

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

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

## DAIRY FACILITY INFORMATION

**A. NAME OF DAIRY OR BUSINESS OPERATING THE DAIRY:** J&D Wilson Dairy #2

Physical address of dairy:

23565 Grangeville BLVD

Number and Street

Lemoore

City

Kings

County

93230

Zip Code

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

Date facility was originally placed in operation: 01/01/1980Regional Water Quality Control Board Basin Plan designation: San Joaquin River Basin

County Assessor Parcel Number(s) for dairy facility:

X004-X240-X061-XXXX X004-X240-X062-XXXX**B. OPERATORS**

Wilson, Jim

Operator name: Wilson, JimTelephone no.: (559) 866-5278

Landline

Cellular

11720 W Mt. Whitney

Mailing Address Number and Street

Riverdale

City

CA

State

93656

Zip Code

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

Wilson, Jim

Legal owner name: Wilson, JimTelephone no.: (559) 866-5278

Landline

Cellular

11720 W Mt. Whitney

Mailing Address Number and Street

Riverdale

City

CA

State

93656

Zip Code

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

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**AVAILABLE NUTRIENTS**

**A. HERD INFORMATION**

	Milk Cows	Dry Cows	Bred Heifers (15-24 mo.)	Heifers (7-14 mo. to breeding)	Calves (4-6 mo.)	Calves (0-3 mo.)
Number open confinement	1,350	120	750	700	0	0
Number under roof	0	0	0	0	0	0
Maximum number	1,350	120	750	700	0	0
Average number	1,350	120	750	700	0	0
Avg live weight (lbs)	1,200	1,300	1,000	800		

Predominant milk cow breed: Holstein

Average milk production: 69 pounds per cow per day

**B. MANURE GENERATED**

Total manure excreted by the herd: 50,848.87 tons per reporting period

Total nitrogen from manure: 610,196.61 lbs per reporting period

After ammonia losses (30% loss applied): 427,137.63 lbs per reporting period

Total phosphorus from manure: 102,446.98 lbs per reporting period

Total potassium from manure: 257,650.51 lbs per reporting period

Total salt from manure: 663,241.50 lbs per reporting period

**C. PROCESS WASTEWATER GENERATED**

Process wastewater generated: 61,078,603 gallons

Total nitrogen generated: 165,470.59 lbs

Total phosphorus generated: 9,607.80 lbs

Total potassium generated: 55,104.16 lbs

Total salt generated: 429,728.47 lbs

61,078,603 gallons applied
+ 0 gallons exported
- 0 gallons imported
= 61,078,603 gallons generated

**D. FRESH WATER SOURCES**

Source Description	Type
Barn	Ground water
Canal	Surface water

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**E. SUBSURFACE (TILE) DRAINAGE SOURCES**

*No subsurface (tile) drainage sources entered.*

**F. NUTRIENT IMPORTS**

*No dry manure nutrient imports entered.*

*No process wastewater nutrient imports entered.*

*No commercial or other nutrient imports entered.*

**G. NUTRIENT EXPORTS**

*No solid nutrient exports entered.*

*No liquid nutrient exports entered.*

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## APPLICATION AREA

**A. LIST OF LAND APPLICATION AREAS**

Field name	Controlled acres	Cropable acres	Total harvests	Type of waste applied	Parcel number
1	40	40	2	process wastewater	X004-X220-X099-XXXX
10	70	70	0	none	X004-X240-X003-XXXX
12	75	75	2	process wastewater	X004-X220-X063-XXXX X004-X220-X064-XXXX X004-X220-X098-XXXX
14	22	22	0	none	X004-X220-X076-XXXX
2	37	37	2	process wastewater	X004-X240-X001-XXXX
20	30	30	1	manure	X004-X061-X025-XXXX X004-X061-X026-XXXX
21	20	20	1	manure	X004-X061-X030-XXXX
22	105	105	1	manure	X004-X061-X032-XXXX
24	60	60	1	manure	X055-X470-X019-XXXX
3	50	50	2	process wastewater	X004-X240-X067-XXXX
4	20	20	2	process wastewater	X004-X240-X067-XXXX
5	75	75	2	process wastewater	X004-X240-X067-XXXX
6	65	65	2	process wastewater	X004-X230-X045-XXXX
7	42	42	2	process wastewater	X022-X010-X007-XXXX
8	40	40	0	none	X022-X020-X002-XXXX
9	45	45	0	none	X022-X020-X003-XXXX
Totals for areas that were used for application	619	619	20		
Totals for areas that were not used for application	177	177	0		
Land application area totals	796	796	20		

**B. CROPS AND HARVESTS**

1

Field name: 1

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1

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

Crop: Wheat, silage, boot stageAcres planted: 40 Plant date: 11/01/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/23/2023	632.00 ton	Dry-weight		61.6	22,500.00	3,400.00	24,600.00		8.86

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	256.00	44.80	192.00	0.00
Total actual harvest content	15.80	273.02	41.26	298.51	1,075.11

06/01/2023: Corn, silage

Crop: Corn, silageAcres planted: 40 Plant date: 06/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
12/08/2023	1,089.50 ton	Dry-weight		67.3	14,800.00	1,900.00	10,200.00		5.68

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	28.00	224.00	42.00	184.80	0.00
Total actual harvest content	27.24	263.64	33.85	181.70	1,011.80

12

Field name: 12

11/01/2022: Triticale, boot stage

Crop: Triticale, boot stageAcres planted: 75 Plant date: 11/01/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/23/2023	1,089.50 ton	Dry-weight		70.1	11,600.00	1,200.00	7,800.00		0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	256.00	44.80	192.00	0.00
Total actual harvest content	14.53	100.77	10.42	67.76	0.00

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12

06/01/2023: Corn, silage

Crop: Corn, silage Acres planted: 75 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 (%)
12/08/2023	2,086.30 ton	Dry-weight		65.8	13,100.00	2,300.00	6,700.00		5.87

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	28.00	224.00	42.00	184.80	0.00
Total actual harvest content	27.82	249.25	43.76	127.48	1,116.89

2

Field name: 2

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

Crop: Wheat, silage, boot stage Acres planted: 37 Plant date: 11/01/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/23/2023	587.50 ton	Dry-weight		71.2	10,700.00	950.00	6,300.00		0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	256.00	44.80	192.00	0.00
Total actual harvest content	15.88	97.86	8.69	57.62	0.00

06/01/2023: Corn, silage

Crop: Corn, silage Acres planted: 37 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 (%)
12/08/2023	1,022.40 ton	Dry-weight		65.7	15,700.00	1,800.00	11,400.00		5.82

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	28.00	224.00	42.00	184.80	0.00
Total actual harvest content	27.63	297.61	34.12	216.10	1,103.23

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20

Field name: 20

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

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

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/25/2023	477.50 ton	Dry-weight		72.1	10,500.00	1,800.00	9,800.00		0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	256.00	44.80	192.00	0.00
Total actual harvest content	15.92	93.26	15.99	87.04	0.00

21

Field name: 21

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

Crop: Wheat, silage, boot stage Acres planted: 20 Plant date: 11/01/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/25/2023	315.20 ton	Dry-weight		63.4	12,300.00	1,100.00	7,200.00		0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	256.00	44.80	192.00	0.00
Total actual harvest content	15.76	141.90	12.69	83.06	0.00

22

Field name: 22

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22

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

Crop: Wheat, silage, boot stageAcres planted: 105 Plant date: 11/01/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/25/2023	1,653.20 ton	Dry-weight		68.3	10,200.00	1,000.00	6,800.00		0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	256.00	44.80	192.00	0.00
Total actual harvest content	15.74	101.82	9.98	67.88	0.00

24

Field name: 24

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

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

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/25/2023	955.30 ton	Dry-weight		64.3	9,400.00	1,300.00	6,300.00		0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	256.00	44.80	192.00	0.00
Total actual harvest content	15.92	106.86	14.78	71.62	0.00

3

Field name: 3

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3

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

Crop: Wheat, silage, boot stageAcres planted: 50 Plant date: 11/01/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/25/2023	789.50 ton	Dry-weight		63.5	12,500.00	1,200.00	5,400.00		0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	256.00	44.80	192.00	0.00
Total actual harvest content	15.79	144.08	13.83	62.24	0.00

06/01/2023: Corn, silage

Crop: Corn, silageAcres planted: 50 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 (%)
12/08/2023	1,386.30 ton	Dry-weight		65.2	16,000.00	2,000.00	9,200.00		5.68

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	28.00	224.00	42.00	184.80	0.00
Total actual harvest content	27.73	308.76	38.59	177.54	1,096.09

4

Field name: 4

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

Crop: Wheat, silage, boot stageAcres planted: 20 Plant date: 11/01/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/23/2023	315.30 ton	Dry-weight		64.2	11,500.00	1,300.00	6,400.00		0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	256.00	44.80	192.00	0.00
Total actual harvest content	15.77	129.81	14.67	72.24	0.00

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4

06/01/2023: Corn, silage

Crop: Corn, silage Acres planted: 20 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 (%)
12/08/2023	552.30 ton	Dry-weight		65.7	16,400.00	1,800.00	13,600.00		6.24

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	28.00	224.00	42.00	184.80	0.00
Total actual harvest content	27.62	310.68	34.10	257.64	1,182.10

5

Field name: 5

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

Crop: Wheat, silage, boot stage Acres planted: 75 Plant date: 11/01/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/25/2023	1,185.30 ton	Dry-weight		61.5	11,200.00	1,300.00	6,700.00		0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	256.00	44.80	192.00	0.00
Total actual harvest content	15.80	136.29	15.82	81.53	0.00

06/01/2023: Corn, silage

Crop: Corn, silage Acres planted: 75 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 (%)
12/08/2023	2,089.30 ton	Dry-weight		65.6	15,200.00	1,800.00	14,100.00		5.83

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	28.00	224.00	42.00	184.80	0.00
Total actual harvest content	27.86	291.32	34.50	270.24	1,117.37

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6

Field name: 6

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

Crop: Wheat, silage, boot stage

Acres planted: 65 Plant date: 11/01/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/23/2023	1,033.60 ton	Dry-weight		60.6	12,700.00	1,300.00	99,800.00		0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	256.00	44.80	192.00	0.00
Total actual harvest content	15.90	159.14	16.29	1,250.54	0.00

06/01/2023: Corn, silage

Crop: Corn, silage

Acres planted: 65 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 (%)
12/08/2023	1,805.30 ton	Dry-weight		65.7	12,900.00	3,200.00	8,100.00		5.54

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	28.00	224.00	42.00	184.80	0.00
Total actual harvest content	27.77	245.78	60.97	154.33	1,055.53

7

Field name: 7

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

Crop: Wheat, silage, boot stage

Acres planted: 42 Plant date: 11/01/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/25/2023	665.30 ton	Dry-weight		62.4	10,700.00	1,300.00	9,800.00		0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	256.00	44.80	192.00	0.00
Total actual harvest content	15.84	127.46	15.49	116.74	0.00

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7

06/01/2023: Corn, silage

Crop: Corn, silage Acres planted: 42 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 (%)
12/08/2023	1,153.30 <i>ton</i>	Dry-weight		66.7	12,800.00	2,000.00	9,700.00		6.27

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	28.00	224.00	42.00	184.80	0.00
Total actual harvest content	27.46	234.09	36.58	177.39	1,146.66

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## NUTRIENT BUDGET

## A. LAND APPLICATIONS

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

Field name: 1

Crop: Wheat, silage, boot stage

Plant date: 11/01/2022

Application date	Application method		Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
01/01/2023	Surface (irrigation)		No precipitation		No precipitation		No precipitation
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW		Process wastewater	36.08	1.32	14.12	92.42	314,629.00 <i>gal</i>
Application event totals			36.08	1.32	14.12	92.42	
02/03/2023	Surface (irrigation)		No precipitation		No precipitation		No precipitation
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal		Surface water	0.00	0.00	0.00	8.58	3,425,600.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	8.58	
03/04/2023	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
WW		Process wastewater	36.08	1.32	14.12	92.42	314,629.00 <i>gal</i>
Canal		Surface water	0.00	0.00	0.00	8.58	3,425,600.00 <i>gal</i>
Application event totals			36.08	1.32	14.12	101.00	
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
WW		Process wastewater	36.08	1.32	14.12	92.42	314,629.00 <i>gal</i>
Canal		Surface water	0.00	0.00	0.00	8.58	3,425,600.00 <i>gal</i>
Application event totals			36.08	1.32	14.12	101.00	

1 - 06/01/2023: Corn, silage

Field name: 1

Crop: Corn, silage

Plant date: 06/01/2023

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

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
06/28/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	11.31	4,517,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	11.31	
07/08/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	58.47	1.95	10.22	76.83	1,080,000.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	11.31	4,517,000.00 <i>gal</i>
Application event totals		58.47	1.95	10.22	88.14	
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
Canal	Surface water	0.00	0.00	0.00	11.31	4,517,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	11.31	
07/28/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	58.47	1.95	10.22	76.83	1,080,000.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	11.31	4,517,000.00 <i>gal</i>
Application event totals		58.47	1.95	10.22	88.14	
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
Canal	Surface water	0.00	0.00	0.00	11.31	4,517,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	11.31	

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

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

Application date	Application method		Precipitation 24 hours prior	Precipitation during application			Precipitation 24 hours following	
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	
WW		Process wastewater	58.47	1.95	10.22	76.83	1,080,000.00 <i>gal</i>	
Canal		Surface water	0.00	0.00	0.00	11.31	4,517,000.00 <i>gal</i>	
Application event totals			58.47	1.95	10.22	88.14		
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	
WW		Process wastewater	58.47	1.95	10.22	76.83	1,080,000.00 <i>gal</i>	
Canal		Surface water	0.00	0.00	0.00	11.31	4,517,000.00 <i>gal</i>	
Application event totals			58.47	1.95	10.22	88.14		
09/08/2023	Surface (irrigation)		No precipitation	No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
Canal		Surface water	0.00	0.00	0.00	11.31	4,517,000.00 <i>gal</i>	
Application event totals			0.00	0.00	0.00	11.31		

## 12 - 11/01/2022: Triticale, boot stage

Field name: 12

Crop: Triticale, boot stage

Plant date: 11/01/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
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
WW	Process wastewater	26.70	0.98	10.45	68.39	436,572.00 <i>gal</i>
Application event totals		26.70	0.98	10.45	68.39	

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**12 - 11/01/2022: Triticale, boot stage**

