,416.00	2,460.00	17,600.00		6.20
DL	500.00	100.00	200.00		0.67

Field 33 - 10/26/2022: Wheat, silage, soft dough

Field 33

Sample and source description: Field 33

Sample date: 05/26/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 58.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	19,478.00	3,020.00	25,300.00		11.90
DL	500.00	100.00	200.00		0.67

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Field 34 - 01/01/2023: Alfalfa, hay

Field 34

Sample and source description: Field 34

Sample date: 06/15/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 61.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	32,030.00	3,820.00	22,100.00		16.30
DL	500.00	100.00	200.00		0.67

Field 35 - 05/29/2023: Corn, silage

Field 35

Sample and source description: Field 35

Sample date: 09/12/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 65.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	14,610.00	2,690.00	14,600.00		6.10
DL	500.00	100.00	200.00		0.67

Field 36 - 01/01/2023: Alfalfa, hay

Field 36

Sample and source description: Field 36

Sample date: 06/15/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 61.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	34,240.00	3,450.00	25,900.00		15.70
DL	500.00	100.00	200.00		0.67

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

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

Field 4 - 10/17/2022: Wheat, silage, soft dough

Field 4

Sample and source description: Field 4

Sample date: 05/16/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 66.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	15,214.00	2,950.00	23,900.00		10.50
DL	500.00	100.00	200.00		0.67

Field 4 - 05/30/2023: Corn, silage

Field 4

Sample and source description: Field 4

Sample date: 09/13/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 67.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	13,990.00	2,110.00	14,500.00		5.60
DL	500.00	100.00	200.00		0.67

Field 5 - 10/17/2022: Wheat, silage, soft dough

Field 5

Sample and source description: Field 5

Sample date: 05/16/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 64.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	13,816.00	2,890.00	21,000.00		11.10
DL	500.00	100.00	200.00		0.67

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

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

Field 5 - 06/15/2023: Corn, silage

Field 5

Sample and source description: Field 5

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

Moisture: 63.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	15,259.00	1,650.00	12,600.00		4.60
DL	500.00	100.00	200.00		0.67

Field 6 - 01/01/2023: Alfalfa, hay

Field 6

Sample and source description: Field 6

Sample date: 06/15/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 61.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	33,660.00	3,010.00	22,600.00		16.10
DL	500.00	100.00	200.00		0.67

Field 7 - 10/22/2022: Wheat, silage, soft dough

Field 7

Sample and source description: Field 7

Sample date: 05/17/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 57.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	23,010.00	4,730.00	36,400.00		14.00
DL	500.00	100.00	200.00		0.67

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

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

Field 7 - 06/03/2023: Corn, silage

Field 7

Sample and source description: Field 7

Sample date: 09/13/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 62.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	15,090.00	2,520.00	17,000.00		7.20
DL	500.00	100.00	200.00		0.67

Field 8 - 10/22/2022: Wheat, silage, soft dough

Field 8

Sample and source description: Field 8

Sample date: 05/17/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 58.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	28,530.00	4,730.00	36,800.00		12.40
DL	500.00	100.00	200.00		0.67

Field 8 - 06/13/2023: Corn, silage

Field 8

Sample and source description: Field 8

Sample date: 09/25/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 62.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	17,077.00	1,750.00	14,900.00		5.60
DL	500.00	100.00	200.00		0.67

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

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

Field 9 - 11/05/2022: Wheat, silage, soft dough

Field 9

Sample and source description: Field 9

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

Moisture: 61.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	14,116.00	2,830.00	15,000.00		8.80
DL	500.00	100.00	200.00		0.67

Field 9 - 06/16/2023: Corn, silage

Field 9 10/4/23

Sample and source description: Field 9 10/4/23

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

Moisture: 64.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	19,307.00	2,370.00	17,200.00		5.70
DL	500.00	100.00	200.00		0.67

F. SUBSURFACE (TILE) DRAINAGE ANALYSES

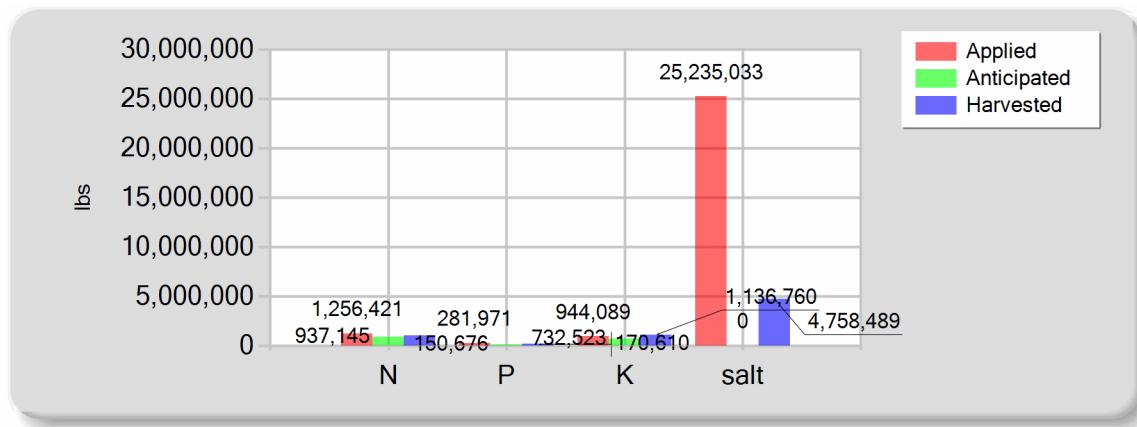
No subsurface (tile) drainage analyses entered.

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

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

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

	Total N (lbs)	Total P (lbs)	Total K (lbs)	Total salt (lbs)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	602,742.12	208,627.72	633,322.66	19,645,577.75
Process wastewater	594,533.24	73,342.79	310,766.12	2,625,626.53
Fresh water	27,540.56	0.00	0.00	2,963,828.39
Atmospheric deposition	31,605.00	0.00	0.00	0.00
Total nutrients applied	1,256,420.92	281,970.51	944,088.78	25,235,032.67
Anticipated crop nutrient removal	937,145.00	150,675.90	732,522.50	0.00
Actual crop nutrient removal	1,033,922.57	170,609.74	1,136,759.60	4,758,488.72
Nutrient balance	222,498.35	111,360.77	-192,670.82	20,476,543.95
Applied to removed ratio	1.22	1.65	0.83	5.30

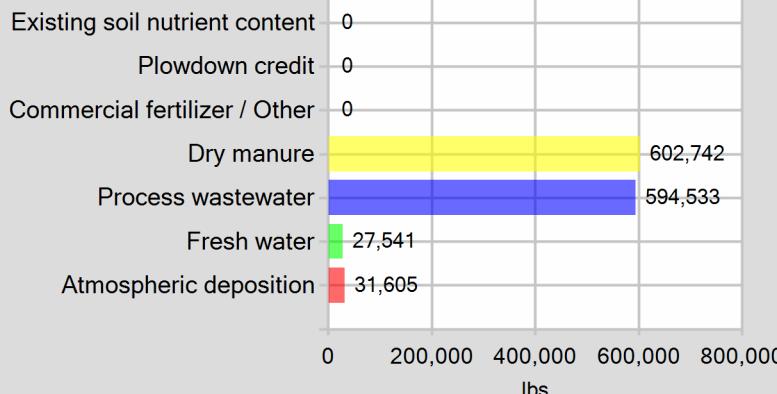
B. POUNDS OF NUTRIENT APPLIED VS. CROP REMOVAL

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

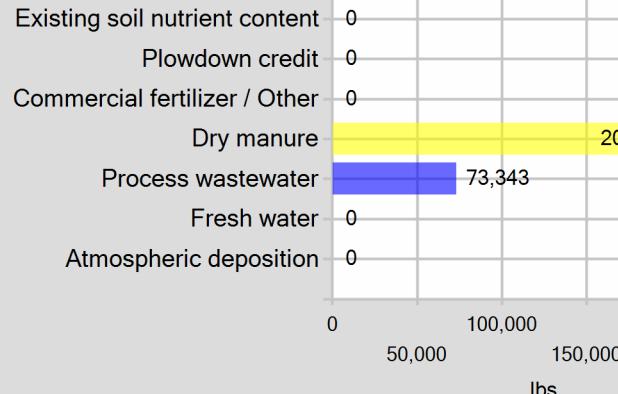
Reporting period 01/01/2023 to 12/31/2023.

C. POUNDS OF NUTRIENT APPLIED BY MATERIAL TYPE

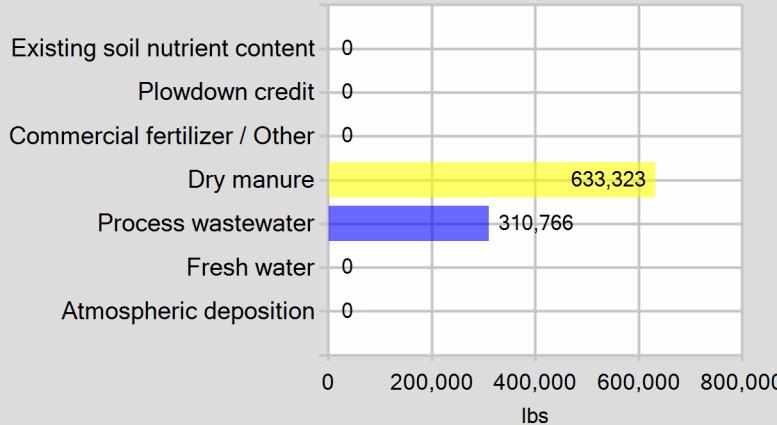
Pounds of nitrogen applied



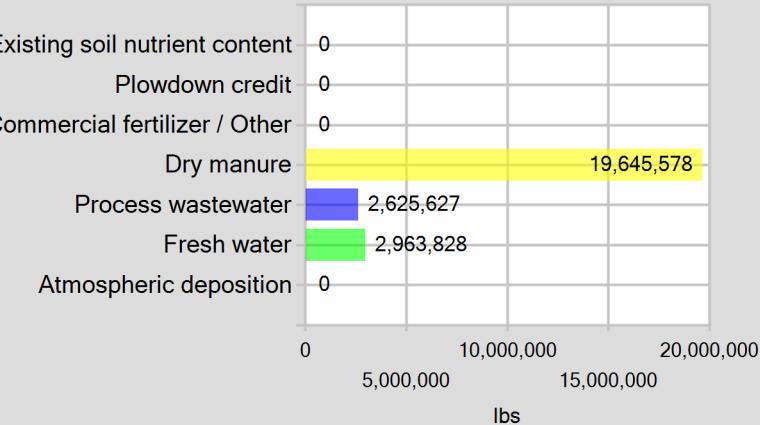
Pounds of phosphorus applied



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

1st half manure sample had an unrealistic moisture number, will use 2nd half manure most of time.