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
03/05/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	51.17	1.87	20.02	131.06	836,572.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	10.92	8,180,000.00 <i>gal</i>
Application event totals		51.17	1.87	20.02	141.98	
04/02/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	51.17	1.87	20.02	131.06	836,572.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	10.92	8,180,000.00 <i>gal</i>
Application event totals		51.17	1.87	20.02	141.98	

**12 - 06/01/2023: Corn, silage**

Field name: 12

Crop: Corn, silage

Plant date: 06/01/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
06/29/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	13.62	10,200,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	13.62	
07/09/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	55.72	1.86	9.74	73.23	1,930,000.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	13.62	10,200,000.00 <i>gal</i>
Application event totals		55.72	1.86	9.74	86.85	

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12 - 06/01/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application			Precipitation 24 hours following	
07/19/2023	Surface (irrigation)	No precipitation	No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal		Surface water	0.00	0.00	0.00	13.62	10,200,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	13.62	
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
WW		Process wastewater	55.72	1.86	9.74	73.23	1,930,000.00 <i>gal</i>
Canal		Surface water	0.00	0.00	0.00	13.62	10,200,000.00 <i>gal</i>
Application event totals			55.72	1.86	9.74	86.85	
08/09/2023	Surface (irrigation)	No precipitation	No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal		Surface water	0.00	0.00	0.00	13.62	10,200,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	13.62	
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
WW		Process wastewater	52.44	8.18	28.72	283.68	1,930,000.00 <i>gal</i>
Canal		Surface water	0.00	0.00	0.00	13.62	10,200,000.00 <i>gal</i>
Application event totals			52.44	8.18	28.72	297.30	
08/29/2023	Surface (irrigation)	No precipitation	No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW		Process wastewater	52.44	8.18	28.72	283.68	1,930,000.00 <i>gal</i>
Canal		Surface water	0.00	0.00	0.00	13.62	10,200,000.00 <i>gal</i>
Application event totals			52.44	8.18	28.72	297.30	

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12 - 06/01/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
09/09/2023	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
Canal	Surface water	0.00	0.00	0.00	13.62	10,200,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	13.62	

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

Field name: 2

Crop: Wheat, silage, boot stage

Plant date: 11/01/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
02/04/2023	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
WW	Process wastewater	43.39	1.59	16.98	111.15	350,000.00 <i>gal</i>
Application event totals		43.39	1.59	16.98	111.15	
03/02/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	43.39	1.59	16.98	111.15	350,000.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	8.25	3,050,000.00 <i>gal</i>
Application event totals		43.39	1.59	16.98	119.40	
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
WW	Process wastewater	43.39	1.59	16.98	111.15	350,000.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	8.25	3,050,000.00 <i>gal</i>
Application event totals		43.39	1.59	16.98	119.40	

2 - 06/01/2023: Corn, silage

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2 - 06/01/2023: Corn, silage

Field name: 2

Crop: Corn, silage

Plant date: 06/01/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
07/01/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	9.69	3,580,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	9.69	
07/11/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	61.45	2.05	10.74	80.75	1,050,000.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	9.69	3,580,000.00 <i>gal</i>
Application event totals		61.45	2.05	10.74	90.44	
07/21/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	9.69	3,580,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	9.69	
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
WW	Process wastewater	61.45	2.05	10.74	80.75	1,050,000.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	9.69	3,580,000.00 <i>gal</i>
Application event totals		61.45	2.05	10.74	90.44	
08/11/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	9.69	3,580,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	9.69	

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

Application date	Application method		Precipitation 24 hours prior	Precipitation during application			Precipitation 24 hours following
08/21/2023	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
WW		Process wastewater	57.83	9.02	31.67	312.84	1,050,000.00 <i>gal</i>
Canal		Surface water	0.00	0.00	0.00	9.69	3,580,000.00 <i>gal</i>
Application event totals			57.83	9.02	31.67	322.53	
09/01/2023	Surface (irrigation)		No precipitation	No precipitation			No precipitation
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal		Surface water	0.00	0.00	0.00	9.69	3,580,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	9.69	
09/11/2023	Surface (irrigation)		No precipitation	No precipitation			No precipitation
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal		Surface water	0.00	0.00	0.00	9.69	3,580,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	9.69	

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

Field name: 20

Crop: Wheat, silage, boot stage

Plant date: 11/01/2022

Application date	Application method		Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following		
10/10/2022	Plow/disc		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	95.63	51.34	219.45	6,331.93	200.00 <i>ton</i>
Application event totals				95.63	51.34	219.45	6,331.93	
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
Canal			Surface water	0.00	0.00	0.00	8.28	2,480,000.00 <i>gal</i>
Application event totals				0.00	0.00	0.00	8.28	

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

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following	
03/02/2023	Sidedress	No precipitation		No precipitation		No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal		Surface water	0.00	0.00	0.00	8.28	2,480,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	8.28	
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
Canal		Surface water	0.00	0.00	0.00	8.28	2,480,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	8.28	

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

Field name: 21

Crop: Wheat, silage, boot stage

Plant date: 11/01/2022

Application date	Application method		Precipitation 24 hours prior	Precipitation during application			Precipitation 24 hours following	
10/10/2022	Plow/disc		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	142.50	76.50	327.00	7,123.43	150.00 <i>ton</i>	
Application event totals			142.50	76.50	327.00	7,123.43		
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	
Canal		Surface water	0.00	0.00	0.00	5.41	1,080,000.00 <i>gal</i>	
Application event totals			0.00	0.00	0.00	5.41		
03/06/2023	Surface (irrigation)		No precipitation	No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
Canal		Surface water	0.00	0.00	0.00	5.41	1,080,000.00 <i>gal</i>	
Application event totals			0.00	0.00	0.00	5.41		

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

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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
Canal	Surface water	0.00	0.00	0.00	5.41	1,080,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	5.41	

**22 - 11/01/2022: Wheat, silage, boot stage**

Field name: 22

Crop: Wheat, silage, boot stage

Plant date: 11/01/2022

Application date	Application method		Precipitation 24 hours prior	Precipitation during application			Precipitation 24 hours following	
10/10/2022	Plow/disc		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	108.57	58.29	249.14	5,427.37	600.00 <i>ton</i>
Application event totals				108.57	58.29	249.14	5,427.37	
02/05/2023	Surface (irrigation)		No precipitation	No precipitation			No precipitation	
Source description			Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal			Surface water	0.00	0.00	0.00	9.63	10,100,000.00 <i>gal</i>
Application event totals				0.00	0.00	0.00	9.63	
03/04/2023	Surface (irrigation)		No precipitation	No precipitation			No precipitation	
Source description			Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal			Surface water	0.00	0.00	0.00	9.63	10,100,000.00 <i>gal</i>
Application event totals				0.00	0.00	0.00	9.63	
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
Canal			Surface water	0.00	0.00	0.00	9.63	10,100,000.00 <i>gal</i>
Application event totals				0.00	0.00	0.00	9.63	

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24 - 11/01/2022: Wheat, silage, boot stage

Field name: 24

Crop: Wheat, silage, boot stage

Plant date: 11/01/2022

Application date	Application method	Precipitation 24 hours prior		Precipitation during application			Precipitation 24 hours following
10/10/2022	Plow/disc	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	95.00	51.00	218.00	4,748.95	300.00 <i>ton</i>
Application event totals			95.00	51.00	218.00	4,748.95	
02/03/2023	Surface (irrigation)	No precipitation		No precipitation			No precipitation
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal		Surface water	0.00	0.00	0.00	8.47	5,075,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	8.47	
03/05/2023	Surface (irrigation)	No precipitation		No precipitation			No precipitation
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal		Surface water	0.00	0.00	0.00	8.47	5,075,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	8.47	
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
Canal		Surface water	0.00	0.00	0.00	8.47	5,075,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	8.47	

3 - 11/01/2022: Wheat, silage, boot stage

Field name: 3

Crop: Wheat, silage, boot stage

Plant date: 11/01/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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**3 - 11/01/2022: Wheat, silage, boot stage**

Application date	Application method	Precipitation 24 hours prior	Precipitation during application			Precipitation 24 hours following	
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
WW		Process wastewater	61.93	2.27	24.23	158.62	675,000.00 <i>gal</i>
Application event totals			61.93	2.27	24.23	158.62	
02/05/2023	Surface (irrigation)	No precipitation	No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal		Surface water	0.00	0.00	0.00	8.30	4,145,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	8.30	
03/05/2023	Surface (irrigation)	No precipitation	No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW		Process wastewater	61.93	2.27	24.23	158.62	675,000.00 <i>gal</i>
Canal		Surface water	0.00	0.00	0.00	8.30	4,145,000.00 <i>gal</i>
Application event totals			61.93	2.27	24.23	166.92	
04/06/2023	Surface (irrigation)	No precipitation	No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW		Process wastewater	61.93	2.27	24.23	158.62	675,000.00 <i>gal</i>
Canal		Surface water	0.00	0.00	0.00	8.30	4,145,000.00 <i>gal</i>
Application event totals			61.93	2.27	24.23	166.92	

**3 - 06/01/2023: Corn, silage**

Field name: 3

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

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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**Annual Report - General Order No. R5-2007-0035**

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

**3 - 06/01/2023: Corn, silage**

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
07/02/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	14.31	7,145,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	14.31	
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
WW	Process wastewater	58.47	1.95	10.22	76.83	1,350,000.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	14.31	7,145,000.00 <i>gal</i>
Application event totals		58.47	1.95	10.22	91.14	
07/22/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	14.31	7,145,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	14.31	
08/02/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	123.86	4.54	48.45	317.24	1,350,000.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	14.31	7,145,000.00 <i>gal</i>
Application event totals		123.86	4.54	48.45	331.55	
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
QQ	Process wastewater	58.47	1.95	10.22	76.83	1,350,000.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	14.31	7,145,000.00 <i>gal</i>
Application event totals		58.47	1.95	10.22	91.14	

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

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

## 3 - 06/01/2023: 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)	Amount
WW		Process wastewater	55.02	8.58	30.13	297.64	1,350,000.00 <i>gal</i>
Canal		Surface water	0.00	0.00	0.00	14.31	7,145,000.00 <i>gal</i>
Application event totals			55.02	8.58	30.13	311.95	
09/02/2023	Surface (irrigation)		No precipitation	No precipitation			No precipitation
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal		Surface water	0.00	0.00	0.00	14.31	7,145,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	14.31	
09/12/2023	Surface (irrigation)		No precipitation	No precipitation			No precipitation
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal		Surface water	0.00	0.00	0.00	14.31	7,145,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	14.31	

## 4 - 11/01/2022: Wheat, silage, boot stage

Field name: 4

Crop: Wheat, silage, boot stage

Plant date: 11/01/2022

Application date	Application method		Precipitation 24 hours prior	Precipitation during application			Precipitation 24 hours following	
01/16/2023	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	
WW		Process wastewater	56.19	2.06	21.98	143.93	245,000.00 <i>gal</i>	
Application event totals			56.19	2.06	21.98	143.93		
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	
Canal		Surface water	0.00	0.00	0.00	6.30	1,258,000.00 <i>gal</i>	
Application event totals			0.00	0.00	0.00	6.30		

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

**4 - 11/01/2022: Wheat, silage, boot stage**

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following	
03/05/2023	Surface (irrigation)	No precipitation		No precipitation		No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW		Process wastewater	102.07	3.74	39.93	261.43	445,000.00 <i>gal</i>
Canal		Surface water	0.00	0.00	0.00	6.30	1,258,000.00 <i>gal</i>
Application event totals			102.07	3.74	39.93	267.73	
04/06/2023	Surface (irrigation)	No precipitation		No precipitation		No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal		Surface water	0.00	0.00	0.00	6.30	1,258,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	6.30	

**4 - 06/01/2023: Corn, silage**

Field name: 4

Crop: Corn, silage

Plant date: 06/01/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
06/29/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	11.31	2,258,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	11.31	
07/09/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	113.14	3.78	19.78	148.68	1,045,000.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	11.31	2,258,000.00 <i>gal</i>
Application event totals		113.14	3.78	19.78	159.99	

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

**4 - 06/01/2023: Corn, silage**

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
07/19/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	11.31	2,258,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	11.31	
07/29/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	11.31	2,258,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	11.31	
08/09/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	113.14	3.78	19.78	148.68	1,045,000.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	11.31	2,258,000.00 <i>gal</i>
Application event totals		113.14	3.78	19.78	159.99	
08/19/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	11.31	2,258,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	11.31	
08/29/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	106.47	16.61	58.31	575.99	1,045,000.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	11.31	2,258,000.00 <i>gal</i>
Application event totals		106.47	16.61	58.31	587.30	
09/09/2023	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
Canal	Surface water	0.00	0.00	0.00	11.31	2,258,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	11.31	

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

**4 - 06/01/2023: Corn, silage**

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/19/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	11.31	2,258,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	11.31	

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

Field name: 5

Crop: Wheat, silage, boot stage

Plant date: 11/01/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
01/15/2023	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
WW	Process wastewater	38.84	1.42	15.19	99.48	635,000.00 <i>gal</i>
Application event totals		38.84	1.42	15.19	99.48	
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
WW	Process wastewater	38.84	1.42	15.19	99.48	635,000.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	8.28	6,201,000.00 <i>gal</i>
Application event totals		38.84	1.42	15.19	107.76	
03/08/2023	Subsurface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	38.84	1.42	15.19	99.48	635,000.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	8.28	6,201,000.00 <i>gal</i>
Application event totals		38.84	1.42	15.19	107.76	

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

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

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
04/06/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	38.84	1.42	15.19	99.48	635,000.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	8.28	6,201,000.00 <i>gal</i>
Application event totals		38.84	1.42	15.19	107.76	

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

Field name: 5

Crop: Corn, silage

Plant date: 06/01/2023

Application date	Application method	Precipitation 24 hours prior		Precipitation during application			Precipitation 24 hours following	
06/30/2023	Surface (irrigation)	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
Canal		Surface water	0.00	0.00	0.00	13.62	10,201,000.00 <i>gal</i>	
Application event totals			0.00	0.00	0.00	13.62		
07/10/2023	Surface (irrigation)	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
WW		Process wastewater	58.76	1.96	10.27	77.21	2,035,000.00 <i>gal</i>	
Canal		Surface water	0.00	0.00	0.00	13.62	10,201,000.00 <i>gal</i>	
Application event totals			58.76	1.96	10.27	90.83		
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	
WW		Process wastewater	58.76	1.96	10.27	77.21	2,035,000.00 <i>gal</i>	
Canal		Surface water	0.00	0.00	0.00	13.62	10,201,000.00 <i>gal</i>	
Application event totals			58.76	1.96	10.27	90.83		