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

CERTIFICATION

A. OWNER AND/OR OPERATOR CERTIFICATION

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



SIGNATURE OF OWNER OF FACILITY

George Borba

PRINT OR TYPE NAME



SIGNATURE OF OPERATOR OF FACILITY

SAME AS OWNER

PRINT OR TYPE NAME

DATE

DATE

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

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

ATTACHMENTS

A. REQUIRED ATTACHMENTS

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

Annual Dairy Facility Assessment

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

Manure/Process Wastewater Tracking Manifests

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

Corrective Actions Documents

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

Groundwater Monitoring

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

Storm Water Monitoring

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



JMLORD, INC.

4184 N. KNOLL DRIVE FRESNO, CA 93722
PHONE: (559) 268-9755 FAX: (559) 486-6504
WWW.JMLORDINC.COM

FRESH WATER SAMPLING RECORD

For any fresh water source, such as domestic wells, irrigation wells or canal water used for irrigation.
Refer to the Sampling and Analysis Plan for details of how the sample should be collected.

Facility: Belonave Ranch LLC

Date: 5/2/23

Source ID: Buena Vista Canal

Time: 12:00

Source Location:

NW side of dairy

Sample Properties at Time of Sampling

Sample Type: Groundwater Well Surface Water

EC: Measured in laboratory.
 Field measurement.

EC _____ (μ S or mS)

Circle the correct units for EC.

Ammonium: Field measurement. Present Absent
 Not Applicable.

Notes: Took from Canal. Sample clear + no smell.

Sample should be delivered to an ELAP Certified Laboratory for testing within 48 hours of collection.
Field testing for ammonium is only required for groundwater wells. If ammonium is present, sample must
also be analyzed for ammonium in the ELAP laboratory.

Sampler Signature: MB Leppen



JMLORD, INC.

4184 N. KNOLL DRIVE FRESNO, CA 93722
PHONE: (559) 268-9755 FAX: (559) 486-6504
WWW.JMLORDINC.COM

FRESH WATER SAMPLING RECORD

For any fresh water source, such as domestic wells, irrigation wells or canal water used for irrigation.
Refer to the Sampling and Analysis Plan for details of how the sample should be collected.

Facility: Belonave Ranch LLC

Date: 5/2/23

Source ID: Farmers Canal

Time: 12:20

Source Location:

SE side of dairy

Sample Properties at Time of Sampling

Sample Type: Groundwater Well Surface Water

EC: Measured in laboratory.
 Field measurement.

EC _____ (μS or mS)

Circle the correct units for EC.

Ammonium: Field measurement. Present Absent
 Not Applicable.

Notes: Took from Canal. Sample clear + no smell.

Sample should be delivered to an ELAP Certified Laboratory for testing within 48 hours of collection.
Field testing for ammonium is only required for groundwater wells. If ammonium is present, sample must
also be analyzed for ammonium in the ELAP laboratory.

Sampler Signature:

M. Blodgett



JMLORD, INC.

4184 N. KNOLL DRIVE FRESNO, CA 93722
PHONE: (559) 268-9755 FAX: (559) 486-6504
WWW.JMLORDINC.COM

FRESH WATER SAMPLING RECORD

For any fresh water source, such as domestic wells, irrigation wells or canal water used for irrigation.
Refer to the Sampling and Analysis Plan for details of how the sample should be collected.

Facility: Belonave Ranch LLC

Date: 5/2/23

Source ID: Stine Canal

Time: 12:15

Source Location:

SE side of dairy

Sample Properties at Time of Sampling

Sample Type: Groundwater Well Surface Water

EC: Measured in laboratory.
 Field measurement.

EC _____ (μ S or mS)

Circle the correct units for EC.

Ammonium: Field measurement. Present Absent
 Not Applicable.

Notes: Took from canal. Sample clear + no smell.

Sample should be delivered to an ELAP Certified Laboratory for testing within 48 hours of collection.
Field testing for ammonium is only required for groundwater wells. If ammonium is present, sample must also be analyzed for ammonium in the ELAP laboratory.

Sampler Signature:



BSK Associates Laboratory Fresno
687 N. Laverne Avenue
Fresno, CA 93727
559-497-2888 (Main)

AGE0268

5/16/2023

Invoice: AG11045

George Borba
Belonave Ranch LLC
14461 Taft Highway
Bakersfield, CA 93311

RE: Report for AGE0268 RB5 Surface

Dear George Borba,

Thank you for using BSK Associates for your analytical testing needs. In the following pages, you will find the test results for the samples submitted to our laboratory on 5/2/2023. The results have been approved for release by our Laboratory Director as indicated by the authorizing signature below.

The samples were analyzed for the test(s) indicated on the Chain of Custody (see attached) and the results relate only to the samples analyzed. BSK certifies that the testing was performed in accordance with the quality system requirements specified in the 2016 TNI Standard. Any deviations from this standard or from the method requirements for each test procedure performed will be annotated alongside the analytical result or noted in the Case Narrative. Unless otherwise noted, the sample results are reported on an "as received" basis.

This certificate of analysis shall not be reproduced except in full, without written approval of the laboratory.

If additional clarification of any information is required, please contact your Project Manager, Michelle Croft , at 559-497-2888.

Thank you again for using BSK Associates. We value your business and appreciate your loyalty.

Sincerely,

Michelle Croft, Project Manager



Accredited in Accordance with NELAP
ORELAP #4021

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

AGE0268 FINAL 05162023 1322



AGE0268

RB5 Surface

Case Narrative

Project and Report Details		Invoice Details
Client:	Belonave Ranch LLC	Invoice To: Belonave Ranch LLC
Report To:	George Borba	Invoice Attn: George Borba
Project #:	RB5 Surface	Project PO#: -
Received:	5/02/2023 - 15:55	
Report Due:	5/16/2023	

Sample Receipt Conditions

Cooler: Default Cooler

Temperature on Receipt °C: 20.8

Containers Intact

COC/Labels Agree

Received On Blue Ice

Sample(s) arrived at lab on same day sampled.

Sample(s) were received in temperature range.

Initial receipt at BSK-FAL

Data Qualifiers

The following qualifiers have been applied to one or more analytical results:

MS1.0 Matrix spike recoveries exceed control limits.

Report Distribution

Recipient(s)	Report Format	CC:
George Borba	FINAL.RPT	
Madison Looper	FINAL.RPT	



AGE0268

RB5 Surface

RB5 Surface

Certificate of Analysis

Sample ID: AGE0268-01

Sampled By: Madison Looper

Sample Description: Buena Vista Canal

Sample Date - Time: 05/02/2023 - 12:00

Matrix: Surface Water

Sample Type: Grab

BSK Associates Laboratory Fresno General Chemistry

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Conductivity @ 25C	SM 2510B	92	1.0	umhos/cm	1	AGE0419	05/05/23	05/05/23	
Nitrate as N	EPA 300.0	0.26	0.23	mg/L	1	AGE0196	05/03/23 05:57	05/03/23	
Nitrite as N	EPA 300.0	ND	0.050	mg/L	1	AGE0196	05/03/23 05:57	05/03/23	
Total Dissolved Solids	SM 2540C	85	5.0	mg/L	1	AGE0229	05/03/23	05/03/23	
Total Kjeldahl Nitrogen	EPA 351.2	ND	1.0	mg/L	1	AGE0512	05/08/23	05/11/23	
Total Nitrogen, IC	CALC	ND	1.0	mg/L					



AGE0268

RB5 Surface

RB5 Surface

Certificate of Analysis

Sample ID: AGE0268-02

Sampled By: Madison Looper

Sample Description: Stine Canal

Sample Date - Time: 05/02/2023 - 12:15

Matrix: Surface Water

Sample Type: Grab

BSK Associates Laboratory Fresno
General Chemistry

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Conductivity @ 25C	SM 2510B	94	1.0	umhos/cm	1	AGE0419	05/05/23	05/05/23	
Nitrate as N	EPA 300.0	0.30	0.23	mg/L	1	AGE0196	05/03/23 05:15	05/03/23	
Nitrite as N	EPA 300.0	ND	0.050	mg/L	1	AGE0196	05/03/23 05:15	05/03/23	
Total Dissolved Solids	SM 2540C	91	5.0	mg/L	1	AGE0229	05/03/23	05/03/23	
Total Kjeldahl Nitrogen	EPA 351.2	ND	1.0	mg/L	1	AGE0512	05/08/23	05/11/23	
Total Nitrogen, IC	CALC	ND	1.0	mg/L					



AGE0268

RB5 Surface

RB5 Surface

Certificate of Analysis

Sample ID: AGE0268-03

Sampled By: Madison Looper

Sample Description: Farmers Canal

Sample Date - Time: 05/02/2023 - 12:20

Matrix: Surface Water

Sample Type: Grab

BSK Associates Laboratory Fresno
General Chemistry

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Conductivity @ 25C	SM 2510B	89	1.0	umhos/cm	1	AGE0419	05/05/23	05/05/23	
Nitrate as N	EPA 300.0	0.27	0.23	mg/L	1	AGE0196	05/03/23	05:29	05/03/23
Nitrite as N	EPA 300.0	ND	0.050	mg/L	1	AGE0196	05/03/23	05:29	05/03/23
Total Dissolved Solids	SM 2540C	88	5.0	mg/L	1	AGE0229	05/03/23		05/03/23
Total Kjeldahl Nitrogen	EPA 351.2	ND	1.0	mg/L	1	AGE0512	05/08/23		05/11/23
Total Nitrogen, IC	CALC	ND	1.0	mg/L					



AGE0268

RB5 Surface

BSK Associates Laboratory Fresno

General Chemistry Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	Date Limit Analyzed	Qual
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EPA 300.0 - Quality Control

Batch: AGE0196 Prepared: 5/2/2023
Prep Method: Method Specific Preparation Analyst: GJA

Blank (AGE0196-BLK1)

Nitrate as N	ND	0.23	mg/L						05/02/23
Nitrite as N	ND	0.050	mg/L						05/02/23

Blank Spike (AGE0196-BS1)

Nitrate as N	22	0.23	mg/L	23	ND	95	90-110		05/02/23
Nitrite as N	0.95	0.050	mg/L	1.0	ND	95	90-110		05/02/23

Matrix Spike (AGE0196-MS1), Source: AGE0289-01

Nitrate as N	17	0.23	mg/L	11	6.8	95	80-120		05/03/23
Nitrite as N	0.45	0.050	mg/L	0.50	ND	90	75-125		05/03/23

Matrix Spike (AGE0196-MS2), Source: AGE0289-02

Nitrate as N	18	0.23	mg/L	11	7.3	96	80-120		05/03/23
Nitrite as N	0.45	0.050	mg/L	0.50	ND	91	75-125		05/03/23

Matrix Spike Dup (AGE0196-MSD1), Source: AGE0289-01

Nitrate as N	20	0.23	mg/L	11	6.8	116	80-120	13	20	05/03/23
Nitrite as N	0.55	0.050	mg/L	0.50	ND	110	75-125	20	20	05/03/23

Matrix Spike Dup (AGE0196-MSD2), Source: AGE0289-02

Nitrate as N	18	0.23	mg/L	11	7.3	97	80-120	0	20	05/03/23
Nitrite as N	0.46	0.050	mg/L	0.50	ND	92	75-125	1	20	05/03/23

EPA 351.2 - Quality Control

Batch: AGE0512 Prepared: 5/8/2023
Prep Method: Method Specific Preparation Analyst: ERA

Blank (AGE0512-BLK2)

Total Kjeldahl Nitrogen	ND	1.0	mg/L						05/11/23
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Blank Spike (AGE0512-BS2)

Total Kjeldahl Nitrogen	10	1.0	mg/L	10	ND	102	90-110		05/11/23
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Blank Spike Dup (AGE0512-BSD2)

Total Kjeldahl Nitrogen	9.4	1.0	mg/L	10	ND	94	90-110	8	10	05/11/23
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Matrix Spike (AGE0512-MS3), Source: AGE0045-01

Total Kjeldahl Nitrogen	180	10	mg/L	10	180	NR	90-110		05/12/23	MS1.0 Low
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Matrix Spike (AGE0512-MS4), Source: AGE0275-01

Total Kjeldahl Nitrogen	7.8	1.0	mg/L	10	ND	78	90-110		05/11/23	MS1.0 Low
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Matrix Spike Dup (AGE0512-MSD3), Source: AGE0045-01

Total Kjeldahl Nitrogen	190	10	mg/L	10	180	67	90-110	8	10	05/12/23	MS1.0 Low
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The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

AGE0268 FINAL 05162023 1322

BSK Associates Laboratory Fresno

General Chemistry Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	Date Limit Analyzed	Qual
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EPA 351.2 - Quality Control

Batch: AGE0512 Prepared: 5/8/2023
 Prep Method: Method Specific Preparation Analyst: ERA

Matrix Spike Dup (AGE0512-MSD4), Source: AGE0275-01

Total Kjeldahl Nitrogen	8.5	1.0	mg/L	10	ND	85	90-110	8	10	05/11/23 MS1.0 Low
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SM 2510B - Quality Control

Batch: AGE0419 Prepared: 5/5/2023
 Prep Method: Method Specific Preparation Analyst: EFG

Blank (AGE0419-BLK1)

Conductivity @ 25C	ND	1.0	umhos/cm							05/05/23
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Blank Spike (AGE0419-BS1)

Conductivity @ 25C	1400	1.0	umhos/cm	1400	ND	98	90-110			05/05/23
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Blank Spike Dup (AGE0419-BSD1)

Conductivity @ 25C	1400	1.0	umhos/cm	1400	ND	98	90-110	1	5	05/05/23
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Duplicate (AGE0419-DUP1), Source: AGE0519-03

Conductivity @ 25C	240	1.0	umhos/cm		240			0	5	05/05/23
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SM 2540C - Quality Control

Batch: AGE0229 Prepared: 5/3/2023
 Prep Method: Method Specific Preparation Analyst: EMN

Blank (AGE0229-BLK1)

Total Dissolved Solids	ND	5.0	mg/L							05/03/23
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Blank Spike (AGE0229-BS1)

Total Dissolved Solids	1100		mg/L	1000		106	70-130			05/03/23
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Duplicate (AGE0229-DUP1), Source: AGE0185-01

Total Dissolved Solids	1600	5.0	mg/L		1500			7	10	05/03/23
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Duplicate (AGE0229-DUP2), Source: AGE0224-07

Total Dissolved Solids	580	5.0	mg/L		590			1	10	05/03/23
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Certificate of Analysis

Notes:

- The Chain of Custody document and Sample Integrity Sheet are part of the analytical report.
 - Any remaining sample(s) for testing will be disposed of according to BSK's sample retention policy unless other arrangements are made in advance.
 - All positive results for EPA Methods 504.1 and 524.2 require the analysis of a Field Reagent Blank (FRB) to confirm that the results are not a contamination error from field sampling steps. If Field Reagent Blanks were not submitted with the samples, this method requirement has not been performed.
 - Samples collected by BSK Analytical Laboratories were collected in accordance with the BSK Sampling and Collection Standard Operating Procedures.
 - J-value is equivalent to DNQ (Detected, not quantified) which is a trace value. A trace value is an analyte detected between the MDL and the laboratory reporting limit. This result is of an unknown data quality and is only qualitative (estimated). Baseline noise, calibration curve extrapolation below the lowest calibrator, method blank detections, and integration artifacts can all produce apparent DNQ values, which contribute to the un-reliability of these values.
 - (1) - Residual chlorine and pH analysis have a 15 minute holding time for both drinking and waste water samples as defined by the EPA and 40 CFR 136. Waste water and ground water (monitoring well) samples must be field filtered to meet the 15 minute holding time for dissolved metals.
 - Field tests are outside the scope of laboratory accreditation and there is no certification available for field testing.
 - Summations of analytes (i.e. Total Trihalomethanes) may appear to add individual amounts incorrectly, due to rounding of analyte values occurring before or after the total value is calculated, as well as rounding of the total value.
 - RL Multiplier is the factor used to adjust the reporting limit (RL) due to variations in sample preparation procedures and dilutions required for matrix interferences.
 - Due to the subjective nature of the Threshold Odor Method , all characterizations of the detected odor are the opinion of the panel of analysts. The characterizations can be found in Standard Methods 2170B Figure 2170:1.
 - The MCLs provided in this report (if applicable) represent the primary MCLs for that analyte.
 - (2) - Formerly known as Bis(2-Chloroisopropyl) ether.
- Unless otherwise noted, TOC results by SM 5310C method do not include purgeable organic carbon, which is removed along with the inorganic carbon interference. The POC contribution to TOC is considered to be negligible.

Certificate of Analysis**Definitions**

mg/L: Milligrams/Liter (ppm)
mg/Kg: Milligrams/Kilogram (ppm)
µg/L: Micrograms/Liter (ppb)
µg/Kg: Micrograms/Kilogram (ppb)
%: Percent
NR: Non-Reportable

MDL: Method Detection Limit
RL: Reporting Limit: DL x Dilution
ND: None Detected below MRL/MDL
pCi/L: PicoCuries per Liter
RL Mult: RL Multiplier
MCL: Maximum Contaminant Limit

MDA95: Min. Detected Activity
MPN: Most Probable Number
CFU: Colony Forming Unit
Absent: Less than 1 CFU/100mLs
Present: 1 or more CFU/100mLs
U: The analyte was not detected at or above the reported sample quantitation limit.

Please see the individual Subcontract Lab's report for applicable certifications.

The following parameters are not available for certification through CA ELAP:

Odor Diisopropyl ether (DIPE) by EPA 524.2

The following parameters are calculated values and are outside the scope of our NELAP accreditation:

Total Nitrogen Aggressive Index Trivalent Chromium

BSK is not accredited under the NELAP program for the following additional parameters: **NA**

Certifications: Please refer to our website for a copy of our Accredited Fields of Testing under each certification.

Fresno

State of California - ELAP	1180	State of Hawaii	4021
Los Angeles CSD	9254479	NELAP certified	4021-021
State of Nevada	CA000792022-1	State of Oregon - NELAP	4021-021
EPA UCMR5	CA00079	State of Washington	C997-23

Sacramento

State of California - ELAP	1180-S1
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San Bernardino

State of California - ELAP	1180-S2	Los Angeles CSD	9254478
NELAP certified	4119-007	State of Oregon - NELAP	4119-007

Vancouver

NELAP certified	WA100008-015	State of Oregon - NELAP	WA100008-015
State of Washington	C824-22		