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

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

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
07/30/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	58.76	1.96	10.27	77.21	2,035,000.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	13.62	10,201,000.00 <i>gal</i>
Application event totals		58.76	1.96	10.27	90.83	
08/10/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	55.29	8.62	30.28	299.11	2,035,000.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	13.62	10,201,000.00 <i>gal</i>
Application event totals		55.29	8.62	30.28	312.73	
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
WW	Process wastewater	55.29	8.62	30.28	299.11	2,035,000.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	13.62	10,201,000.00 <i>gal</i>
Application event totals		55.29	8.62	30.28	312.73	
08/30/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	13.62	10,201,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	13.62	
09/10/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	13.62	10,201,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	13.62	

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

Field name: 6

Crop: Wheat, silage, boot stage

Plant date: 11/01/2022

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

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

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

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
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
WW	Process wastewater	25.05	0.92	9.80	64.17	355,000.00 <i>gal</i>
Application event totals		25.05	0.92	9.80	64.17	
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
WW	Process wastewater	25.05	0.92	9.80	64.17	355,000.00 <i>gal</i>
Application event totals		25.05	0.92	9.80	64.17	
03/06/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	60.34	2.21	23.61	154.55	855,000.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	10.33	6,705,000.00 <i>gal</i>
Application event totals		60.34	2.21	23.61	164.88	
04/08/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	60.34	2.21	23.61	154.55	855,000.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	10.33	6,705,000.00 <i>gal</i>
Application event totals		60.34	2.21	23.61	164.88	

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

Field name: 6

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

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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**Annual Report - General Order No. R5-2007-0035**

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

6 - 06/01/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following																												
06/29/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation																												
<table><tr><th>Source description</th><th>Material type</th><th>N (lbs/acre)</th><th>P (lbs/acre)</th><th>K (lbs/acre)</th><th>Salt (lbs/acre)</th><th>Amount</th></tr><tr><td>Canal</td><td>Surface water</td><td>0.00</td><td>0.00</td><td>0.00</td><td>10.33</td><td>6,705,000.00 <i>gal</i></td></tr><tr><td>Application event totals</td><td></td><td>0.00</td><td>0.00</td><td>0.00</td><td>10.33</td><td></td></tr></table>					Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	Canal	Surface water	0.00	0.00	0.00	10.33	6,705,000.00 <i>gal</i>	Application event totals		0.00	0.00	0.00	10.33								
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount																										
Canal	Surface water	0.00	0.00	0.00	10.33	6,705,000.00 <i>gal</i>																										
Application event totals		0.00	0.00	0.00	10.33																											
07/09/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation																												
<table><tr><th>Source description</th><th>Material type</th><th>N (lbs/acre)</th><th>P (lbs/acre)</th><th>K (lbs/acre)</th><th>Salt (lbs/acre)</th><th>Amount</th></tr><tr><td>WW</td><td>Process wastewater</td><td>68.29</td><td>2.28</td><td>11.94</td><td>89.75</td><td>2,050,000.00 <i>gal</i></td></tr><tr><td>Canal</td><td>Surface water</td><td>0.00</td><td>0.00</td><td>0.00</td><td>9.36</td><td>6,075,000.00 <i>gal</i></td></tr><tr><td>Application event totals</td><td></td><td>68.29</td><td>2.28</td><td>11.94</td><td>99.11</td><td></td></tr></table>					Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	WW	Process wastewater	68.29	2.28	11.94	89.75	2,050,000.00 <i>gal</i>	Canal	Surface water	0.00	0.00	0.00	9.36	6,075,000.00 <i>gal</i>	Application event totals		68.29	2.28	11.94	99.11	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount																										
WW	Process wastewater	68.29	2.28	11.94	89.75	2,050,000.00 <i>gal</i>																										
Canal	Surface water	0.00	0.00	0.00	9.36	6,075,000.00 <i>gal</i>																										
Application event totals		68.29	2.28	11.94	99.11																											
07/19/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation																												
<table><tr><th>Source description</th><th>Material type</th><th>N (lbs/acre)</th><th>P (lbs/acre)</th><th>K (lbs/acre)</th><th>Salt (lbs/acre)</th><th>Amount</th></tr><tr><td>Canal</td><td>Surface water</td><td>0.00</td><td>0.00</td><td>0.00</td><td>10.33</td><td>6,705,000.00 <i>gal</i></td></tr><tr><td>Application event totals</td><td></td><td>0.00</td><td>0.00</td><td>0.00</td><td>10.33</td><td></td></tr></table>					Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	Canal	Surface water	0.00	0.00	0.00	10.33	6,705,000.00 <i>gal</i>	Application event totals		0.00	0.00	0.00	10.33								
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount																										
Canal	Surface water	0.00	0.00	0.00	10.33	6,705,000.00 <i>gal</i>																										
Application event totals		0.00	0.00	0.00	10.33																											
07/29/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation																												
<table><tr><th>Source description</th><th>Material type</th><th>N (lbs/acre)</th><th>P (lbs/acre)</th><th>K (lbs/acre)</th><th>Salt (lbs/acre)</th><th>Amount</th></tr><tr><td>WW</td><td>Process wastewater</td><td>68.29</td><td>2.28</td><td>11.94</td><td>89.75</td><td>2,050,000.00 <i>gal</i></td></tr><tr><td>Canal</td><td>Surface water</td><td>0.00</td><td>0.00</td><td>0.00</td><td>10.33</td><td>6,705,000.00 <i>gal</i></td></tr><tr><td>Application event totals</td><td></td><td>68.29</td><td>2.28</td><td>11.94</td><td>100.08</td><td></td></tr></table>					Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	WW	Process wastewater	68.29	2.28	11.94	89.75	2,050,000.00 <i>gal</i>	Canal	Surface water	0.00	0.00	0.00	10.33	6,705,000.00 <i>gal</i>	Application event totals		68.29	2.28	11.94	100.08	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount																										
WW	Process wastewater	68.29	2.28	11.94	89.75	2,050,000.00 <i>gal</i>																										
Canal	Surface water	0.00	0.00	0.00	10.33	6,705,000.00 <i>gal</i>																										
Application event totals		68.29	2.28	11.94	100.08																											
08/09/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation																												
<table><tr><th>Source description</th><th>Material type</th><th>N (lbs/acre)</th><th>P (lbs/acre)</th><th>K (lbs/acre)</th><th>Salt (lbs/acre)</th><th>Amount</th></tr><tr><td>Canal</td><td>Surface water</td><td>0.00</td><td>0.00</td><td>0.00</td><td>10.33</td><td>6,705,000.00 <i>gal</i></td></tr><tr><td>Application event totals</td><td></td><td>0.00</td><td>0.00</td><td>0.00</td><td>10.33</td><td></td></tr></table>					Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	Canal	Surface water	0.00	0.00	0.00	10.33	6,705,000.00 <i>gal</i>	Application event totals		0.00	0.00	0.00	10.33								
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount																										
Canal	Surface water	0.00	0.00	0.00	10.33	6,705,000.00 <i>gal</i>																										
Application event totals		0.00	0.00	0.00	10.33																											

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

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

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

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
08/19/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	64.27	10.02	35.19	347.67	2,050,000.00 gal
Canal	Surface water	0.00	0.00	0.00	10.33	6,705,000.00 gal
Application event totals		64.27	10.02	35.19	358.00	
08/29/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	10.33	6,705,000.00 gal
Application event totals		0.00	0.00	0.00	10.33	
09/09/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	64.27	10.02	35.19	347.67	2,050,000.00 gal
Canal	Surface water	0.00	0.00	0.00	10.33	6,705,000.00 gal
Application event totals		64.27	10.02	35.19	358.00	
09/19/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	10.33	6,705,000.00 gal
Application event totals		0.00	0.00	0.00	10.33	

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

Field name: 7

Crop: Wheat, silage, boot stage

Plant date: 11/01/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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**Annual Report - General Order No. R5-2007-0035**

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

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

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
01/16/2023	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
WW	Process wastewater	38.23	1.40	14.95	97.91	350,000.00 <i>gal</i>
Application event totals		38.23	1.40	14.95	97.91	
02/02/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	38.23	1.40	14.95	97.91	350,000.00 <i>gal</i>
Application event totals		38.23	1.40	14.95	97.91	
03/04/2023	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
WW	Process wastewater	38.23	1.40	14.95	97.91	350,000.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	10.19	4,275,000.00 <i>gal</i>
Application event totals		38.23	1.40	14.95	108.11	
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
WW	Process wastewater	38.23	1.40	14.95	97.91	350,000.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	10.19	4,275,000.00 <i>gal</i>
Application event totals		38.23	1.40	14.95	108.11	

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

Field name: 7

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

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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**Annual Report - General Order No. R5-2007-0035**

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

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

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
06/26/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	10.19	4,275,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	10.19	
07/06/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	74.76	2.50	13.07	98.24	1,450,000.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	10.19	4,275,000.00 <i>gal</i>
Application event totals		74.76	2.50	13.07	108.44	
07/16/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	10.19	4,275,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	10.19	
07/26/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	74.76	2.50	13.07	98.24	1,450,000.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	10.19	4,275,000.00 <i>gal</i>
Application event totals		74.76	2.50	13.07	108.44	
08/06/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	10.19	4,275,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	10.19	

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

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

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

Application date	Application method	Precipitation 24 hours prior	Precipitation during application			Precipitation 24 hours following	
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
WW		Process wastewater	74.76	2.50	13.07	98.24	1,450,000.00 <i>gal</i>
Canal		Surface water	0.00	0.00	0.00	10.19	4,275,000.00 <i>gal</i>
Application event totals			74.76	2.50	13.07	108.44	
08/26/2023	Surface (irrigation)	No precipitation	No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal		Surface water	0.00	0.00	0.00	10.19	4,275,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	10.19	
09/06/2023	Surface (irrigation)	No precipitation	No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW		Process wastewater	74.76	2.50	13.07	98.24	1,450,000.00 <i>gal</i>
Canal		Surface water	0.00	0.00	0.00	10.19	4,275,000.00 <i>gal</i>
Application event totals			74.76	2.50	13.07	108.44	
09/16/2023	Surface (irrigation)	No precipitation	No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal		Surface water	0.00	0.00	0.00	10.19	4,275,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	10.19	

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

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

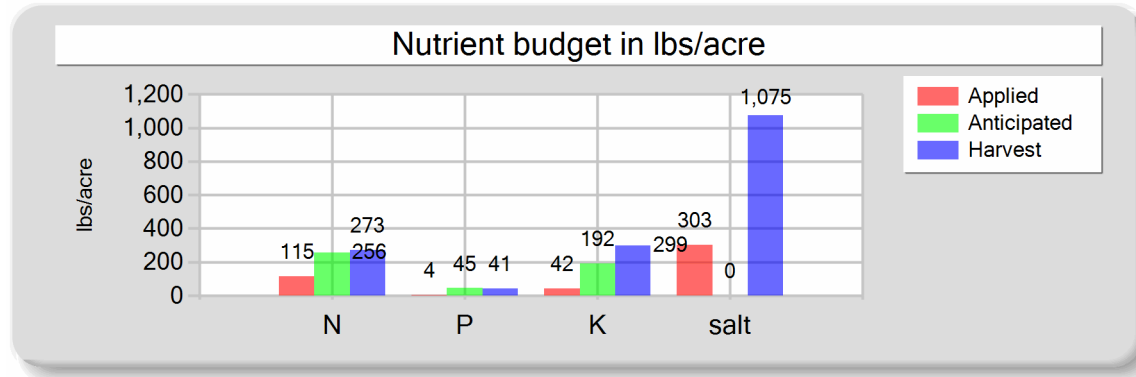
## B. NUTRIENT BUDGET

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

Field name: 1

Crop: Wheat, silage, boot stage

Plant date: 11/01/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	10,276,800.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	378.46 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	9.46 inches/acre
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	108.25	3.96	42.35	277.26	Process wastewater applied
Fresh water	0.00	0.00	0.00	25.73	943,887.00 gallons
Atmospheric deposition	7.00	0.00	0.00	0.00	34.76 acre-inches
Total nutrients applied	115.25	3.96	42.35	302.99	0.87 inches/acre
Anticipated crop nutrient removal	256.00	44.80	192.00	0.00	
Actual crop nutrient removal	273.02	41.26	298.51	1,075.11	Total harvests for the crop
Nutrient balance	-157.78	-37.29	-256.16	-772.12	1 harvests
Applied to removed ratio	0.42	0.10	0.14	0.28	

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

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

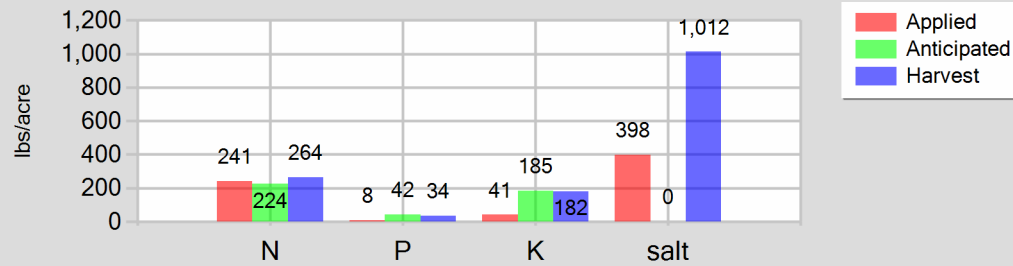
1 - 06/01/2023: Corn, silage

Field name: 1

Crop: Corn, silage

Plant date: 06/01/2023

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	233.87	7.81	40.88	307.33
Fresh water	0.00	0.00	0.00	90.47
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	240.87	7.81	40.88	397.80
Anticipated crop nutrient removal	224.00	42.00	184.80	0.00
Actual crop nutrient removal	263.64	33.85	181.70	1,011.80
Nutrient balance	-22.77	-26.03	-140.81	-614.00
Applied to removed ratio	0.91	0.23	0.22	0.39

Fresh water applied
36,136,000.00 gallons
1,330.77 acre-inches
33.27 inches/acre

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

Total harvests for the crop
1 harvests

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

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

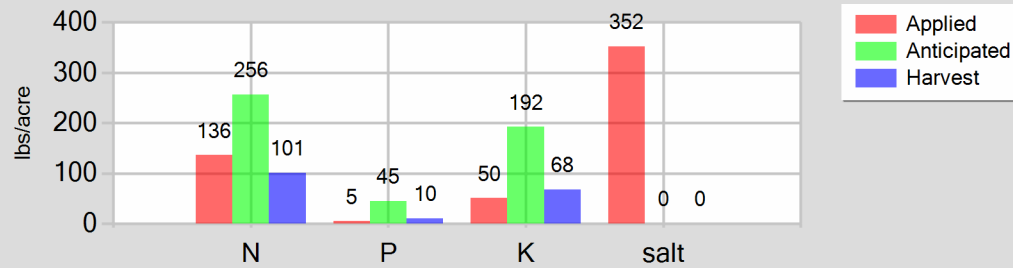
12 - 11/01/2022: Triticale, boot stage

Field name: 12

Crop: Triticale, boot stage

Plant date: 11/01/2022

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	129.04	4.73	50.48	330.52
Fresh water	0.00	0.00	0.00	21.84
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	136.04	4.73	50.48	352.36
Anticipated crop nutrient removal	256.00	44.80	192.00	0.00
Actual crop nutrient removal	100.77	10.42	67.76	0.00
Nutrient balance	35.27	-5.70	-17.28	352.36
Applied to removed ratio	1.35	0.45	0.75	0.00

Fresh water applied
16,360,000.00 gallons
602.48 acre-inches
8.03 inches/acre
Process wastewater applied
2,109,716.00 gallons
77.69 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.