Sample Integrity

BSK Bottles: Yes No

Page 1 of 1

COC Info			COC Info				
Was temperature within range? Chemistry $\leq 6^{\circ}\text{C}$ Micro $< 8^{\circ}\text{C}$	Yes	No	NA	Were correct containers and preservatives received for the tests requested?	Yes	No	NA
If samples were taken today, is there evidence that chilling has begun?	Yes	No	NA	Bubbles Present VOAs (524.2/TTHM/TCP)? TB Received? (Check Method Below)	Yes	No	NA
Did all bottles arrive unbroken and intact?	Yes	No	NA	Was a sufficient amount of sample received?	Yes	No	NA
Did all bottle labels agree with COC?	Yes	No	NA	Do samples have a hold time < 72 hours?	Yes	No	NA
Was sodium thiosulfate added to CN sample(s) until chlorine was no longer present?	Yes	NA	NA	Was PM notified of discrepancies? PM: By/Time:	Yes	No	NA
250ml(A) 500ml(B) 1Liter(C) 40mlVOA(V) 125ml(D)	Checks*	Passed?	1-3				
Bacti Na ₂ S ₂ O ₃	—	—					
None (P) White Cap	—	—	1C				
Cr6 (P) Lt. Green Label/Blue Cap NH4OH(NH4)2SO ₄ DW	Cl, pH > 8	P F					
Cr6 (P) Pink Label/Blue Cap NH4OH(NH4)2SO ₄ WW	pH 9.3-9.7	P F					
Cr6 (P) Black Label/Blue Cap NH4OH(NH4)2SO ₄ 7199 ***24 HOUR HOLD TIME***	pH 9.0-9.5	P F					
HNO ₃ (P) Red Cap or HCl (P) Purple Cap/Lt. Blue Label	—	—					
H ₂ SO ₄ (P) or (AG) Yellow Cap/Label	pH < 2	P F	1A				
NaOH (P) Green Cap	Cl, pH > 10	P F					
NaOH + ZnAc (P)	pH > 9	P F					
Dissolved Oxygen 300ml (g)	—	—					
None (AG) 608/8081/8082, 625, 632/8321, 8151, 8270	—	—					
HCl (AG) Lt. Blue Label O&G, Diesel, TCP	—	—					
Ascorbic, EDTA, KH ₂ C ₂ O ₄ (AG) Pink Label 525	—	—					
Na ₂ SO ₃ 250mL (AG) Neon Green Label 515	—	—					
Na ₂ S ₂ O ₃ 1 Liter (Brown P) 549	—	—					
Na ₂ S ₂ O ₃ (AG) Blue Label 548, THM, 524	—	—					
Na ₂ S ₂ O ₃ (CG) Blue Label 504, 505, 547	—	—					
Na ₂ S ₂ O ₃ + MCAA (CG) Orange Label 531	pH < 3	P F					
NH ₄ Cl (AG) Purple Label 552	—	—					
EDA (P) or (AG) Brown Label DBPs	—	—					
HCL (CG) 524.2,BTEX, Gas, MTBE, 8260/624	—	—					
Buffer pH 4 (CG)	—	—					
H ₃ PO ₄ (CG) Salmon Label	—	—					
Trizma – EPA 537.1 Light Blue Label FB	—	—					
Ammonia Acetate - EPA 533 Purple Label FB	—	—					
Bottled Water	—	—					
Asbestos 1L (P) w/ Foil / LL Metals Bottle	—	—					
Clear Glass	—	—					
OTHER:	—	—					
Split	Container	Preservative	Lot #	Initials	Date/Time	Preservation	Check
	S P					pH Lot #	AE100297
S P						Cl Lot #	
Comments	*Preservation check completed by lab performing analysis.				<input checked="" type="checkbox"/> Indicates Blanks Received 504 ____ 524.2 ____ TTHM ____ 537/533 ____ TCP ____ <input checked="" type="checkbox"/> MS/MSD Received Method: _____		
Labeled by:	Labels Checked by:				Scanned: Cen Rush/Short HT Page: _____ Time: _____		



1414 Stanislaus St., Fresno, CA 93706
 (559) 497-2888 · Fax (559) 497-2893
www.bskassociates.com

*Required Fields

Temp: **70°** Invoice To: **#477**

Phone:

Fax:

Turnaround Time Request	
<input type="checkbox"/>	Standard - 10 business days
<input type="checkbox"/>	Rush (Surcharge may apply)
Date needed:	



AGT/0268 bella7429 05/02/2023

Company/Client Name*: BEDOME Ranch LLC	Report Attention*: George Borba			
Address*: 14461 Tiet Hwy	Additional Q.C.s: Madisonimblodne.com			
City: Dakotafield	State*: CA			
Zip*: 93627	PO#:			
Project:	Project #:			
Reporting Options: <input type="checkbox"/> Trace (J-Flag) <input type="checkbox"/> Swamp <input type="checkbox"/> EDD Type: _____	How would you like to receive your completed results? <input type="checkbox"/> E-Mail <input type="checkbox"/> Fax <input type="checkbox"/> Mail			
Sampler Name (Printed/Signed): Madison Loper	Regulatory Carbon Copies <input type="checkbox"/> SWRCB (Drinking Water) <input type="checkbox"/> Merced Co <input type="checkbox"/> Madera Co <input type="checkbox"/> Other: _____			
Matrix Types: SW=Surface Water BW=Below Ground Water GW=Ground Water WW=Waste Water STW=Storm Water DW=Drinking Water SO=Solid	Regulatory Compliance <input type="checkbox"/> EDT to California SWRCB (Drinking Water) <input type="checkbox"/> Fresno Co <input type="checkbox"/> Tulare Co <input type="checkbox"/> Geotracker #: _____			
#	Sample Description*	Sampled*	Matrix*	Comments / Station Code / WTRAX
1	1 Buena Vista Canal	5/19/13:00	SW	RB5-Well
2	2 Stine Canal	5/19/13:15	SW	RB5 Well-5 Year Well test
3	3 Farmers Canal	5/19/13:20	SW	RB5-Surface
5-2-23				
Reinquished by: (Signature and Printed Name) Madison Loper	Company JM Lord Inc	Date 5/19/13	Time 15:05	Received by: (Signature and Printed Name)
Reinquished by: (Signature and Printed Name)	Company	Date	Time	Received by: (Signature and Printed Name)
Received for Lab by: (Signature and Printed Name) Madison Loper	Company JM Lord Inc	Date 5/19/13	Time 15:05	Payment Received at Delivery:
Shipping Method: ON TRUCK	Amount	Payment Date:	Check	Cash
Cooling Method: Wet Blue	Init.	Init.	Init.	Init.
None	Custody Seal: Y/N			
Chilling Process Begun: Y/N				
<small>Payment for services rendered as noted herein are due in full within 30 days from the date invoiced. If not so paid, account balances are subject to monthly service charges and interest specified in BSK's current Standard Terms and Conditions for Laboratory Services. The person signing for the Client/Company acknowledges that they are either the Client or an authorized agent to the Client, that the Client agrees to be responsible for payment for the services on this Chain of Custody, and agrees to BSK's terms and conditions for laboratory services unless contractually bound otherwise. BSK's current terms and conditions can be found at www.bskassociates.com/BSKLabTermsConditions.pdf</small>				



JMLORD, INC.

4184 N. KNOLL DRIVE FRESNO, CA 93722
PHONE: (559) 268-9755 FAX: (559) 486-6504
WWW.JMLORDINC.COM

2023 Groundwater Well Report

Dairy:
Contact: Belonave Ranch LLC
George Borba

Address: 14461 Taft Highway
Bakersfield, CA 93311

Summary

Seventeen wells were sampled at the Belonave Ranch LLC by dairy personnel. The samples collected are listed below. Electrical conductivity (EC) was measured in the laboratory. Ammonium presence was measured in the field using test strips. Results were recorded on the sampling record for each sample collected. Samples were collected in bottles provided by the testing laboratory. The samples were placed in a cooler with ice packs and delivered to BSK Analytical Laboratories, an ELAP laboratory. Well samples were analyzed as defined in the MRP, updated in February 2011.

Wells Sampled	Date Sampled	Wells Sampled	Date Sampled
Well 2	11/20/2023	Well 11	11/20/2023
Well 3	11/20/2023	Well 13	11/20/2023
Well 4	11/20/2023	Well 14	11/20/2023
Well 5	11/20/2023	Well 16	11/20/2023
Well 6	11/20/2023	Well 17	11/20/2023
Well 7	11/20/2023	Well 18	11/20/2023
Well 8	11/20/2023	Dairy Barn N	11/20/2023
Well 9	11/20/2023	Dairy Barn S	11/20/2023
Well 10	11/20/2023		

EC and NO₃-N were not measured for Well 1, Well 12, and Well 15 as they were non-operational for the 2023 year. Attached are copies of the field records developed when samples were collected, the Chain of Custody forms, map showing well locations, and the analytical results from BSK Analytical Laboratories.

Note: The regulatory limit for Nitrate as NO₃-N is 10 mg/L.



JMLORD, INC.

4184 N. KNOLL DRIVE FRESNO, CA 93722
PHONE: (559) 268-9755 FAX: (559) 486-6504
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FRESH WATER SAMPLING RECORD

For any fresh water source, such as domestic wells, irrigation wells or canal water used for irrigation.
Refer to the Sampling and Analysis Plan for details of how the sample should be collected.

Facility: Belonave Ranch LLC

Date: 11/20/23

Source ID: Wells 2,3,4,6,7,8,9,10,5

Time: 11:35 - 1:15

Source Location: _____

Sample Properties at Time of Sampling

Sample Type: Groundwater Well Surface Water

EC: Measured in laboratory.

Field measurement.

EC _____ (μ S or mS)

Circle the correct units for EC.

Ammonium: Field measurement. Present Absent
 Not Applicable.

Notes: Wells are absent of Ammonium

and are clear with no smell.

Sample should be delivered to an ELAP Certified Laboratory for testing within 48 hours of collection.
Field testing for ammonium is only required for groundwater wells. If ammonium is present, sample must
also be analyzed for ammonium in the ELAP laboratory.

Sampler Signature:



JMLORD, INC.

4184 N. KNOLL DRIVE FRESNO, CA 93722
PHONE: (559) 268-9755 FAX: (559) 486-6504
WWW.JMLORDINC.COM

FRESH WATER SAMPLING RECORD

For any fresh water source, such as domestic wells, irrigation wells or canal water used for irrigation.
Refer to the Sampling and Analysis Plan for details of how the sample should be collected.

Facility: Belonave Ranch LLC

Date: 11/20/23

Source ID: Wells 11,13,14,16, 17,18

Time: 10:20 - 11:30

Source Location: _____

Sample Properties at Time of Sampling

Sample Type: Groundwater Well Surface Water

EC: Measured in laboratory.

Field measurement.

EC _____ (μ S or mS)

Circle the correct units for EC.

Ammonium: Field measurement.
 Not Applicable.

Present Absent

Notes: Wells are absent of ammonium and
are clear with no smell.

Sample should be delivered to an ELAP Certified Laboratory for testing within 48 hours of collection.
Field testing for ammonium is only required for groundwater wells. If ammonium is present, sample must
also be analyzed for ammonium in the ELAP laboratory.

Sampler Signature:

Dottie Chaffin



JMLORD, INC.

4184 N. KNOLL DRIVE FRESNO, CA 93722
PHONE: (559) 268-9755 FAX: (559) 486-6504
WWW.JMLORDINC.COM

FRESH WATER SAMPLING RECORD

For any fresh water source, such as domestic wells, irrigation wells or canal water used for irrigation.
Refer to the Sampling and Analysis Plan for details of how the sample should be collected.

Facility: Belonave Ranch LLC

Date: 11/20/23

Source ID: Dairy Barn N, Dairy Barn S

Time: 10:00 - 10:15

Source Location:

Sample Properties at Time of Sampling

Sample Type: Groundwater Well Surface Water

EC: Measured in laboratory.

Field measurement.

EC _____ (μ S or mS)

Circle the correct units for EC.

Ammonium: Field measurement. Present Absent
 Not Applicable.

Notes: Wells are absent of ammonium and
are clear with no smell.

Sample should be delivered to an ELAP Certified Laboratory for testing within 48 hours of collection.
Field testing for ammonium is only required for groundwater wells. If ammonium is present, sample must
also be analyzed for ammonium in the ELAP laboratory.

Sampler Signature:

Darle Clift



BSK Associates Laboratory Fresno
687 N. Laverne Avenue
Fresno, CA 93727
559-497-2888 (Main)

AGK2679
12/05/2023
Invoice: AG28426

George Borba
Belonave Ranch LLC
14461 Taft Highway
Bakersfield, CA 93311

RE: Report for AGK2679 RB5 Well 5 Year

Dear George Borba,

Thank you for using BSK Associates for your analytical testing needs. In the following pages, you will find the test results for the samples submitted to our laboratory on 11/20/2023. The results have been approved for release by our Laboratory Director as indicated by the authorizing signature below.

The samples were analyzed for the test(s) indicated on the Chain of Custody (see attached) and the results relate only to the samples analyzed. BSK certifies that the testing was performed in accordance with the quality system requirements specified in the 2016 TNI Standard. Any deviations from this standard or from the method requirements for each test procedure performed will be annotated alongside the analytical result or noted in the Case Narrative. Unless otherwise noted, the sample results are reported on an "as received" basis.

This certificate of analysis shall not be reproduced except in full, without written approval of the laboratory.

If additional clarification of any information is required, please contact your Project Manager,
Michelle Croft , at 559-497-2888.

Thank you again for using BSK Associates. We value your business and appreciate your loyalty.

Sincerely,

Michelle Croft, Project Manager



Accredited in Accordance with NELAP
ORELAP #4021

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

AGK2679 FINAL 12052023 2132



AGK2679

RB5 Well 5 Year

Case Narrative

Project and Report Details		Invoice Details
Client:	Belonave Ranch LLC	Invoice To: Belonave Ranch LLC
Report To:	George Borba	Invoice Attn: George Borba
Project #:	RB5 Well 5 Year	Project PO#: -
Received:	11/20/2023 - 15:00	
Report Due:	12/06/2023	

Sample Receipt Conditions

Cooler: Default Cooler
Temperature on Receipt °C: 15.4

Containers Intact
COC/Labels Agree
Received On Blue Ice
Sample(s) arrived at lab on same day sampled.
Sample(s) were received in temperature range.
Initial receipt at BSK-FAL

Data Qualifiers

The following qualifiers have been applied to one or more analytical results:

MS1.0 Matrix spike recoveries exceed control limits.

Report Distribution

Recipient(s)	Report Format	CC:
George Borba	FINAL.RPT	
Dustie Christensen	FINAL.RPT	



AGK2679

RB5 Well 5 Year

RB5 Well 5 Year

Certificate of Analysis

Sample ID: AGK2679-01

Sampled By: Dustie Christensen

Sample Description: Well #2

Sample Date - Time: 11/20/2023 - 13:15

Matrix: Water

Sample Type: Grab

BSK Associates Laboratory Fresno General Chemistry

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Chloride	EPA 300.0	17	1.0	mg/L	1	AGK1631	11/28/23	11/28/23	
Sulfate as SO4	EPA 300.0	37	1.0	mg/L	1	AGK1631	11/28/23	11/28/23	
Total Dissolved Solids	SM 2540C	200	5.0	mg/L	1	AGK1541	11/27/23	11/27/23	

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Calcium	EPA 200.7	7.4	0.10	mg/L	1	AGK1422	11/27/23	11/29/23	
Magnesium	EPA 200.7	ND	0.10	mg/L	1	AGK1422	11/27/23	11/29/23	
Sodium	EPA 200.7	60	1.0	mg/L	1	AGK1422	11/27/23	11/29/23	



AGK2679

RB5 Well 5 Year

RB5 Well 5 Year

Certificate of Analysis

Sample ID: AGK2679-01RE1

Sampled By: Dustie Christensen

Sample Description: Well #2

Sample Date - Time: 11/20/2023 - 13:15

Matrix: Water

Sample Type: Grab

BSK Associates Laboratory Fresno
General Chemistry

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Alkalinity as CaCO ₃	SM 2320B	84	3.0	mg/L	1	AGK1496	11/24/23	11/24/23	
Bicarbonate as CaCO ₃	SM 2320B	77	3.0	mg/L	1	AGK1496	11/24/23	11/24/23	
Carbonate as CaCO ₃	SM 2320B	6.8	3.0	mg/L	1	AGK1496	11/24/23	11/24/23	
Hydroxide as CaCO ₃	SM 2320B	ND	3.0	mg/L	1	AGK1496	11/24/23	11/24/23	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

AGK2679 FINAL 12052023 2132



AGK2679

RB5 Well 5 Year

RB5 Well 5 Year

Certificate of Analysis

Sample ID: AGK2679-02

Sampled By: Dustie Christensen

Sample Description: Well #3

Sample Date - Time: 11/20/2023 - 13:25

Matrix: Water

Sample Type: Grab

**BSK Associates Laboratory Fresno
General Chemistry**

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Chloride	EPA 300.0	28	1.0	mg/L	1	AGK1634	11/28/23	11/28/23	
Sulfate as SO4	EPA 300.0	67	1.0	mg/L	1	AGK1634	11/28/23	11/28/23	
Total Dissolved Solids	SM 2540C	300	5.0	mg/L	1	AGK1548	11/27/23	11/27/23	

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Calcium	EPA 200.7	31	0.10	mg/L	1	AGK1422	11/27/23	11/29/23	
Magnesium	EPA 200.7	0.40	0.10	mg/L	1	AGK1422	11/27/23	11/29/23	
Sodium	EPA 200.7	71	1.0	mg/L	1	AGK1422	11/27/23	11/29/23	



AGK2679

RB5 Well 5 Year

RB5 Well 5 Year

Certificate of Analysis

Sample ID: AGK2679-02RE1

Sampled By: Dustie Christensen

Sample Description: Well #3

Sample Date - Time: 11/20/2023 - 13:25

Matrix: Water

Sample Type: Grab

BSK Associates Laboratory Fresno
General Chemistry

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Alkalinity as CaCO ₃	SM 2320B	110	3.0	mg/L	1	AGK1496	11/24/23	11/24/23	
Bicarbonate as CaCO ₃	SM 2320B	110	3.0	mg/L	1	AGK1496	11/24/23	11/24/23	
Carbonate as CaCO ₃	SM 2320B	ND	3.0	mg/L	1	AGK1496	11/24/23	11/24/23	
Hydroxide as CaCO ₃	SM 2320B	ND	3.0	mg/L	1	AGK1496	11/24/23	11/24/23	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

AGK2679 FINAL 12052023 2132



AGK2679

RB5 Well 5 Year

RB5 Well 5 Year

Certificate of Analysis

Sample ID: AGK2679-03

Sampled By: Dustie Christensen

Sample Description: Well #4

Sample Date - Time: 11/20/2023 - 13:35

Matrix: Water

Sample Type: Grab

BSK Associates Laboratory Fresno
General Chemistry

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Alkalinity as CaCO ₃	SM 2320B	84	3.0	mg/L	1	AGK1338	11/22/23	11/22/23	
Bicarbonate as CaCO ₃	SM 2320B	71	3.0	mg/L	1	AGK1338	11/22/23	11/22/23	
Carbonate as CaCO ₃	SM 2320B	13	3.0	mg/L	1	AGK1338	11/22/23	11/22/23	
Hydroxide as CaCO ₃	SM 2320B	ND	3.0	mg/L	1	AGK1338	11/22/23	11/22/23	
Chloride	EPA 300.0	21	1.0	mg/L	1	AGK1634	11/28/23	11/28/23	
Sulfate as SO ₄	EPA 300.0	50	1.0	mg/L	1	AGK1634	11/28/23	11/28/23	
Total Dissolved Solids	SM 2540C	230	5.0	mg/L	1	AGK1541	11/27/23	11/27/23	

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Calcium	EPA 200.7	4.6	0.10	mg/L	1	AGK1422	11/27/23	11/29/23	
Magnesium	EPA 200.7	ND	0.10	mg/L	1	AGK1422	11/27/23	11/29/23	
Sodium	EPA 200.7	71	1.0	mg/L	1	AGK1422	11/27/23	11/29/23	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

AGK2679 FINAL 12052023 2132



AGK2679

RB5 Well 5 Year

RB5 Well 5 Year

Certificate of Analysis

Sample ID: AGK2679-04

Sampled By: Dustie Christensen

Sample Description: Well #5

Sample Date - Time: 11/20/2023 - 12:50

Matrix: Water

Sample Type: Grab

BSK Associates Laboratory Fresno General Chemistry

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Conductivity @ 25C	SM 2510B	700	1.0	umhos/cm	1	AGK1338	11/22/23	11/22/23	
Nitrate as N	EPA 300.0	3.4	0.23	mg/L	1	AGK1318	11/21/23 05:03	11/21/23	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

AGK2679 FINAL 12052023 2132



AGK2679

RB5 Well 5 Year

RB5 Well 5 Year

Certificate of Analysis

Sample ID: AGK2679-05

Sampled By: Dustie Christensen

Sample Description: Well #6

Sample Date - Time: 11/20/2023 - 12:30

Matrix: Water

Sample Type: Grab

**BSK Associates Laboratory Fresno
General Chemistry**

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Conductivity @ 25C	SM 2510B	530	1.0	umhos/cm	1	AGK1338	11/22/23	11/22/23	
Nitrate as N	EPA 300.0	ND	0.23	mg/L	1	AGK1318	11/21/23 04:48	11/21/23	



AGK2679

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Sample ID: AGK2679-06

Sampled By: Dustie Christensen

Sample Description: Well #7

Sample Date - Time: 11/20/2023 - 12:15

Matrix: Water

Sample Type: Grab

BSK Associates Laboratory Fresno
General Chemistry

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Conductivity @ 25C	SM 2510B	500	1.0	umhos/cm	1	AGK1338	11/22/23	11/22/23	
Nitrate as N	EPA 300.0	ND	0.23	mg/L	1	AGK1318	11/21/23 04:02	11/21/23	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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AGK2679