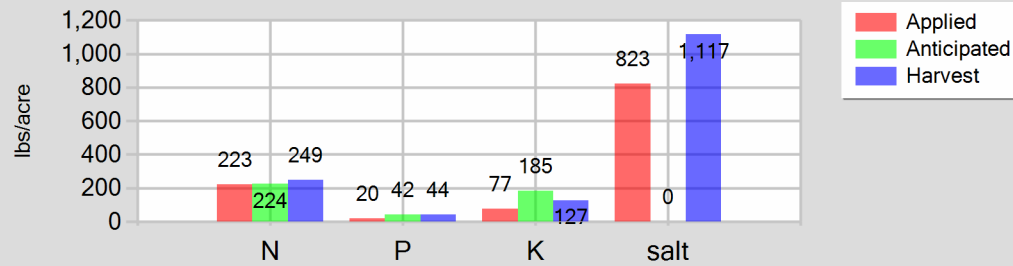
12 - 06/01/2023: Corn, silage

Field name: 12

Crop: Corn, silage

Plant date: 06/01/2023

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	216.32	20.08	76.91	713.81
Fresh water	0.00	0.00	0.00	108.95
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	223.32	20.08	76.91	822.76
Anticipated crop nutrient removal	224.00	42.00	184.80	0.00
Actual crop nutrient removal	249.25	43.76	127.48	1,116.89
Nutrient balance	-25.93	-23.68	-50.57	-294.12
Applied to removed ratio	0.90	0.46	0.60	0.74

Fresh water applied
81,600,000.00 gallons
3,005.05 acre-inches
40.07 inches/acre

Process wastewater applied
7,720,000.00 gallons
284.30 acre-inches
3.79 inches/acre

Total harvests for the crop
1 harvests

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

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

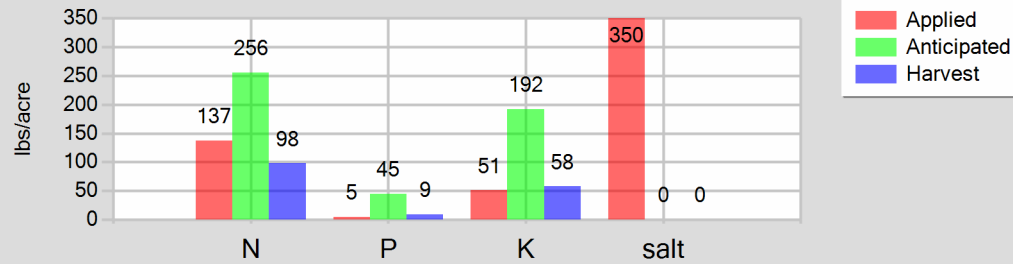
2 - 11/01/2022: Wheat, silage, boot stage

Field name: 2

Crop: Wheat, silage, boot stage

Plant date: 11/01/2022

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	130.18	4.77	50.93	333.44
Fresh water	0.00	0.00	0.00	16.51
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	137.18	4.77	50.93	349.95
Anticipated crop nutrient removal	256.00	44.80	192.00	0.00
Actual crop nutrient removal	97.86	8.69	57.62	0.00
Nutrient balance	39.32	-3.92	-6.69	349.95
Applied to removed ratio	1.40	0.55	0.88	0.00

Fresh water applied
6,100,000.00 gallons
224.64 acre-inches
6.07 inches/acre
Process wastewater applied
1,050,000.00 gallons
38.67 acre-inches
1.05 inches/acre
Total harvests for the crop
1 harvests

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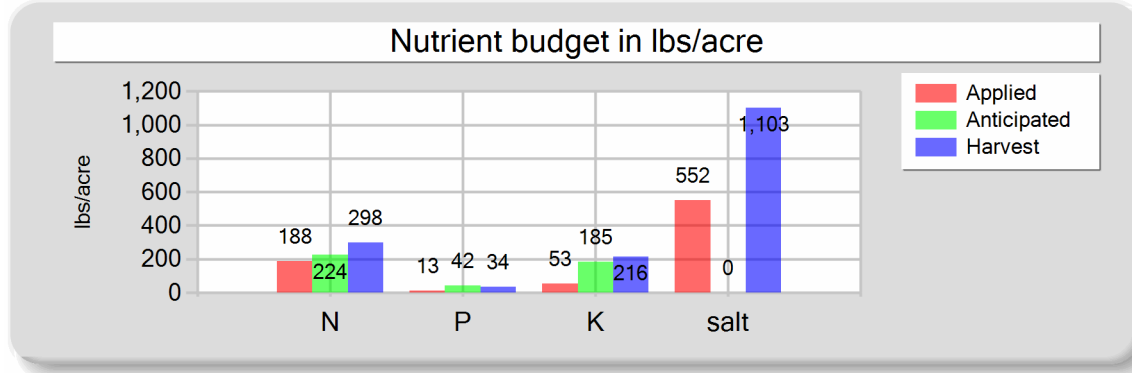
Reporting period 01/01/2023 to 12/31/2023.

2 - 06/01/2023: Corn, silage

Field name: 2

Crop: Corn, silage

Plant date: 06/01/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	180.73	13.13	53.15	474.35
Fresh water	0.00	0.00	0.00	77.51
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	187.73	13.13	53.15	551.86
Anticipated crop nutrient removal	224.00	42.00	184.80	0.00
Actual crop nutrient removal	297.61	34.12	216.10	1,103.23
Nutrient balance	-109.88	-20.99	-162.95	-551.37
Applied to removed ratio	0.63	0.38	0.25	0.50

Fresh water applied
28,640,000.00 <i>gallons</i>
1,054.71 <i>acre-inches</i>
28.51 <i>inches/acre</i>

Process wastewater applied
3,150,000.00 <i>gallons</i>
116.00 <i>acre-inches</i>
3.14 <i>inches/acre</i>

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

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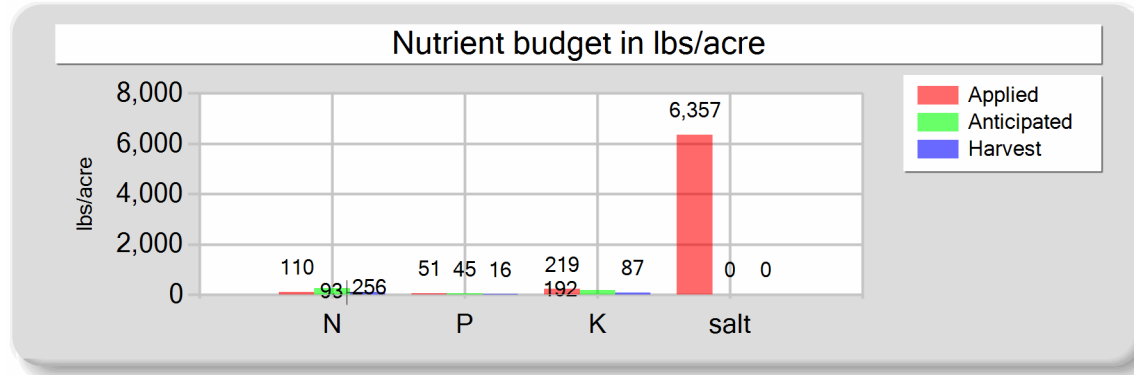
Reporting period 01/01/2023 to 12/31/2023.

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

Field name: 20

Crop: Wheat, silage, boot stage

Plant date: 11/01/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	95.63	51.34	219.45	6,331.93
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.00	0.00	0.00	24.83
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	109.63	51.34	219.45	6,356.77
Anticipated crop nutrient removal	256.00	44.80	192.00	0.00
Actual crop nutrient removal	93.26	15.99	87.04	0.00
Nutrient balance	16.38	35.35	132.41	6,356.77
Applied to removed ratio	1.18	3.21	2.52	0.00

Fresh water applied
7,440,000.00 gallons
273.99 acre-inches
9.13 inches/acre

Process wastewater applied
0.00 gallons
0.00 acre-inches
0.00 inches/acre

Total harvests for the crop
1 harvests

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

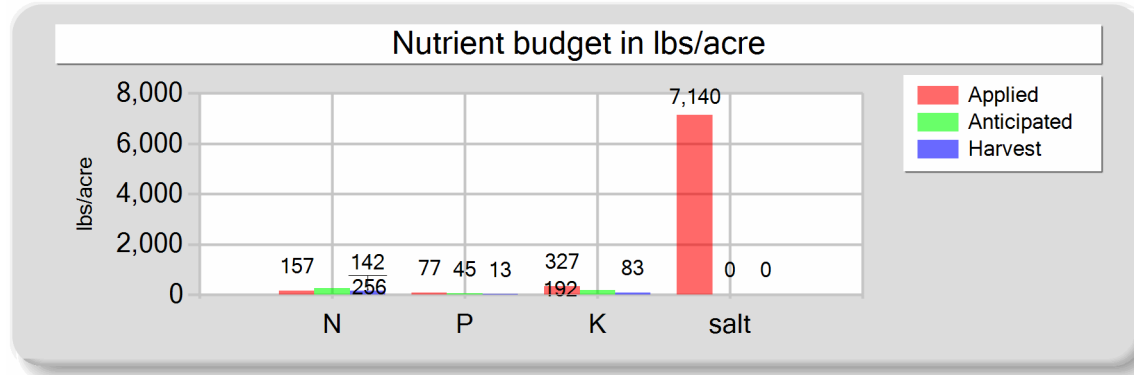
Reporting period 01/01/2023 to 12/31/2023.

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

Field name: 21

Crop: Wheat, silage, boot stage

Plant date: 11/01/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	3,240,000.00 <i>gallons</i>
Plowdown credit	0.00	0.00	0.00	0.00	119.32 <i>acre-inches</i>
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	5.97 <i>inches/acre</i>
Dry manure	142.50	76.50	327.00	7,123.43	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	0.00	0.00	0.00	16.22	
Atmospheric deposition	14.00	0.00	0.00	0.00	
Total nutrients applied	156.50	76.50	327.00	7,139.65	
Anticipated crop nutrient removal	256.00	44.80	192.00	0.00	
Actual crop nutrient removal	141.90	12.69	83.06	0.00	
Nutrient balance	14.60	63.81	243.94	7,139.65	
Applied to removed ratio	1.10	6.03	3.94	0.00	
					<b>Process wastewater applied</b>
					0.00 <i>gallons</i>
					0.00 <i>acre-inches</i>
					0.00 <i>inches/acre</i>
					<b>Total harvests for the crop</b>
					1 <i>harvests</i>

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

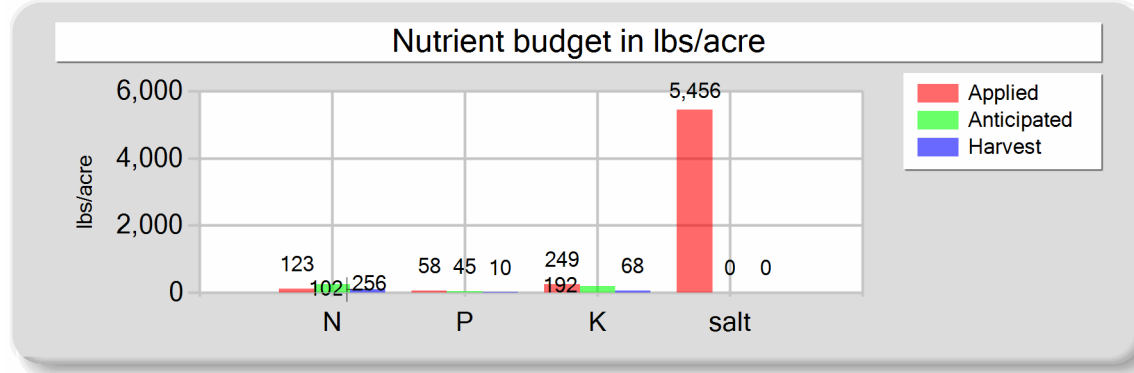
Reporting period 01/01/2023 to 12/31/2023.