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RB5 Well 5 Year

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Sample ID: AGK2679-07

Sampled By: Dustie Christensen

Sample Description: Well #8

Sample Date - Time: 11/20/2023 - 12:00

Matrix: Water

Sample Type: Grab

BSK Associates Laboratory Fresno
General Chemistry

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Conductivity @ 25C	SM 2510B	480	1.0	umhos/cm	1	AGK1338	11/22/23	11/22/23	
Nitrate as N	EPA 300.0	ND	0.23	mg/L	1	AGK1318	11/21/23 05:19	11/21/23	

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Sample ID: AGK2679-08

Sampled By: Dustie Christensen

Sample Description: Well #9

Sample Date - Time: 11/20/2023 - 11:45

Matrix: Water

Sample Type: Grab

BSK Associates Laboratory Fresno General Chemistry

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Conductivity @ 25C	SM 2510B	1000	1.0	umhos/cm	1	AGK1340	11/22/23	11/22/23	
Nitrate as N	EPA 300.0	1.0	0.23	mg/L	1	AGK1318	11/21/23 01:58	11/21/23	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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AGK2679

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Sample ID: AGK2679-09

Sampled By: Dustie Christensen

Sample Description: Well #10

Sample Date - Time: 11/20/2023 - 11:35

Matrix: Water

Sample Type: Grab

BSK Associates Laboratory Fresno
General Chemistry

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Conductivity @ 25C	SM 2510B	780	1.0	umhos/cm	1	AGK1340	11/22/23	11/22/23	
Nitrate as N	EPA 300.0	1.4	0.23	mg/L	1	AGK1318	11/21/23 03:46	11/21/23	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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Sample ID: AGK2679-10

Sampled By: Dustie Christensen

Sample Description: Well #11

Sample Date - Time: 11/20/2023 - 11:30

Matrix: Water

Sample Type: Grab

BSK Associates Laboratory Fresno General Chemistry

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Conductivity @ 25C	SM 2510B	520	1.0	umhos/cm	1	AGK1340	11/22/23	11/22/23	
Nitrate as N	EPA 300.0	ND	0.23	mg/L	1	AGK1318	11/21/23 02:44	11/21/23	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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Sample ID: AGK2679-11

Sampled By: Dustie Christensen

Sample Description: Well #13

Sample Date - Time: 11/20/2023 - 11:15

Matrix: Water

Sample Type: Grab

*BSK Associates Laboratory Fresno
General Chemistry*

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Conductivity @ 25C	SM 2510B	620	1.0	umhos/cm	1	AGK1340	11/22/23	11/22/23	
Nitrate as N	EPA 300.0	ND	0.23	mg/L	1	AGK1318	11/21/23 02:29	11/21/23	



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Sample ID: AGK2679-12

Sampled By: Dustie Christensen

Sample Description: Well #14

Sample Date - Time: 11/20/2023 - 10:50

Matrix: Water

Sample Type: Grab

BSK Associates Laboratory Fresno
General Chemistry

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Conductivity @ 25C	SM 2510B	370	1.0	umhos/cm	1	AGK1340	11/22/23	11/22/23	
Nitrate as N	EPA 300.0	ND	0.23	mg/L	1	AGK1318	11/21/23 02:13	11/21/23	

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AGK2679

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Sample ID: AGK2679-13

Sample Date - Time: 11/20/2023 - 10:40

Sampled By: Dustie Christensen

Matrix: Water

Sample Description: Well #16

Sample Type: Grab

BSK Associates Laboratory Fresno
General Chemistry

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Conductivity @ 25C	SM 2510B	390	1.0	umhos/cm	1	AGK1340	11/22/23	11/22/23	
Nitrate as N	EPA 300.0	1.6	0.23	mg/L	1	AGK1318	11/21/23 01:42	11/21/23	



AGK2679

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Sample ID: AGK2679-14

Sampled By: Dustie Christensen

Sample Description: Well #17

Sample Date - Time: 11/20/2023 - 10:30

Matrix: Water

Sample Type: Grab

BSK Associates Laboratory Fresno General Chemistry

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Conductivity @ 25C	SM 2510B	230	1.0	umhos/cm	1	AGK1340	11/22/23	11/22/23	
Nitrate as N	EPA 300.0	ND	0.23	mg/L	1	AGK1318	11/21/23 00:56	11/21/23	

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Sample ID: AGK2679-15

Sampled By: Dustie Christensen

Sample Description: Well #18

Sample Date - Time: 11/20/2023 - 10:20

Matrix: Water

Sample Type: Grab

BSK Associates Laboratory Fresno General Chemistry

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Conductivity @ 25C	SM 2510B	390	1.0	umhos/cm	1	AGK1340	11/22/23	11/22/23	
Nitrate as N	EPA 300.0	1.3	0.23	mg/L	1	AGK1318	11/21/23 00:41	11/21/23	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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AGK2679

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Certificate of Analysis

Sample ID: AGK2679-16

Sampled By: Dustie Christensen

Sample Description: Dairy Barn N

Sample Date - Time: 11/20/2023 - 10:15

Matrix: Water

Sample Type: Grab

BSK Associates Laboratory Fresno General Chemistry

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Conductivity @ 25C	SM 2510B	320	1.0	umhos/cm	1	AGK1340	11/22/23	11/22/23	
Nitrate as N	EPA 300.0	ND	0.23	mg/L	1	AGK1318	11/21/23 00:25	11/21/23	



AGK2679

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Certificate of Analysis

Sample ID: AGK2679-17

Sampled By: Dustie Christensen

Sample Description: Dairy Barn S

Sample Date - Time: 11/20/2023 - 10:00

Matrix: Water

Sample Type: Grab

BSK Associates Laboratory Fresno
General Chemistry

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Conductivity @ 25C	SM 2510B	310	1.0	umhos/cm	1	AGK1340	11/22/23	11/22/23	
Nitrate as N	EPA 300.0	ND	0.23	mg/L	1	AGK1318	11/21/23 00:10	11/21/23	



AGK2679

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BSK Associates Laboratory Fresno
General Chemistry Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 300.0 - Quality Control											
Batch: AGK1318											Prepared: 11/20/2023
Prep Method: Method Specific Preparation											Analyst: AAS
Blank (AGK1318-BLK1)											
Nitrate as N	ND		0.23	mg/L							11/20/23
Blank Spike (AGK1318-BS1)											
Nitrate as N	23		0.23	mg/L	23	ND	103	90-110			11/20/23
Matrix Spike (AGK1318-MS1), Source: AGK2673-01											
Nitrate as N	11		0.23	mg/L	11	ND	100	80-120			11/20/23
Matrix Spike (AGK1318-MS2), Source: AGK2619-02											
Nitrate as N	20		0.23	mg/L	11	8.5	104	80-120			11/21/23
Matrix Spike Dup (AGK1318-MSD1), Source: AGK2673-01											
Nitrate as N	11		0.23	mg/L	11	ND	101	80-120	1	20	11/20/23
Matrix Spike Dup (AGK1318-MSD2), Source: AGK2619-02											
Nitrate as N	20		0.23	mg/L	11	8.5	104	80-120	0	20	11/21/23
EPA 300.0 - Quality Control											
Batch: AGK1631											Prepared: 11/28/2023
Prep Method: Method Specific Preparation											Analyst: IDM
Blank (AGK1631-BLK1)											
Chloride	ND		1.0	mg/L							11/28/23
Sulfate as SO4	ND		1.0	mg/L							11/28/23
Blank Spike (AGK1631-BS1)											
Chloride	100		1.0	mg/L	100	ND	101	90-110			11/28/23
Sulfate as SO4	100		1.0	mg/L	100	ND	101	90-110			11/28/23
Matrix Spike (AGK1631-MS1), Source: AGK3049-09											
Chloride	56		1.0	mg/L	50	5.3	101	80-120			11/28/23
Sulfate as SO4	50		1.0	mg/L	50	ND	98	80-120			11/28/23
Matrix Spike (AGK1631-MS2), Source: AGK3322-01											
Chloride	61		1.0	mg/L	50	11	100	80-120			11/28/23
Sulfate as SO4	50		1.0	mg/L	50	1.1	98	80-120			11/28/23
Matrix Spike Dup (AGK1631-MSD1), Source: AGK3049-09											
Chloride	56		1.0	mg/L	50	5.3	101	80-120	1	20	11/28/23
Sulfate as SO4	51		1.0	mg/L	50	ND	99	80-120	1	20	11/28/23
Matrix Spike Dup (AGK1631-MSD2), Source: AGK3322-01											
Chloride	60		1.0	mg/L	50	11	99	80-120	1	20	11/28/23
Sulfate as SO4	49		1.0	mg/L	50	1.1	97	80-120	1	20	11/28/23

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BSK Associates Laboratory Fresno
General Chemistry Quality Control Report

Analyte	Result	RL	Units	Spike	Source	%REC	RPD	Date
				Level	Result	%REC	Limits	RPD

EPA 300.0 - Quality Control

Batch: AGK1634 Prepared: 11/28/2023
Prep Method: Method Specific Preparation Analyst: IDM

Blank (AGK1634-BLK1)

Chloride	ND	1.0	mg/L	11/28/23
Sulfate as SO ₄	ND	1.0	mg/l	11/28/23

Blank Spike (AGK1634-BS1)

Benthic Index (GR1000+ DS₁) Chloride 100 1.0 mg/L 100 ND 100 90-110 11/28/23
Sulfate as SO₄ 99 1.0 mg/L 100 ND 99 90-110 11/28/23

Matrix Spike (AGK1634-MS1). Source: AGK3204-03

Chloride 56 1.0 mg/L 50 6.9 98 80-120 11/28/23
 Sulfate as SO₄ 74 1.0 mg/L 50 25 98 80-120 11/28/23

Matrix Spike (AGK1634-MS2), Source: AGK3323-01

Chloride 57 1.0 mg/L 50 7.3 99 80-120 11/28/23
 Sulfate as SO₄ 75 1.0 mg/L 50 24 102 80-120 11/28/23

Matrix Spike Dup (AGK1634-MSD1), Source: AGK3204-03

Chloride 57 1.0 mg/L 50 6.9 99 80-120 1 20 11/28/23
 Sulfate as SO₄ 74 1.0 mg/L 50 25 100 80-120 1 20 11/28/23

Matrix Spike Dup (AGK1634-MSD2), Source: AGK3323-01

Chloride	58	1.0	mg/L	50	7.3	101	80-120	2	20	11/28/23
Sulfate as SO ₄	76	1.0	mg/L	50	24	105	80-120	2	20	11/28/23

SM 2320B - Quality Control

Batch: AGK1338 Prepared: 11/22/2023
Prep Method: Method Specific Preparation Analyst: BAG