22 - 11/01/2022: Wheat, silage, boot stage

Field name: 22

Crop: Wheat, silage, boot stage

Plant date: 11/01/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	30,300,000.00 <i>gallons</i>
Plowdown credit	0.00	0.00	0.00	0.00	1,115.85 <i>acre-inches</i>
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	10.63 <i>inches/acre</i>
Dry manure	108.57	58.29	249.14	5,427.37	
Process wastewater	0.00	0.00	0.00	0.00	
Fresh water	0.00	0.00	0.00	28.90	
Atmospheric deposition	14.00	0.00	0.00	0.00	
Total nutrients applied	122.57	58.29	249.14	5,456.27	
Anticipated crop nutrient removal	256.00	44.80	192.00	0.00	
Actual crop nutrient removal	101.82	9.98	67.88	0.00	
Nutrient balance	20.75	48.30	181.26	5,456.27	
Applied to removed ratio	1.20	5.84	3.67	0.00	
					<b>Process wastewater applied</b>
					0.00 <i>gallons</i>
					0.00 <i>acre-inches</i>
					0.00 <i>inches/acre</i>
					<b>Total harvests for the crop</b>
					1 <i>harvests</i>

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

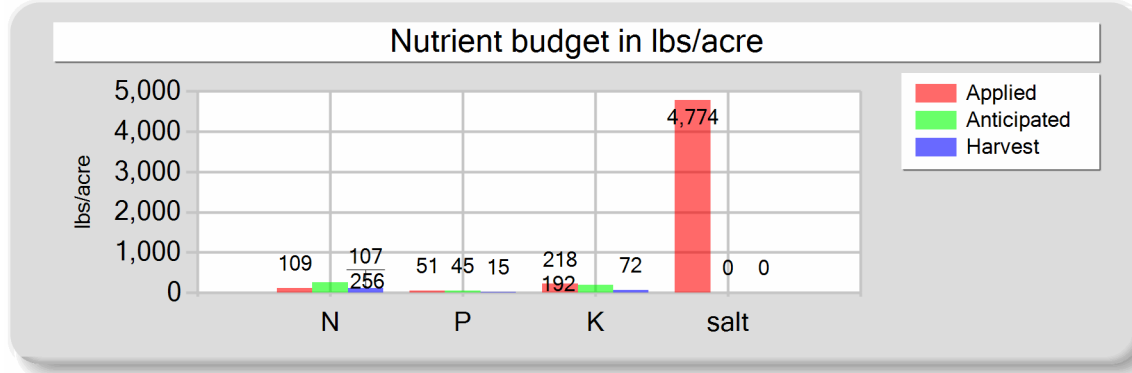
Reporting period 01/01/2023 to 12/31/2023.

24 - 11/01/2022: Wheat, silage, boot stage

Field name: 24

Crop: Wheat, silage, boot stage

Plant date: 11/01/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	95.00	51.00	218.00	4,748.95
Process wastewater	0.00	0.00	0.00	0.00
Fresh water	0.00	0.00	0.00	25.41
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	109.00	51.00	218.00	4,774.36
Anticipated crop nutrient removal	256.00	44.80	192.00	0.00
Actual crop nutrient removal	106.86	14.78	71.62	0.00
Nutrient balance	2.14	36.22	146.38	4,774.36
Applied to removed ratio	1.02	3.45	3.04	0.00

Fresh water applied
15,225,000.00 <i>gallons</i>
560.68 <i>acre-inches</i>
9.34 <i>inches/acre</i>

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

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

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

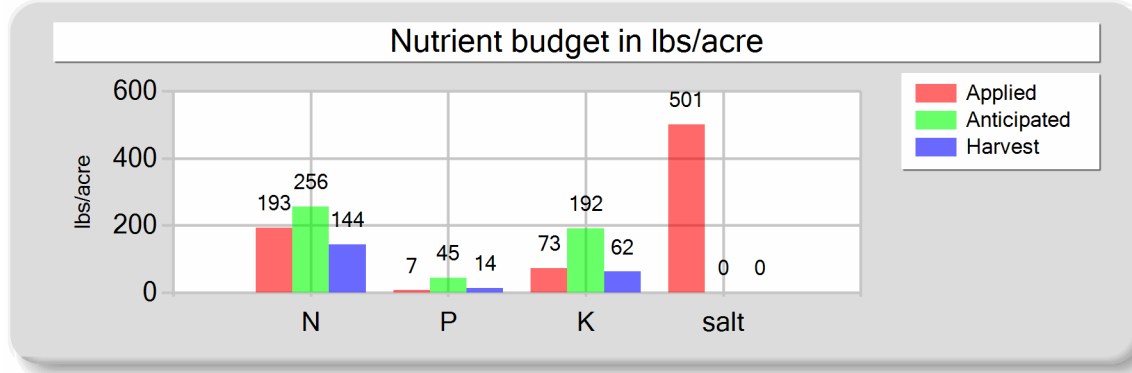
Reporting period 01/01/2023 to 12/31/2023.

3 - 11/01/2022: Wheat, silage, boot stage

Field name: 3

Crop: Wheat, silage, boot stage

Plant date: 11/01/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	185.78	6.80	72.68	475.87
Fresh water	0.00	0.00	0.00	24.90
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	192.78	6.80	72.68	500.77
Anticipated crop nutrient removal	256.00	44.80	192.00	0.00
Actual crop nutrient removal	144.08	13.83	62.24	0.00
Nutrient balance	48.70	-7.03	10.44	500.77
Applied to removed ratio	1.34	0.49	1.17	0.00

Fresh water applied
12,435,000.00 gallons
457.94 acre-inches
9.16 inches/acre

Process wastewater applied
2,025,000.00 gallons
74.57 acre-inches
1.49 inches/acre

Total harvests for the crop
1 harvests

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

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

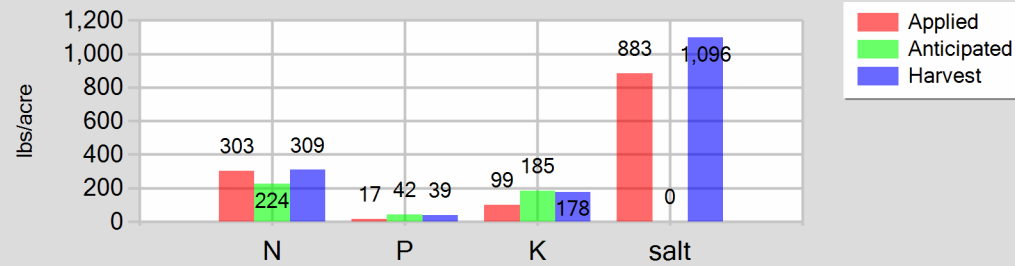
3 - 06/01/2023: Corn, silage

Field name: 3

Crop: Corn, silage

Plant date: 06/01/2023

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	295.81	17.02	99.02	768.55
Fresh water	0.00	0.00	0.00	114.48
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	302.81	17.02	99.02	883.03
Anticipated crop nutrient removal	224.00	42.00	184.80	0.00
Actual crop nutrient removal	308.76	38.59	177.54	1,096.09
Nutrient balance	-5.95	-21.57	-78.51	-213.06
Applied to removed ratio	0.98	0.44	0.56	0.81

Fresh water applied
57,160,000.00 gallons
2,105.01 acre-inches
42.10 inches/acre

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

Total harvests for the crop
1 harvests

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

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

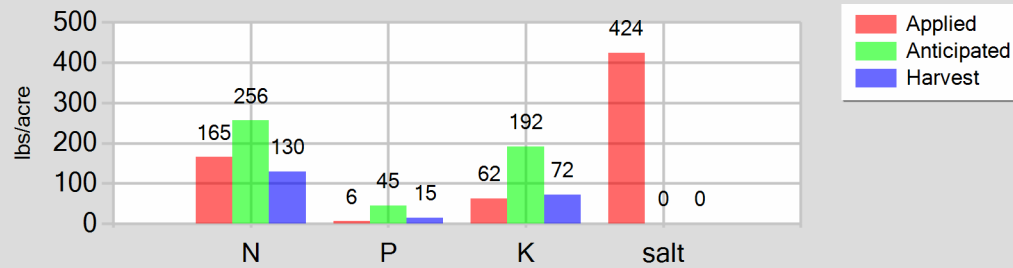
4 - 11/01/2022: Wheat, silage, boot stage

Field name: 4

Crop: Wheat, silage, boot stage

Plant date: 11/01/2022

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	158.26	5.80	61.91	405.37
Fresh water	0.00	0.00	0.00	18.90
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	165.26	5.80	61.91	424.26
Anticipated crop nutrient removal	256.00	44.80	192.00	0.00
Actual crop nutrient removal	129.81	14.67	72.24	0.00
Nutrient balance	35.45	-8.88	-10.33	424.26
Applied to removed ratio	1.27	0.39	0.86	0.00

Fresh water applied
3,774,000.00 gallons
138.98 acre-inches
6.95 inches/acre
Process wastewater applied
690,000.00 gallons
25.41 acre-inches
1.27 inches/acre
Total harvests for the crop
1 harvests

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

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

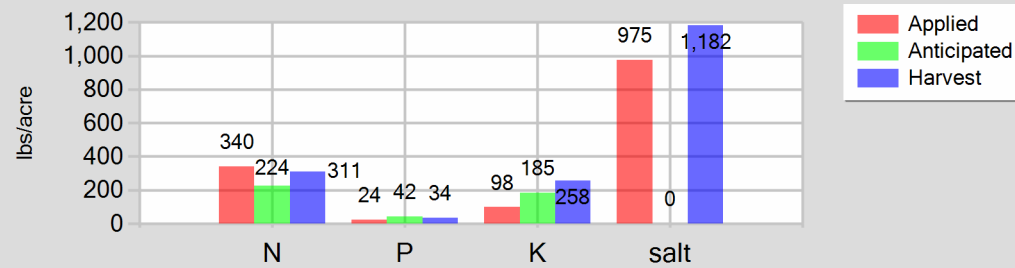
4 - 06/01/2023: Corn, silage

Field name: 4

Crop: Corn, silage

Plant date: 06/01/2023

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	332.76	24.17	97.86	873.36
Fresh water	0.00	0.00	0.00	101.75
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	339.76	24.17	97.86	975.11
Anticipated crop nutrient removal	224.00	42.00	184.80	0.00
Actual crop nutrient removal	310.68	34.10	257.64	1,182.10
Nutrient balance	29.08	-9.93	-159.78	-206.99
Applied to removed ratio	1.09	0.71	0.38	0.82

Fresh water applied
20,322,000.00 gallons
748.39 acre-inches
37.42 inches/acre
Process wastewater applied
3,135,000.00 gallons
115.45 acre-inches
5.77 inches/acre
Total harvests for the crop
1 harvests

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

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

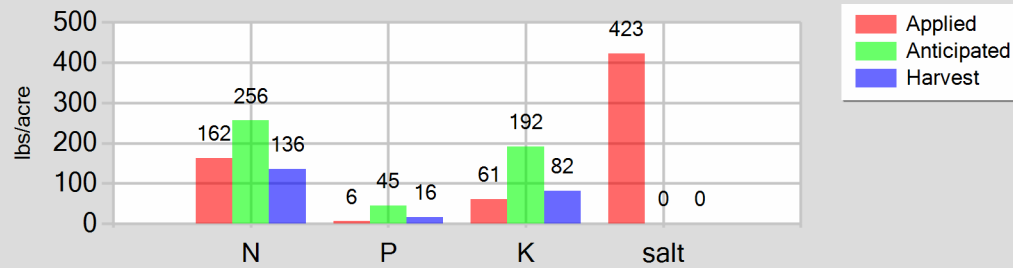
5 - 11/01/2022: Wheat, silage, boot stage

Field name: 5

Crop: Wheat, silage, boot stage

Plant date: 11/01/2022

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	155.35	5.69	60.78	397.93
Fresh water	0.00	0.00	0.00	24.84
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	162.35	5.69	60.78	422.76
Anticipated crop nutrient removal	256.00	44.80	192.00	0.00
Actual crop nutrient removal	136.29	15.82	81.53	0.00
Nutrient balance	26.06	-10.13	-20.76	422.76
Applied to removed ratio	1.19	0.36	0.75	0.00

Fresh water applied
18,603,000.00 gallons
685.09 acre-inches
9.13 inches/acre
Process wastewater applied
2,540,000.00 gallons
93.54 acre-inches
1.25 inches/acre
Total harvests for the crop
1 harvests

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

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

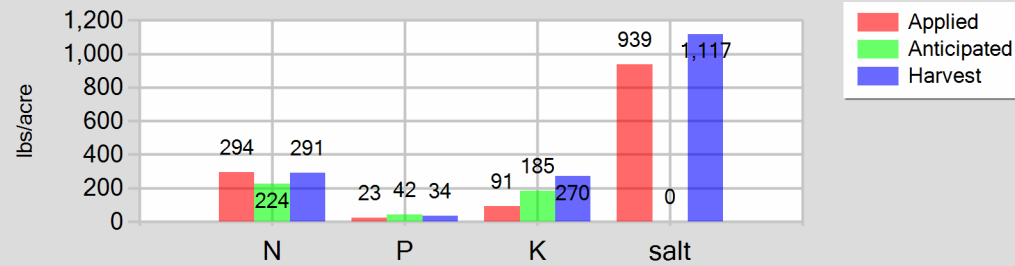
5 - 06/01/2023: Corn, silage

Field name: 5

Crop: Corn, silage

Plant date: 06/01/2023

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	286.85	23.14	91.37	829.86
Fresh water	0.00	0.00	0.00	108.96
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	293.85	23.14	91.37	938.82
Anticipated crop nutrient removal	224.00	42.00	184.80	0.00
Actual crop nutrient removal	291.32	34.50	270.24	1,117.37
Nutrient balance	2.52	-11.36	-178.87	-178.55
Applied to removed ratio	1.01	0.67	0.34	0.84

Fresh water applied
81,608,000.00 gallons
3,005.35 acre-inches
40.07 inches/acre

Process wastewater applied
10,175,000.00 gallons
374.71 acre-inches
5.00 inches/acre

Total harvests for the crop
1 harvests

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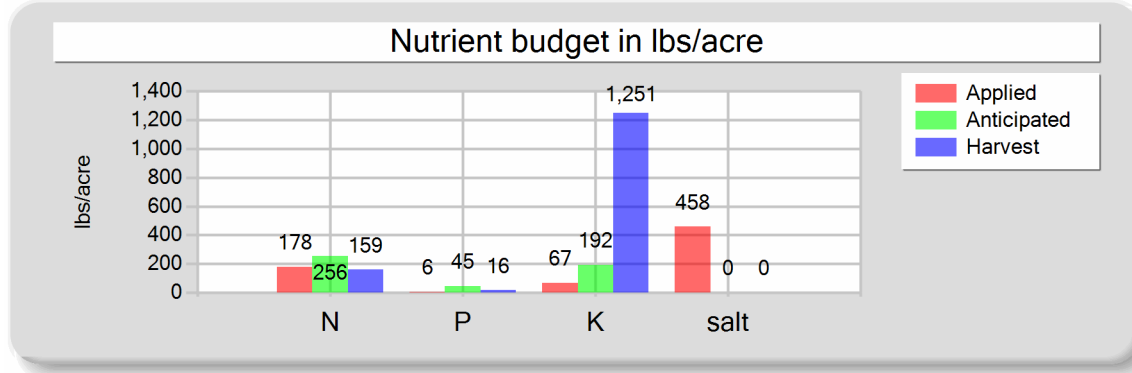
Reporting period 01/01/2023 to 12/31/2023.

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

Field name: 6

Crop: Wheat, silage, boot stage

Plant date: 11/01/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	170.79	6.25	66.81	437.45
Fresh water	0.00	0.00	0.00	20.66
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	177.79	6.25	66.81	458.11
Anticipated crop nutrient removal	256.00	44.80	192.00	0.00
Actual crop nutrient removal	159.14	16.29	1,250.54	0.00
Nutrient balance	18.65	-10.04	-1,183.72	458.11
Applied to removed ratio	1.12	0.38	0.05	0.00

Fresh water applied
13,410,000.00 gallons
493.84 acre-inches
7.60 inches/acre

Process wastewater applied
2,420,000.00 gallons
89.12 acre-inches
1.37 inches/acre

Total harvests for the crop
1 harvests

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

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

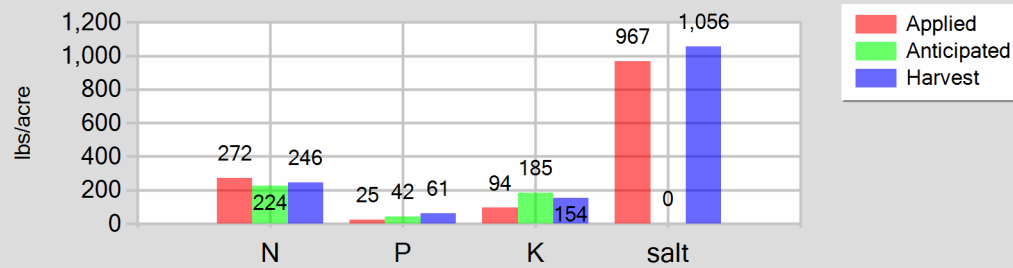
6 - 06/01/2023: Corn, silage

Field name: 6

Crop: Corn, silage

Plant date: 06/01/2023

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	265.12	24.61	94.26	874.84
Fresh water	0.00	0.00	0.00	92.00
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	272.12	24.61	94.26	966.84
Anticipated crop nutrient removal	224.00	42.00	184.80	0.00
Actual crop nutrient removal	245.78	60.97	154.33	1,055.53
Nutrient balance	26.34	-36.36	-60.06	-88.69
Applied to removed ratio	1.11	0.40	0.61	0.92

Fresh water applied
59,715,000.00 gallons
2,199.10 acre-inches
33.83 inches/acre
Process wastewater applied
8,200,000.00 gallons
301.98 acre-inches
4.65 inches/acre
Total harvests for the crop
1 harvests

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

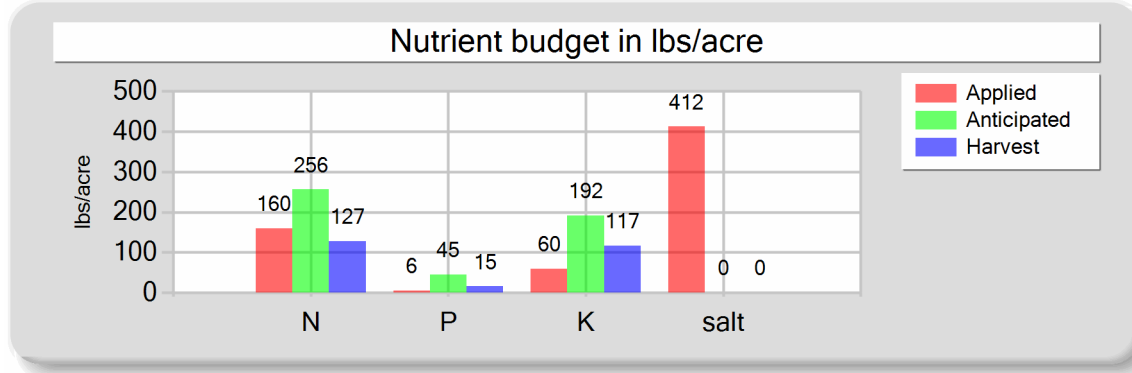
Reporting period 01/01/2023 to 12/31/2023.

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

Field name: 7

Crop: Wheat, silage, boot stage

Plant date: 11/01/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	8,550,000.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	314.87 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	7.50 inches/acre
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	152.91	5.60	59.82	391.66	Process wastewater applied
Fresh water	0.00	0.00	0.00	20.39	1,400,000.00 gallons
Atmospheric deposition	7.00	0.00	0.00	0.00	51.56 acre-inches
Total nutrients applied	159.91	5.60	59.82	412.04	1.23 inches/acre
Anticipated crop nutrient removal	256.00	44.80	192.00	0.00	
Actual crop nutrient removal	127.46	15.49	116.74	0.00	Total harvests for the crop
Nutrient balance	32.45	-9.89	-56.92	412.04	1 harvests
Applied to removed ratio	1.25	0.36	0.51	0.00	

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

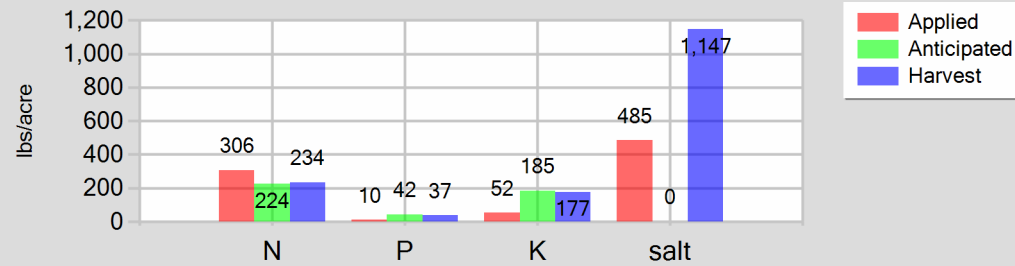
7 - 06/01/2023: Corn, silage

Field name: 7

Crop: Corn, silage

Plant date: 06/01/2023

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	299.04	9.99	52.27	392.97
Fresh water	0.00	0.00	0.00	91.74
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	306.04	9.99	52.27	484.71
Anticipated crop nutrient removal	224.00	42.00	184.80	0.00
Actual crop nutrient removal	234.09	36.58	177.39	1,146.66
Nutrient balance	71.95	-26.58	-125.12	-661.95
Applied to removed ratio	1.31	0.27	0.29	0.42

Fresh water applied
38,475,000.00 gallons
1,416.90 acre-inches
33.74 inches/acre

Process wastewater applied
5,800,000.00 gallons
213.59 acre-inches
5.09 inches/acre

Total harvests for the crop
1 harvests

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

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

## NUTRIENT ANALYSES

## A. MANURE ANALYSES

## Dry Manure

Sample and source description: Dry Manure

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

Moisture: 15.6 %

	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	10,800.00	5,200.00	30,600.00	11,600.00	5,100.00	4,100.00	3,100.00	890.60		54.90
DL	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00		1.00

## Dry Manure

Sample and source description: Dry Manure

Sample date: 10/16/2023 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 24.5 %

	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	9,500.00	5,100.00	21,800.00							62.90
DL	100.00	100.00	100.00							1.00

## B. PROCESS WASTEWATER ANALYSES

## 1st Qtr WW

Sample and source description: 1st Qtr WW

Sample date: 02/03/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 7.82

	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	549.70	57.90	0.00	0.00	20.13	215.05								2,200.00	1,408
DL	67.00	0.57	0.01	0.01	0.64	0.01								1.00	19

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

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

## 2nd WW

Sample and source description: 2nd WW

Sample date: 06/09/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 7.42

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
<b>Value</b>	259.49	25.87	0.00	0.00	8.67	45.36	1.20	0.60	1.60	4.36	0.00	0.30	0.40	534.00	341
<b>DL</b>	67.00	0.57	0.01	0.01	0.64	0.01	0.02	0.01	0.01	0.10	0.10	0.02	0.01	1.00	19

## 3rd Qtr WW

Sample and source description: 3rd Qtr WW

Sample date: 09/13/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 7.19

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
<b>Value</b>	244.18	95.77	0.00	0.00	38.09	133.72								2,065.00	1,321
<b>DL</b>	67.00	0.57	0.01	0.01	0.64	0.01								1.00	19

## 4th Qtr WW

Sample and source description: 4th Qtr WW

Sample date: 12/08/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 7.52

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
<b>Value</b>	359.70	135.90	0.00	0.00	42.70	190.80								2,511.00	1,607
<b>DL</b>	67.00	0.57	0.01	0.01	0.64	0.01								1.00	19

## C. FRESH WATER ANALYSES

Barn

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

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

## Barn

### Barn

Sample description: Barn

Sample date: 12/12/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
<b>Value</b>	0.00										237.00	
<b>DL</b>	0.10										1.00	

## Canal

### Canal

Sample description: Canal

Sample date: 08/17/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
<b>Value</b>	0.00										20.00	
<b>DL</b>	0.10										1.00	

## D. SOIL ANALYSES

*No soil analyses entered.*

## E. PLANT TISSUE ANALYSES

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

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

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

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

**1**

Sample and source description: 1

Sample date: 05/23/2023 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 (%)
<b>Value</b>	12,500.00	3,400.00	24,600.00		8.86
<b>DL</b>	100.00	100.00	100.00		1.00

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

**1**

Sample and source description: 1

Sample date: 12/08/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 67.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	14,800.00	1,900.00	10,200.00		5.68
<b>DL</b>	100.00	100.00	100.00		1.00

**12 - 11/01/2022: Triticale, boot stage**

**12**

Sample and source description: 12

Sample date: 05/23/2023 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 (%)
<b>Value</b>	11,600.00	1,200.00	7,800.00		0.00
<b>DL</b>	100.00	100.00	100.00		1.00

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

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

12 - 06/01/2023: Corn, silage

12

Sample and source description: 12

Sample date: 12/08/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 65.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	13,100.00	2,300.00	6,700.00		5.87
DL	100.00	100.00	100.00		1.00

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

2

Sample and source description: 2

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

Moisture: 71.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	10,700.00	950.00	6,300.00		0.00
DL	100.00	100.00	100.00		1.00

2 - 06/01/2023: Corn, silage

2

Sample and source description: 2

Sample date: 12/08/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 65.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	15,700.00	1,800.00	11,400.00		5.82
DL	100.00	100.00	100.00		1.00

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

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

20

Sample and source description: 20

Sample date: 05/25/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 72.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	10,500.00	1,800.00	9,800.00		0.00
<b>DL</b>	100.00	100.00	100.00		1.00

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

21

Sample and source description: 21

Sample date: 05/25/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 63.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	12,300.00	1,100.00	7,200.00		0.00
<b>DL</b>	100.00	100.00	100.00		1.00

22 - 11/01/2022: Wheat, silage, boot stage

22

Sample and source description: 22

Sample date: 05/25/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 68.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	10,200.00	1,000.00	6,800.00		0.00
<b>DL</b>	100.00	100.00	100.00		1.00

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

24 - 11/01/2022: Wheat, silage, boot stage

24

Sample and source description: 24

Sample date: 05/25/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 64.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	9,400.00	1,300.00	6,300.00		0.00
DL	100.00	100.00	100.00		1.00

3 - 11/01/2022: Wheat, silage, boot stage

3

Sample and source description: 3

Sample date: 05/25/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 63.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	12,500.00	1,200.00	5,400.00		0.00
DL	100.00	100.00	100.00		1.00

3 - 06/01/2023: Corn, silage

3

Sample and source description: 3

Sample date: 12/08/2023 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	16,000.00	2,000.00	9,200.00		5.68
DL	100.00	100.00	100.00		1.00

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

4 - 11/01/2022: Wheat, silage, boot stage

4

Sample and source description: 4

Sample date: 05/25/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 64.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	11,500.00	1,300.00	6,400.00		0.00
<b>DL</b>	100.00	100.00	100.00		1.00

4 - 06/01/2023: Corn, silage

4

Sample and source description: 4

Sample date: 12/08/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 65.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	16,400.00	1,800.00	13,600.00		6.24
<b>DL</b>	100.00	100.00	100.00		1.00

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

5

Sample and source description: 5

Sample date: 05/25/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 61.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	11,200.00	1,300.00	6,700.00		0.00
<b>DL</b>	100.00	100.00	100.00		1.00

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

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

5 - 06/01/2023: Corn, silage

5

Sample and source description: 5

Sample date: 12/08/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 65.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	15,200.00	1,800.00	14,100.00		5.83
DL	100.00	100.00	100.00		1.00

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

6

Sample and source description: 6

Sample date: 05/25/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 60.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	12,700.00	1,300.00	99,800.00		0.00
DL	100.00	100.00	100.00		11.00

6 - 06/01/2023: Corn, silage

6

Sample and source description: 6

Sample date: 12/08/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 65.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	12,900.00	3,200.00	8,100.00		5.54
DL	100.00	100.00	100.00		1.00

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

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

7

Sample and source description: 7

Sample date: 05/25/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 62.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	10,700.00	1,300.00	9,800.00		0.00
DL	100.00	100.00	100.00		1.00

7 - 06/01/2023: Corn, silage

7

Sample and source description: 7

Sample date: 12/08/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 66.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	12,800.00	2,000.00	9,700.00		6.27
DL	100.00	100.00	100.00		1.00

**F. SUBSURFACE (TILE) DRAINAGE ANALYSES***No subsurface (tile) drainage analyses entered.*

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

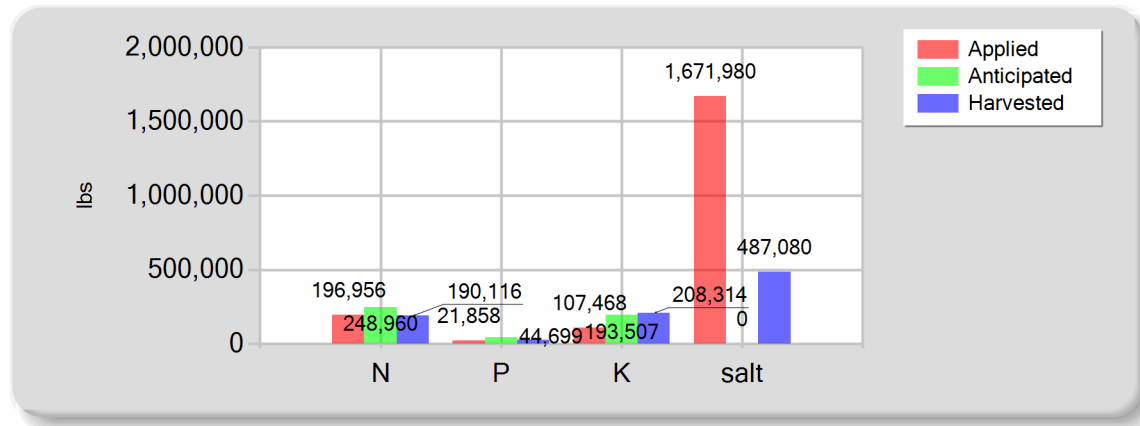
Reporting period 01/01/2023 to 12/31/2023.