Blank (AGK1338-BLK1)				
Alkalinity as CaCO ₃	ND	3.0	mg/L	11/22/23
Bicarbonate as CaCO ₃	ND	3.0	mg/L	11/22/23
Carbonate as CaCO ₃	ND	3.0	mg/L	11/22/23
Hydroxide as CaCO ₃	ND	3.0	mg/L	11/22/23

Blank Spike (AGK1338-BS1)

Alkalinity as CaCO₃ 110 3.0 mg/L 100 ND 110 80-120 11/22/23

Blank Spike Dup (AGK1338-BSD1)

Alkalinity as CaCO₃ 110 3.0 mg/L 100 ND 107 80-120 3 20 11/22/23

Duplicate (AGK1338-DUP1), Source: AGK2440-03

Bicarbonate as CaCO ₃	47	3.0	mg/L	46	3	10	11/22/23
Carbonate as CaCO ₃	ND	3.0	mg/L	ND		10	11/22/23
Hydroxide as CaCO ₃	ND	3.0	mg/L	ND		10	11/22/23

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BSK Associates Laboratory Fresno
General Chemistry Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	Date Limit Analyzed	Qual
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SM 2320B - Quality Control

Batch: AGK1496 Prepared: 11/24/2023
Prep Method: Method Specific Preparation Analyst: BAG

Blank (AGK1496-BLK1)

Alkalinity as CaCO ₃	ND	3.0	mg/L							11/24/23
Bicarbonate as CaCO ₃	ND	3.0	mg/L							11/24/23
Carbonate as CaCO ₃	ND	3.0	mg/L							11/24/23
Hydroxide as CaCO ₃	ND	3.0	mg/L							11/24/23

Blank Spike (AGK1496-BS1)

Alkalinity as CaCO ₃	100	3.0	mg/L	100	ND	100	80-120			11/24/23
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Blank Spike Dup (AGK1496-BSD1)

Alkalinity as CaCO ₃	100	3.0	mg/L	100	ND	100	80-120	0	20	11/24/23
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Duplicate (AGK1496-DUP1), Source: AGK2884-09

Alkalinity as CaCO ₃	570	3.0	mg/L		570			0	10	11/24/23
Bicarbonate as CaCO ₃	570	3.0	mg/L		570			0	10	11/24/23
Carbonate as CaCO ₃	ND	3.0	mg/L		ND			10	10	11/24/23
Hydroxide as CaCO ₃	ND	3.0	mg/L		ND			10	10	11/24/23

SM 2510B - Quality Control

Batch: AGK1338 Prepared: 11/22/2023
Prep Method: Method Specific Preparation Analyst: BAG

Blank Spike (AGK1338-BS1)

Conductivity @ 25C	1400	1.0	umhos/cm	1400	ND	102	90-110			11/22/23
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Blank Spike Dup (AGK1338-BSD1)

Conductivity @ 25C	1400	1.0	umhos/cm	1400	ND	103	90-110	1	5	11/22/23
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Duplicate (AGK1338-DUP1), Source: AGK2440-03

Conductivity @ 25C	140	1.0	umhos/cm		140			0	5	11/22/23
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SM 2510B - Quality Control

Batch: AGK1340 Prepared: 11/22/2023
Prep Method: Method Specific Preparation Analyst: BAG

Blank Spike (AGK1340-BS1)

Conductivity @ 25C	1400	1.0	umhos/cm	1400	ND	101	90-110			11/22/23
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Blank Spike Dup (AGK1340-BSD1)

Conductivity @ 25C	1400	1.0	umhos/cm	1400	ND	101	90-110	0	5	11/22/23
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Duplicate (AGK1340-DUP1), Source: AGK2628-02

Conductivity @ 25C	1100	1.0	umhos/cm		1100			0	5	11/22/23
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BSK Associates Laboratory Fresno
General Chemistry Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Date Analyzed	Qual
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SM 2540C - Quality Control

Batch: AGK1541 Prepared: 11/27/2023
Prep Method: Method Specific Preparation Analyst: RRV

Blank (AGK1541-BLK1)

Total Dissolved Solids ND 5.0 mg/L 11/27/23

Blank Spike (AGK1541-BS1)

Total Dissolved Solids 990 mg/L 1000 99 70-130 11/27/23

Duplicate (AGK1541-DUP1), Source: AGK2707-01

Total Dissolved Solids 2200 5.0 mg/L 2100 6 10 11/27/23

Duplicate (AGK1541-DUP2), Source: AGK2787-01

Total Dissolved Solids 1100 5.0 mg/L 1100 2 10 11/27/23

SM 2540C - Quality Control

Batch: AGK1548 Prepared: 11/27/2023
Prep Method: Method Specific Preparation Analyst: RRV

Blank (AGK1548-BLK1)

Total Dissolved Solids ND 5.0 mg/L 11/27/23

Blank Spike (AGK1548-BS1)

Total Dissolved Solids 990 mg/L 1000 99 70-130 11/27/23

Duplicate (AGK1548-DUP1), Source: AGK2884-05

Total Dissolved Solids 630 5.0 mg/L 620 1 10 11/27/23

Duplicate (AGK1548-DUP2), Source: SGK0456-02

Total Dissolved Solids 670 5.0 mg/L 650 4 10 11/27/23



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BSK Associates Laboratory Fresno

Metals Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	Date Limit Analyzed	Qual
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EPA 200.7 - Quality Control

Batch: AGK1422

Prepared: 11/27/2023

Prep Method: EPA 200.2

Analyst: SAB

Blank (AGK1422-BLK2)

Calcium	ND	0.10	mg/L			96	85-115		11/29/23
Magnesium	ND	0.10	mg/L			106	85-115		11/29/23
Sodium	ND	1.0	mg/L			107	85-115		11/29/23

Blank Spike (AGK1422-BS2)

Calcium	4.6	0.10	mg/L	4.8	ND	96	85-115		11/29/23
Magnesium	5.1	0.10	mg/L	4.8	ND	106	85-115		11/29/23
Sodium	5.2	1.0	mg/L	4.8	ND	107	85-115		11/29/23

Blank Spike Dup (AGK1422-BSD2)

Calcium	4.8	0.10	mg/L	4.8	ND	99	85-115	3	20	11/29/23
Magnesium	5.0	0.10	mg/L	4.8	ND	104	85-115	1	20	11/29/23
Sodium	5.0	1.0	mg/L	4.8	ND	105	85-115	2	20	11/29/23

Matrix Spike (AGK1422-MS4), Source: AGK2631-01

Calcium	6.9	0.10	mg/L	4.8	2.2	99	70-130		11/29/23
Magnesium	5.1	0.10	mg/L	4.8	ND	105	70-130		11/29/23
Sodium	73	1.0	mg/L	4.8	65	169	70-130		11/29/23 MS1.0 High

Matrix Spike Dup (AGK1422-MSD4), Source: AGK2631-01

Calcium	6.7	0.10	mg/L	4.8	2.2	95	70-130	3	20	11/29/23
Magnesium	4.9	0.10	mg/L	4.8	ND	100	70-130	5	20	11/29/23
Sodium	67	1.0	mg/L	4.8	65	30	70-130	10	20	11/29/23 MS1.0 Low



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Certificate of Analysis

Notes:

- The Chain of Custody document and Sample Integrity Sheet are part of the analytical report.
- Any remaining sample(s) for testing will be disposed of according to BSK's sample retention policy unless other arrangements are made in advance.
- All positive results for EPA Methods 504.1 and 524.2 require the analysis of a Field Reagent Blank (FRB) to confirm that the results are not a contamination error from field sampling steps. If Field Reagent Blanks were not submitted with the samples, this method requirement has not been performed.
- Samples collected by BSK Analytical Laboratories were collected in accordance with the BSK Sampling and Collection Standard Operating Procedures.
- J-value is equivalent to DNQ (Detected, not quantified) which is a trace value. A trace value is an analyte detected between the MDL and the laboratory reporting limit. This result is of an unknown data quality and is only qualitative (estimated). Baseline noise, calibration curve extrapolation below the lowest calibrator, method blank detections, and integration artifacts can all produce apparent DNQ values, which contribute to the un-reliability of these values.
- (1) - Residual chlorine and pH analysis have a 15 minute holding time for both drinking and waste water samples as defined by the EPA and 40 CFR 136. Waste water and ground water (monitoring well) samples must be field filtered to meet the 15 minute holding time for dissolved metals.
- Field tests are outside the scope of laboratory accreditation and there is no certification available for field testing.
- Summations of analytes (i.e. Total Trihalomethanes) may appear to add individual amounts incorrectly, due to rounding of analyte values occurring before or after the total value is calculated, as well as rounding of the total value.
- RL Multiplier is the factor used to adjust the reporting limit (RL) due to variations in sample preparation procedures and dilutions required for matrix interferences.
- Due to the subjective nature of the Threshold Odor Method, all characterizations of the detected odor are the opinion of the panel of analysts. The characterizations can be found in Standard Methods 2170B Figure 2170.1.
- The MCLs provided in this report (if applicable) represent the primary MCLs for that analyte.
- (2) - Formerly known as Bis(2-Chloroisopropyl) ether.
Unless otherwise noted, TOC results by SM 5310C method do not include purgeable organic carbon, which is removed along with the inorganic carbon interference. The POC contribution to TOC is considered to be negligible.



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Certificate of Analysis

Definitions

mg/L:	Milligrams/Liter (ppm)	MDL:	Method Detection Limit	MDA95:	Min. Detected Activity
mg/Kg:	Milligrams/Kilogram (ppm)	RL:	Reporting Limit: DL x Dilution	MPN:	Most Probable Number
µg/L:	Micrograms/Liter (ppb)	ND:	None Detected below MRL/MDL	CFU:	Colony Forming Unit
µg/Kg:	Micrograms/Kilogram (ppb)	pCi/L:	PicoCuries per Liter	Absent:	Less than 1 CFU/100mLs
%:	Percent	RL Mult:	RL Multiplier	Present:	1 or more CFU/100mLs
NR:	Non-Reportable	MCL:	Maximum Contaminant Limit	U:	The analyte was not detected at or above the reported sample quantitation limit.

Please see the individual Subcontract Lab's report for applicable certifications.