**NUTRIENT APPLICATIONS, POTENTIAL REMOVAL, AND BALANCE**

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

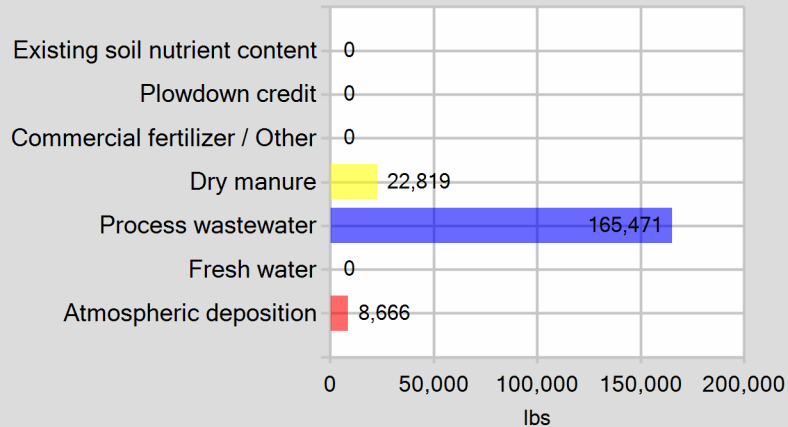
	Total N (lbs)	Total P (lbs)	Total K (lbs)	Total salt (lbs)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	22,819.00	12,250.20	52,363.60	1,187,237.50
Process wastewater	165,470.59	9,607.80	55,104.16	429,728.47
Fresh water	0.00	0.00	0.00	55,013.89
Atmospheric deposition	8,666.00	0.00	0.00	0.00
Total nutrients applied	196,955.59	21,858.00	107,467.76	1,671,979.86
Anticipated crop nutrient removal	248,960.00	44,699.20	193,507.20	0.00
Actual crop nutrient removal	190,116.11	25,899.34	208,314.38	487,080.36
Nutrient balance	6,839.48	-4,041.34	-100,846.61	1,184,899.51
Applied to removed ratio	1.04	0.84	0.52	3.43

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

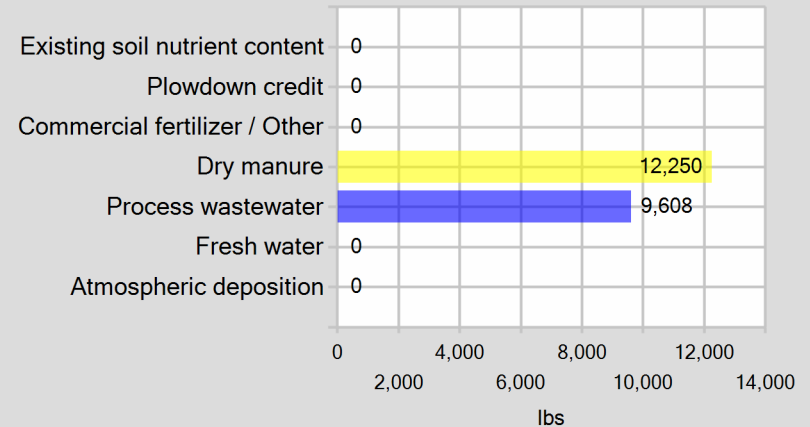


## C. POUNDS OF NUTRIENT APPLIED BY MATERIAL TYPE

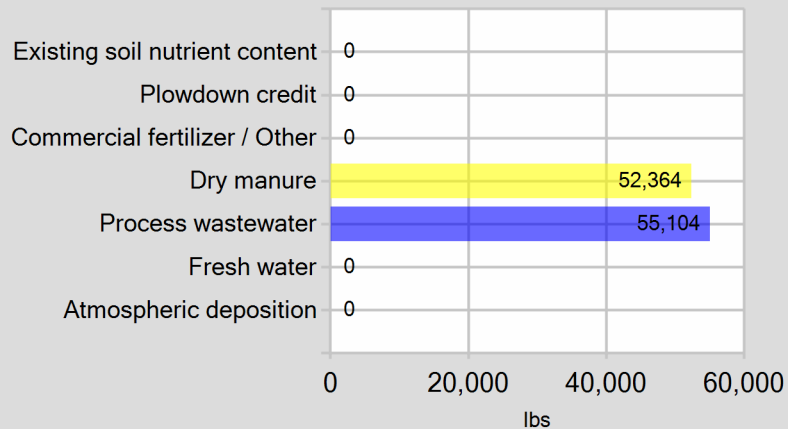
Pounds of nitrogen applied



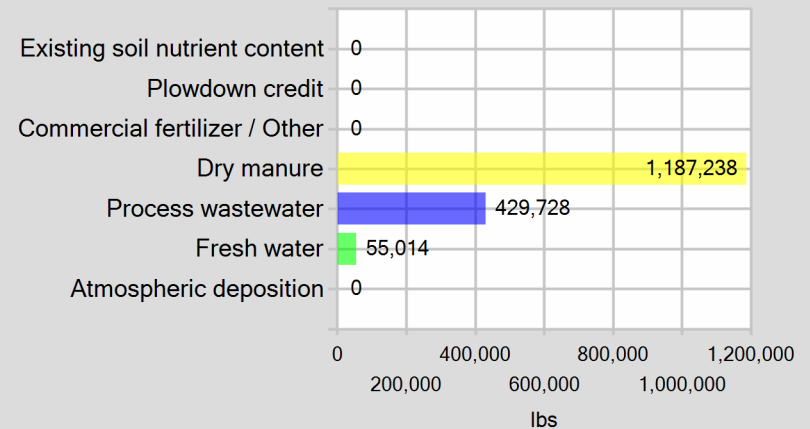
Pounds of phosphorus applied



Pounds of potassium applied



Pounds of salt applied



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

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

**EXCEPTION REPORTING**

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

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

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

**B. STORM WATER DISCHARGES**

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

*No stormwater discharges occurred during the reporting period.*

**C. LAND APPLICATION AREA TO SURFACE WATER DISCHARGES**

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

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

**NUTRIENT MANAGEMENT PLAN AND EXPORT AGREEMENT STATEMENTS**

**A. NUTRIENT MANAGEMENT PLAN STATEMENTS**

Was the facility's NMP updated in the reporting period? 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**

All of the wells that were sampled came out negative for Ammonia which we tested onsite with a test strip .

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

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

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

**CERTIFICATION**

**A. OWNER AND/OR OPERATOR CERTIFICATION**

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

SIGNATURE OF OWNER OF FACILITY

Jim Wilson

PRINT OR TYPE NAME

6/25/24

DATE

SIGNATURE OF OPERATOR OF FACILITY

SAME AS OWNER

PRINT OR TYPE NAME

DATE

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

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

**ATTACHMENTS**

**A. REQUIRED ATTACHMENTS**

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

**Annual Dairy Facility Assessment**

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

**Manure/Process Wastewater Tracking Manifests**

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

**Corrective Actions Documents**

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

**Groundwater Monitoring**

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

**Storm Water Monitoring**

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

J & D Wilson Dairy #2  
960 N. San Antonio Rd Suite 114  
Los Altos, CA 94022

Account# 00-0025816  
Account Manager: Ben Nydam  
Submitted By: Christina Medeiros

Received: 12/13/2023 7:00  
Reported: 12/20/2023 13:30

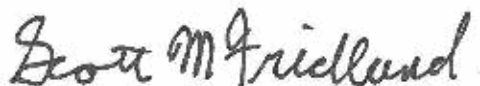
## Samples in this Report

Lab ID	Sample	Matrix	Sampled By	Crop	Date Sampled
23L0728-01	Barn	Ag Water	Medeiros		12/12/2023 10:25

Default Cooler      Temperature on Receipt °C: 15.1  
Containers Intact  
COC/Labels Agree  
Received On Ice

## Notes and Definitions

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



Laboratory Director/Technical Manager

ELAP Certification #1595  
A2LA Certification #6440.02

J & D Wilson Dairy #2  
960 N. San Antonio Rd Suite 114  
Los Altos, CA 94022

Account# 00-0025816  
Account Manager: Ben Nydam  
Submitted By: Christina Medeiros

Received: 12/13/2023 7:00  
Reported: 12/20/2023 13:30

### Sample Results

**Sample: Barn**  
**23L0728-01 (Water)**

Sampled: 12/12/2023 10:25  
Sampled By: Medeiros

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
<b>Electrical Conductivity</b>	<b>0.24</b>	mmhos/cm	0.01	1		12/13/23 18:40	SM 2510 B		BEL0587
<b>Electrical Conductivity umhos</b>	<b>237</b>	umhos/cm	10.0	1		12/13/23 18:40	SM 2510 B		BEL0587
Ammonia (as N)	ND	mg/L	0.00	1		12/12/23 10:25	Field		BEL0537
Nitrate Nitrogen as NO3N	ND	mg/L	0.1	1	10	12/14/23 07:03	EPA 300.0		BEL0446
<b>Temperature</b>	<b>25.0</b>	units	0.0	1		12/13/23 18:40	SM 4500-H+	H	BEL0587
<b>pH</b>	<b>9.3</b>	units	1.0	1		12/13/23 18:40	SM 4500-H+	H	BEL0587

J & D Wilson Dairy #2  
960 N. San Antonio Rd Suite 114  
Los Altos, CA 94022

Account# 00-0025816  
Account Manager: Ben Nydam  
Submitted By: Christina Medeiros

Received: 12/13/2023 7:00  
Reported: 12/20/2023 13:30

### Quality Control

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Batch: BEL0446</b>									
<b>Blank (BEL0446-BLK1)</b>				Prepared & Analyzed: 12/13/2023					
Nitrate Nitrogen as NO3N	ND	0.1	mg/L						
<b>Blank (BEL0446-BLK2)</b>				Prepared & Analyzed: 12/13/2023					
Nitrate Nitrogen as NO3N	ND	0.1	mg/L						
<b>Blank (BEL0446-BLK3)</b>				Prepared & Analyzed: 12/14/2023					
Nitrate Nitrogen as NO3N	ND	0.1	mg/L						
<b>Blank (BEL0446-BLK4)</b>				Prepared & Analyzed: 12/14/2023					
Nitrate Nitrogen as NO3N	ND	0.1	mg/L						
<b>Blank (BEL0446-BLK5)</b>				Prepared & Analyzed: 12/14/2023					
Nitrate Nitrogen as NO3N	ND	0.1	mg/L						
<b>LCS (BEL0446-BS1)</b>				Prepared & Analyzed: 12/13/2023					
Nitrate Nitrogen as NO3N	4.8	0.1	mg/L	5.000		95.9	90-110		
<b>LCS (BEL0446-BS2)</b>				Prepared & Analyzed: 12/14/2023					
Nitrate Nitrogen as NO3N	4.9	0.1	mg/L	5.000		97.9	90-110		
<b>LCS (BEL0446-BS3)</b>				Prepared & Analyzed: 12/14/2023					
Nitrate Nitrogen as NO3N	5.0	0.1	mg/L	5.000		99.7	90-110		
<b>LCS (BEL0446-BS4)</b>				Prepared & Analyzed: 12/14/2023					
Nitrate Nitrogen as NO3N	4.9	0.1	mg/L	5.000		97.9	90-110		
<b>Duplicate (BEL0446-DUP1)</b>				<b>Source: 23L0776-07</b>		Prepared & Analyzed: 12/13/2023			
Nitrate Nitrogen as NO3N	7.7	0.1	mg/L		7.6			1.53	10
<b>Duplicate (BEL0446-DUP2)</b>				<b>Source: 23L0778-01</b>		Prepared & Analyzed: 12/14/2023			
Nitrate Nitrogen as NO3N	0.6	0.1	mg/L		0.5			1.99	10
<b>Duplicate (BEL0446-DUP3)</b>				<b>Source: 23L0691-01</b>		Prepared & Analyzed: 12/14/2023			
Nitrate Nitrogen as NO3N	0.02	0.1	mg/L		0.02				10
<b>Duplicate (BEL0446-DUP4)</b>				<b>Source: 23L0774-09</b>		Prepared & Analyzed: 12/14/2023			
Nitrate Nitrogen as NO3N	0.04	0.1	mg/L		0.03			5.71	10
<b>Matrix Spike (BEL0446-MS1)</b>				<b>Source: 23L0776-07</b>		Prepared & Analyzed: 12/13/2023			
Nitrate Nitrogen as NO3N	12.7	0.1	mg/L	5.000	7.6	102	90-110		
<b>Matrix Spike (BEL0446-MS2)</b>				<b>Source: 23L0778-01</b>		Prepared & Analyzed: 12/14/2023			
Nitrate Nitrogen as NO3N	5.3	0.1	mg/L	5.000	0.5	95.6	90-110		

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J & D Wilson Dairy #2  
960 N. San Antonio Rd Suite 114  
Los Altos, CA 94022

Account# 00-0025816  
Account Manager: Ben Nydam  
Submitted By: Christina Medeiros