The following parameters are not available for certification through CA ELAP:

Odor Diisopropyl ether (DIPE) by EPA 524.2

The following parameters are calculated values and are outside the scope of our NELAP accreditation:

Total Nitrogen Aggressive Index Trivalent Chromium

BSK is not accredited under the NELAP program for the following additional parameters: **NA**

Certifications: Please refer to our website for a copy of our Accredited Fields of Testing under each certification.

Fresno

State of California - ELAP	1180	State of Hawaii	4021
Los Angeles CSD	9254479	NELAP certified	4021-022
State of Nevada	CA000792024-03	State of Oregon - NELAP	4021-022
EPA UCMR5	CA00079	State of Washington	C997-23

Sacramento

State of California - ELAP	1180-S1
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San Bernardino

State of California - ELAP	1180-S2	Los Angeles CSD	9254478
NELAP certified	4119-008	State of Oregon - NELAP	4119-008

Vancouver

NELAP certified	WA100008-016	State of Oregon - NELAP	WA100008-016
State of Washington	C824-23		



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Sample Integrity

BSK Bottles: Yes No

Page 1 of 1

COC Info	Was temperature within range?	Yes	No	NA	Were correct containers and preservatives received for the tests requested?	Yes	No	NA
	Chemistry $\leq 6^{\circ}\text{C}$ Micro $< 8^{\circ}\text{C}$				Bubbles Present VOAs (524.2/TTHM/TCP)?	Yes	No	NA
	If samples were taken today, is there evidence that chilling has begun?	Yes	No	NA	TB Received? (Check Method Below)	Yes	No	NA
	Did all bottles arrive unbroken and intact?	Yes	No		Was a sufficient amount of sample received?	Yes	No	
	Did all bottle labels agree with COC?	Yes	No		Do samples have a hold time < 72 hours?	Yes	No	
	Was sodium thiosulfate added to CN sample(s) until chlorine was no longer present?	Yes	NA		Was PM notified of discrepancies?	Yes	No	NA
				PM:	By Time:			

Bottles Received <small>* means preservation/chlorine checks are either N/A or are performed in the lab</small>	250ml(A) 500ml(B) 1Liter(C) 40mlVOA(V) 125ml(D)	Checks*	Passed?	1-3	4-17			
	Bacti Na ₂ S ₂ O ₃	—	—	IC	PA			
	None (P) White Cap	—	—					
	Cr6 (P) Li Green Label/Blue Cap NH ₄ OH(NH ₄) ₂ SO ₄ DW	pH > 8	P F					
	Cr6 (P) Pink Label/Blue Cap NH ₄ OH(NH ₄) ₂ SO ₄ WW	pH 9.3-9.7	P F					
	Cr6 (P) Black Label/Blue Cap NH ₄ OKNH ₄ (HSO ₄) ₂ 7199 ***24 HOUR HOLD TIME***	pH 9.0-9.5	P F					
	HNO ₃ (P) Red Cap or HCl (P) Purple Cap/Li. Blue Label	—	—	1B				
	H ₂ SO ₄ (P) or (AG) Yellow Cap/Label	pH < 2	P F					
	NaOH (P) Green Cap	Cl, pH > 10	P F					
	NaOH + ZnAc (P)	pH > 9	P F					
	Dissolved Oxygen 300ml (g)	—	—					
	None (AG) 808/8081/8082, 625, 632/8321, 8151, 8270	—	—					
	HCl (AG) LL Blue Label O&G, Diesel, TCP	—	—					
	Ascorbic, EDTA, KH ₂ Cr (AG) Pink Label 525	—	—					
	Na ₂ SO ₃ 250mL (AG) Neon Green Label 515	—	—					
	Na ₂ S ₂ O ₃ 1 Liter (Brown P) 549	—	—					
	Na ₂ S ₂ O ₃ (AG) Blue Label 548, THM, 524	—	—					
	Na ₂ S ₂ O ₃ (CG) Blue Label 504, 505, 547	—	—					
	Na ₂ S ₂ O ₃ + MCAA (CG) Orange Label 531	pH < 3	P F					
	NH ₄ Cl (AG) Purple Label 552	—	—					
	EDA (P) or (AG) Brown Label DBPs	—	—					
	HCL (CG) 524.2/BTEX/Gas, MTBE, 8260/624	—	—					

Split	Container	Preservative	Lot #	Initials	Date/Time	Preservation	Check
	S P					pH Lot #	CI Lot #

Comments	*Preservation check completed by lab performing analysis.	✓ Indicates Blanks Received			
	504	524.2	TTHM	537/533	TCP
	✓ MS/MSD Received Method:				

Labeled by:

Labels Checked by:

Scanned: Cen

Rush/Short HT Page: _____ Time: _____



1414 Stanislaus St., Fresno, CA 93706
(559) 497-2888 · Fax (559) 497-2893

www.bskassociates.com

Turnaround Time Request

- Standard - 10 business days
 - Rush (Surcharge may apply)
- Date needed:

AGK2679 bella7429

11/20/2023



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*Required Fields

Temp:

15.4 #P7

Report Attention:

George Barba

Invoice To:

Company/Client Name*: Belonave Ranch LLC		Report Attention*: George Barba Additional cc's: dustie@jmlord.com		Temp:	PO#:	Phone*:	Fax:	
Address*: 14461 Taft Hwy		City*: Bakersfield	State*: CA	Zip*:				
Project:		Project #:	How would you like to receive your completed results?					
Reporting Options: <input type="checkbox"/> Trace (J-Flag) <input type="checkbox"/> Swamp <input type="checkbox"/> EDD Type: _____		Regulatory Carbon Copies <input type="checkbox"/> SWRCB (Drinking Water) <input type="checkbox"/> Merced Co <input type="checkbox"/> Fresno Co <input type="checkbox"/> Madera Co <input type="checkbox"/> Tulare Co <input type="checkbox"/> Other: _____	<input type="checkbox"/> E-Mail <input type="checkbox"/> Fax <input type="checkbox"/> Mail		Regulatory Compliance <input type="checkbox"/> EDT to California-SWRCB (Drinking Water) System Number: _____ <input type="checkbox"/> Geotracker #: _____			
Sampler Name (Printed/Signature)*: Dustie Christensen Dustie Chater		Matrix Types: SW=Surface Water BW=Bottled Water GW=Ground Water WW=Waste Water STW=Storm Water DW=Drinking Water SO=Solid						
#	Sample Description*	Sampled*	Matrix*	Comments / Station Code / WTRAX				
		Date	Time					
1	Well #2	11/20/23	1:15	GW	X	RB5-Well	RB5-Surface	
2	#3		1:25		X			
3	#4		1:35		X			
4	#5		12:50		X			
5	#6		12:30					
6	#7		12:15					
7	#8		12:00					
8	#9		11:45					
9	#10		11:30					
10	#11		11:15					
11	#13		10:50					
12	#14		10:40					
13	#16		10:30					
14	#17							
Relinquished by: (Signature and Printed Name) Dustie Chater Dustie Christensen		Company	Date	Received by: (Signature and Printed Name)	Company			
Relinquished by: (Signature and Printed Name)		Company	Date	Received by: (Signature and Printed Name)	Company			
Received for Lab by: (Signature and Printed Name) Jeralyn R. James		Date	Time	Payment Received at Delivery:	Check	/	Cash	
Shipping Method: ONTRAC UPS GSO WALK-IN FED EX Courier: 15ED		Date	Time	Amount:	PI#:	Init.		
Cooling Method: Wet Blue None		Custody Seal: Y/N Chilling Process Begun: Y/N						

Payment for services rendered as noted herein are due in full within 30 days from the date invoiced. If not so paid, account balances are deemed delinquent. Delinquent balances are subject to monthly service charges and interest specified in BSK's current Standard Terms and Conditions for Laboratory Services. The person signing for the Client/Company acknowledges that they are either the Client or an authorized agent to the Client, that the Client agrees to be responsible for payment for the services on this Chain of Custody, and agrees to BSK's terms and conditions for laboratory services unless contractually bound otherwise. BSK's current terms and conditions can be found at www.bskassociates.com/BSKLabTermsConditions.pdf

SR-FL-0012-07



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Turnaround Time Request

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- Rush (Surcharge may apply)
- Date needed:

AGK2679 bella7429 11/20/2023



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*Required Fields

Temp: 154 79

Company/Client Name*: Belonave Ranch LLC		Report Attention*: George Barba	Invoice To*: Dustie Christensen	Phone*: _____	Fax*: _____
Address*: 14461 Taft Hwy		City*: Bakersfield	State*: CA	E-mail*: _____	
Project: _____		Project #: _____	How would you like to receive your completed results?		_____
Reporting Options: <input type="checkbox"/> Trace (J-Flag) <input type="checkbox"/> Swamp <input type="checkbox"/> EDD Type: _____		Regulatory Carbon Copies <input type="checkbox"/> SWRCB (Drinking Water) <input type="checkbox"/> Merced Co <input type="checkbox"/> Fresno Co <input type="checkbox"/> Madera Co <input type="checkbox"/> Tulare Co <input type="checkbox"/> Other: _____	Regulatory Compliance <input type="checkbox"/> EDT to California SWRCB (Drinking Water) System Number: _____ <input type="checkbox"/> Geotracker #: _____	RB5-Well	
Sampler Name (Printed/Signature)*: Dustie Christensen Data Chk		Matrix Types: SW=Surface Water BW=Bottled Water GW=Ground Water WW=Waste Water STW=Storm Water DW=Drinking Water SO=Solid		RB5-Well-5 Year Well test	
#	Sample Description*	Sampled* Date Time	Matrix*	Comments / Station Code / WTRAX	
15	Well #18	11/20/23 10:20	GW	X	RB5-Surface
16	Dairy Barn N	10:15		L	
17	Dairy Barn S	10:00		L	
Relinquished by: (Signature and Printed Name): Dustie Christensen Company: JM Lord Inc Date: 11/20/23 Received by: (Signature and Printed Name) _____ Company: _____					
Relinquished by: (Signature and Printed Name): Dustie Christensen Company: JM Lord Inc Date: 11/20/23 Received by: (Signature and Printed Name) _____ Company: _____					
Received for Lab by: (Signature and Printed Name): Janice Jones Date: 11/20/23 Time: 10:50 AM Payment Received at Delivery: _____					
Check: <input checked="" type="checkbox"/> Cash: <input type="checkbox"/>					
Shipping Method: ONTRAC UPS GSO WALCAN FED EX Courier: _____					
Custody Seal: Y/N					
Cooling Method: Wet Blue None Chilling Process Begun: Y/N					

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