Received: 12/13/2023 7:00  
Reported: 12/20/2023 13:30

### Quality Control (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Batch: BEL0446 (Continued)</b>									
<b>Matrix Spike (BEL0446-MS3)</b>		<b>Source: 23L0691-01</b>			Prepared & Analyzed: 12/14/2023				
Nitrate Nitrogen as NO3N	4.8	0.1	mg/L	5.000	0.02	96.5	90-110		
<b>Matrix Spike (BEL0446-MS4)</b>		<b>Source: 23L0774-09</b>			Prepared & Analyzed: 12/14/2023				
Nitrate Nitrogen as NO3N	4.8	0.1	mg/L	5.000	0.03	95.8	90-110		
<b>Reference (BEL0446-SRM1)</b>					Prepared & Analyzed: 12/13/2023				
Nitrate Nitrogen as NO3N	9.7		mg/L	10.00		96.9	90-110		
<b>Reference (BEL0446-SRM2)</b>					Prepared & Analyzed: 12/13/2023				
Nitrate Nitrogen as NO3N	9.6		mg/L	10.00		96.5	90-110		
<b>Reference (BEL0446-SRM3)</b>					Prepared & Analyzed: 12/14/2023				
Nitrate Nitrogen as NO3N	9.7		mg/L	10.00		96.5	90-110		
<b>Reference (BEL0446-SRM4)</b>					Prepared & Analyzed: 12/14/2023				
Nitrate Nitrogen as NO3N	9.8		mg/L	10.00		98.1	90-110		
<b>Reference (BEL0446-SRM5)</b>					Prepared & Analyzed: 12/14/2023				
Nitrate Nitrogen as NO3N	9.6		mg/L	10.00		95.6	90-110		

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J & D Wilson Dairy #2  
960 N. San Antonio Rd Suite 114  
Los Altos, CA 94022

Account# 00-0025816  
Account Manager: Ben Nydam  
Submitted By: Christina Medeiros

Received: 12/13/2023 7:00  
Reported: 12/20/2023 13:30

### Quality Control (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Batch: BEL0587</b>									
<b>Blank (BEL0587-BLK1)</b>				Prepared & Analyzed: 12/13/2023					
Electrical Conductivity	ND	0.01	mmhos/cm						
Temperature	25.0	0.0	units						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
pH	5.5	1.0	units						
<b>Blank (BEL0587-BLK2)</b>				Prepared & Analyzed: 12/13/2023					
Electrical Conductivity	ND	0.01	mmhos/cm						
Temperature	25.0	0.0	units						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
pH	7.3	1.0	units						
<b>Blank (BEL0587-BLK3)</b>				Prepared & Analyzed: 12/13/2023					
Electrical Conductivity	ND	0.01	mmhos/cm						
Temperature	25.0	0.0	units						
pH	7.7	1.0	units						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
<b>Duplicate (BEL0587-DUP1)</b>				<b>Source: 23L0731-02</b>		Prepared & Analyzed: 12/13/2023			
Electrical Conductivity	0.34	0.01	mmhos/cm		0.33			0.509	10
pH	7.2	1.0	units		7.3			1.66	10
Electrical Conductivity umhos	335	10.0	umhos/cm		333			0.509	10
<b>Duplicate (BEL0587-DUP2)</b>				<b>Source: 23L0737-03</b>		Prepared & Analyzed: 12/13/2023			
Electrical Conductivity	0.68	0.01	mmhos/cm		0.66			3.31	10
Electrical Conductivity umhos	682	10.0	umhos/cm		659			3.31	10
pH	8.3	1.0	units		8.3			0.00	10
<b>Reference (BEL0587-SRM1)</b>				Prepared & Analyzed: 12/13/2023					
Electrical Conductivity	448		umhos/cm	426.0		105	90-110		
<b>Reference (BEL0587-SRM2)</b>				Prepared & Analyzed: 12/13/2023					
pH	7.5		units	7.520		100	67021-101.3;		
<b>Reference (BEL0587-SRM3)</b>				Prepared & Analyzed: 12/13/2023					
Electrical Conductivity	1080		umhos/cm	1000		108	90-110		
Electrical Conductivity umhos	1080		umhos/cm	1000		108	90-110		
<b>Reference (BEL0587-SRM4)</b>				Prepared & Analyzed: 12/13/2023					
Electrical Conductivity	1070		umhos/cm	1000		107	90-110		
Electrical Conductivity umhos	1070		umhos/cm	1000		107	90-110		
<b>Reference (BEL0587-SRM5)</b>				Prepared & Analyzed: 12/13/2023					
Electrical Conductivity	1060		umhos/cm	1000		106	90-110		

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J & D Wilson Dairy #2  
960 N. San Antonio Rd Suite 114  
Los Altos, CA 94022

Account# 00-0025816  
Account Manager: Ben Nydam  
Submitted By: Christina Medeiros

Received: 12/13/2023 7:00  
Reported: 12/20/2023 13:30

### Quality Control (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Batch: BEL0587 (Continued)</b>									
<b>Reference (BEL0587-SRM5)</b>				Prepared & Analyzed: 12/13/2023					
Electrical Conductivity umhos	1060		umhos/cm	1000		106	90-110		
<b>Reference (BEL0587-SRM6)</b>				Prepared & Analyzed: 12/13/2023					
pH	4.0		units	4.000		101	97.5-102.5		
<b>Reference (BEL0587-SRM7)</b>				Prepared & Analyzed: 12/13/2023					
pH	4.0		units	4.000		101	97.5-102.5		
<b>Reference (BEL0587-SRM8)</b>				Prepared & Analyzed: 12/13/2023					
pH	4.0		units	4.000		100	97.5-102.5		

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12/13/23 07:00

23L0728

JG

**DELLAVALLE LABORATORY, INC.**

1910 W. McKinley Avenue, Suite 110 • Fresno, CA 93728

www.dellavallelab.com 559 233-6129 • 800 228-9896 • Fax 559 268-8174

Bill To: Acct No. 25816 Cons. 8

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

Client **J&D Wilson Dairy #2**  
Address 960 N. San Antonio Rd Suite 114  
City, State, Zip Los Altos, CA 94022  
Email wilsonriverdale@aol.comCopy to: mel\_tinamedeiros@yahoo.comRequested by/Cell: Christina Medeiros/ 559-903-2490

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

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

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

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

No. of Samples \_\_\_\_\_ No. Bottles \_\_\_\_\_  
Water Type: ☒ Ag Water ☐ Drinking  
☐ Supply Water ☐ Ground Water  
☐ Other ☐ Wastewater  
☐ Mon. Well**Analysis and Bottles Required: (Please Indicate Analysis)**

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

☐ Other

Date Sampled	Time Sampled	Field NH <sub>4</sub> -N (mg/L)	Received Temp °C
<u>12/12/23</u>	<u>10:58am</u>	<u>0</u>	<u>15.1/-0.3</u>
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

IR Thermometer SN: 200560723  
Correction Factor: 0°C  
Calibration Due: 03/06/2024  
Location: Laboratory

IR Thermometer SN: 221511276  
Correction Factor: 0°C  
Calibration Due: 03/06/2024  
Location: Hanford

**CHAIN OF CUSTODY**

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First	<u>[Signature]</u>	<u>OU</u>	<u>12/12/23 11:32am</u>	<u>12/12/23 11:32am</u>
Second	<u>[Signature]</u>	<u>OU</u>	<u>12/12/23 11:32am</u>	_____
Third	<u>[Signature]</u>	<u>OU</u>	<u>12/13 07:00</u>	_____
Fourth	<u>[Signature]</u>	<u>OU</u>	<u>12/13 07:00</u>	_____

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

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

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

Signature \_\_\_\_\_

Sample received in cooler with ice?

[ ] Yes [ ] No

ett:update 2020



12/13/23 07:00

23L0728

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





12/13/23 07:00

23L0728

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

J & D Wilson Dairy  
960 N. San Antonio Rd Suite 114  
Los Altos, CA 94022

Account# 00-0025817  
Account Manager: Ben Nydam  
Submitted By: Christina Medeiros

Received: 08/17/2023 8:39  
Reported: 08/21/2023 15:23

## Samples in this Report

Lab ID	Sample	Matrix	Sampled By	Crop	Date Sampled
23H1607-01	Canal	Ag Water			08/16/2023 15:30

Default Cooler      Temperature on Receipt °C: 1.3  
Containers Intact  
COC/Labels Agree  
Received On Ice

## Notes and Definitions

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



Laboratory Director/Technical Manager

ELAP Certification #1595  
A2LA Certification #6440.02



J & D Wilson Dairy  
960 N. San Antonio Rd Suite 114  
Los Altos, CA 94022

Account# 00-0025817  
Account Manager: Ben Nydam  
Submitted By: Christina Medeiros

Received: 08/17/2023 8:39  
Reported: 08/21/2023 15:23

### Sample Results

**Sample: Canal**  
**23H1607-01 (Water)**

Sampled: 8/16/2023 15:30

Sampled By:

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
<b>Electrical Conductivity</b>	<b>0.02</b>	mmhos/cm	0.01	1		08/18/23 17:58	SM 2510 B		BEH0919
Nitrate Nitrogen as NO3N	ND	mg/L	0.1	1	10	08/18/23 13:51	EPA 300.0		BEH0887

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

J & D Wilson Dairy  
960 N. San Antonio Rd Suite 114  
Los Altos, CA 94022

Account# 00-0025817  
Account Manager: Ben Nydam  
Submitted By: Christina Medeiros

Received: 08/17/2023 8:39  
Reported: 08/21/2023 15:23

## Quality Control

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	
<b>Batch: BEH0887</b>										
<b>Blank (BEH0887-BLK1)</b>				Prepared: 8/17/2023 Analyzed: 8/18/2023						
Nitrate Nitrogen as NO3N	ND	0.1	mg/L							
<b>Blank (BEH0887-BLK2)</b>				Prepared: 8/17/2023 Analyzed: 8/18/2023						
Nitrate Nitrogen as NO3N	ND	0.1	mg/L							
<b>LCS (BEH0887-BS1)</b>				Prepared: 8/17/2023 Analyzed: 8/18/2023						
Nitrate Nitrogen as NO3N	5.1	0.1	mg/L	5.000		102	90-110			
<b>Duplicate (BEH0887-DUP1)</b>				Prepared: 8/17/2023 Analyzed: 8/18/2023						
Nitrate Nitrogen as NO3N	0.7	0.1	mg/L		0.7				0.151	10
<b>Matrix Spike (BEH0887-MS1)</b>				Prepared: 8/17/2023 Analyzed: 8/18/2023						
Nitrate Nitrogen as NO3N	6.0	0.1	mg/L	5.000	0.7	106	90-110			
<b>Reference (BEH0887-SRM1)</b>				Prepared: 8/17/2023 Analyzed: 8/18/2023						
Nitrate Nitrogen as NO3N	10.2		mg/L	10.00		102	90-110			
<b>Reference (BEH0887-SRM2)</b>				Prepared: 8/17/2023 Analyzed: 8/18/2023						
Nitrate Nitrogen as NO3N	10.2		mg/L	10.00		102	90-110			

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### Quality Control (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Batch: BEH0919</b>									
<b>Blank (BEH0919-BLK1)</b>									
Electrical Conductivity	ND	0.01	mmhos/cm		Prepared: 8/17/2023	Analyzed: 8/18/2023			
<b>Blank (BEH0919-BLK2)</b>									
Electrical Conductivity	ND	0.01	mmhos/cm		Prepared: 8/17/2023	Analyzed: 8/18/2023			
<b>Blank (BEH0919-BLK3)</b>									
Electrical Conductivity	ND	0.01	mmhos/cm		Prepared: 8/17/2023	Analyzed: 8/18/2023			
<b>Duplicate (BEH0919-DUP1)</b>									
Electrical Conductivity	0.02	0.01	mmhos/cm		Prepared: 8/17/2023	Analyzed: 8/18/2023		6.30	10
<b>Duplicate (BEH0919-DUP2)</b>									
Electrical Conductivity	0.47	0.01	mmhos/cm		Prepared: 8/17/2023	Analyzed: 8/18/2023		0.466	10
<b>Reference (BEH0919-SRM1)</b>									
Electrical Conductivity	517		umhos/cm	538.0	Prepared: 8/17/2023	Analyzed: 8/18/2023	96.1	90-110	
<b>Reference (BEH0919-SRM3)</b>									
Electrical Conductivity	981		umhos/cm	1000	Prepared: 8/17/2023	Analyzed: 8/18/2023	98.1	90-110	
<b>Reference (BEH0919-SRM4)</b>									
Electrical Conductivity	990		umhos/cm	1000	Prepared: 8/17/2023	Analyzed: 8/18/2023	99.0	90-110	
<b>Reference (BEH0919-SRM5)</b>									
Electrical Conductivity	994		umhos/cm	1000	Prepared: 8/17/2023	Analyzed: 8/18/2023	99.4	90-110	

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08/17/23 08:39

2 JH1607

P/V

## WATER WORK REQUEST

Bill To: Acct No. 25817 Cons. 8

Purchase Order No. Results Needed By

Client **J&D Wilson Dairy**  
Address 960 N. San Antonio Rd Suite 114  
City, State, Zip Los Altos, CA 94022  
Email wilsonriverdale@aol.com

Copy to: mel\_tinamedeiros@yahoo.com

Requested by/Cell: Christina Medeiros/ 559-903-2490

Facility:

Date sampled

Sampled by

☒ QA/QC Document ☒ Copy of Chain ☐ RWQCB

## DESCRIPTION OF SAMPLES

1. Canal	Sampled From:
2.	Sampled From:
3.	Sampled From:
4.	Sampled From:
5.	Sampled From:
6.	Sampled From:
7.	Sampled From:
8.	Sampled From:
9.	Sampled From:
10.	Sampled From:

## DELLAVALLE LABORATORY, INC.

1910 W. McKinley Avenue, Suite 110 • Fresno, CA 93728  
www.dellavallelab.com 559 233-6125 • 800 228-9896 • Fax 559 268-8174

No. of Samples No. Bottles

Water Type: ☒ Ag Water ☐ Drinking ☐ Wastewater  
☐ Supply Water ☐ Ground Water ☐ Mon. Well  
☐ Other

## Analysis and Bottles Required: (Please Indicate Analysis)

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

☐ Other

Date Sampled	Time Sampled	Field NH <sub>4</sub> -N (mg/L)	Received Temp °C
8/16/23	3:30m		1.3

## CHAIN OF CUSTODY

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First		Medeiros		8/16/23 4:35m
Second		DLF	8/16/23 4:35pm	8/16/23
Third	MM	DLI	8/17/23 8:39	
Fourth				

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

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

Invoicing Information: Medeiros Pricing 2023

Sampling Hrs Miles Consulting

Shipping

\$ In Out

Amnt Paid Rec By Check No. Date

Signature

Sample received in cooler with ice?

☐ Yes ☐ No

citt: update 2020

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



08/17/23 08:39

23H1607

MV

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