

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:** Jaques & Silva Dairy

Physical address of dairy:

10536 6th AVE
Number and StreetHanford
CityKings
County93230
Zip Code

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

Date facility was originally placed in operation: 06/01/1962Regional Water Quality Control Board Basin Plan designation: Tulare Basin

County Assessor Parcel Number(s) for dairy facility:

B. OPERATORS

Jaques, John

Operator name: Jaques, JohnTelephone no.: (951) 218-6935Landline Cellular10536 6th AVEHanfordCA93230

Mailing Address Number and Street

City

State

Zip Code

This operator is responsible for paying permit fees.

Silva, John

Operator name: Silva, JohnTelephone no.: (951) 314-2414Landline Cellular10536 6th AVEHanfordCA93230

Mailing Address Number and Street

City

State

Zip Code

C. OWNERS

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

Jaques, John

Legal owner name: <u>Jaques, John</u>	Telephone no.: <u>(951) 218-6935</u>
	Landline Cellular
<u>10536 6th AVE</u>	<u>Hanford</u>
Mailing Address Number and Street	City
	CA 93230
	State Zip Code

This owner is responsible for paying permit fees.

Silva, John

Legal owner name: <u>Silva, John</u>	Telephone no.: <u>(951) 314-2414</u>
	Landline Cellular
<u>10536 6th AVE</u>	<u>Hanford</u>
Mailing Address Number and Street	City
	CA 93230
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Annual Report - General Order No. R5-2007-0035

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

AVAILABLE NUTRIENTS

A. HERD INFORMATION

	Milk Cows	Dry Cows	Bred Heifers (15-24 mo.)	Heifers (7-14 mo. to breeding)	Calves (4-6 mo.)	Calves (0-3 mo.)
Number open confinement	0	185	305	220	150	0
Number under roof	1,215	0	0	0	0	0
Maximum number	1,215	185	305	220	150	0
Average number	1,215	185	305	220	150	0
Avg live weight (lbs)	1,200	1,300	1,000	800		

Predominant milk cow breed: Holstein

Average milk production: 68 pounds per cow per day

B. MANURE GENERATED

Total manure excreted by the herd: 39,334.88 tons per reporting period

Total nitrogen from manure: 495,008.08 lbs per reporting period

After ammonia losses (30% loss applied): 346,505.66 lbs per reporting period

Total phosphorus from manure: 81,729.63 lbs per reporting period

Total potassium from manure: 231,087.20 lbs per reporting period

Total salt from manure: 614,623.50 lbs per reporting period

C. PROCESS WASTEWATER GENERATED

Process wastewater generated: 50,276,000 gallons

Total nitrogen generated: 183,645.83 lbs

Total phosphorus generated: 14,220.44 lbs

Total potassium generated: 1,028,887.09 lbs

Total salt generated: 1,001,317.55 lbs

50,276,000 gallons applied
+ 0 gallons exported
- 0 gallons imported
= 50,276,000 gallons generated

D. FRESH WATER SOURCES

Source Description	Type
Barn	Surface water
Canal	Surface water
D2	Ground water

Annual Report - General Order No. R5-2007-0035*Reporting period 01/01/2023 to 12/31/2023.***E. SUBSURFACE (TILE) DRAINAGE SOURCES***No subsurface (tile) drainage sources entered.***F. NUTRIENT IMPORTS***No dry manure nutrient imports entered.**No process wastewater nutrient imports entered.**No commercial or other nutrient imports entered.***G. NUTRIENT EXPORTS**

Date	Material type	Quantity	Reporting basis	Moisture (%)	Density (lbs/cu ft)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/28/2023	Corral solids	3,200.00 <i>ton</i>	Dry-weight	28.2		15,200.00	4,900.00	16,700.00		54.80

No liquid nutrient exports entered.

Material type	Total N (lbs)	Total P (lbs)	Total K (lbs)	Total salt (lbs)
Dry manure	69,847.04	22,516.48	76,739.84	2,518,169.60
Process wastewater	0.00	0.00	0.00	0.00
Total exports for all materials	69,847.04	22,516.48	76,739.84	2,518,169.60

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

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

APPLICATION AREA

A. LIST OF LAND APPLICATION AREAS

Field name	Controlled acres	Cropable acres	Total harvests	Type of waste applied	Parcel number
1	13	13	2	process wastewater	0016-0070-0096-0000 0016-0070-0097-0000
10	50	50	2	process wastewater	0016-0070-0102-0000
11	55	55	2	process wastewater	0016-0070-0102-0000
2	12	11	2	process wastewater	0016-0070-0097-0000
3 & 4	63	63	2	process wastewater	0016-0070-0077-0000 0016-0070-0098-0000 0016-0070-0099-0000
5	27	27	2	process wastewater	0016-0070-0021-0000
6	30	30	2	process wastewater	0016-0070-0021-0000
7	21	21	2	process wastewater	0016-0070-0026-0000
8	19	19	2	process wastewater	0016-0070-0026-0000
Totals for areas that were used for application	290	289	18		
Totals for areas that were not used for application					
Land application area totals	290	289	18		

B. CROPS AND HARVESTS

1

Field name: 1

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

Crop: Wheat, silage, boot stage Acres planted: 13 Plant date: 11/01/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/09/2023	208.00 ton	Dry-weight		61.5	12,600.00	5,300.00	25,100.00		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	16.00	155.23	65.30	309.23	0.00

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

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

1

06/01/2023: Corn, silage

Crop: Corn, silage

Acres planted: 13 Plant date: 06/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/15/2023	338.00 ton	Dry-weight		56.5	16,200.00	3,000.00	23,100.00		6.87

	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	26.00	366.44	67.86	522.52	1,553.99

10

Field name: 10

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

Crop: Wheat, silage, boot stage

Acres 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 (%)
05/09/2023	800.00 ton	Dry-weight		72.2	18,400.00	4,700.00	30,400.00		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	16.00	163.69	41.81	270.44	0.00

06/01/2023: Corn, silage

Crop: Corn, silage

Acres 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 (%)
09/15/2023	1,300.00 ton	Dry-weight		68.8	18,100.00	2,400.00	21,900.00		6.21

	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	26.00	293.65	38.94	355.31	1,007.51

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

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

11

Field name: 11

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

Crop: Wheat, silage, boot stage

Acres planted: 55 Plant date: 11/01/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/09/2023	883.00 <i>ton</i>	Dry-weight		54.5	15,000.00	4,000.00	28,100.00		32.70

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	256.00	44.80	192.00	0.00
Total actual harvest content	16.05	219.14	58.44	410.53	4,777.35

06/01/2023: Corn, silage

Crop: Corn, silage

Acres planted: 55 Plant date: 06/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/15/2023	1,430.00 <i>ton</i>	Dry-weight		69.3	18,100.00	3,000.00	20,700.00		6.52

	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	26.00	288.95	47.89	330.45	1,040.85

2

Field name: 2

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

Crop: Wheat, silage, boot stage

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

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/09/2023	176.00 <i>ton</i>	Dry-weight		67.8	22,600.00	4,200.00	25,200.00		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	16.00	232.87	43.28	259.66	0.00

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

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

2

06/01/2023: Corn, silage

Crop: Corn, silage

Acres planted: 11 Plant date: 06/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/15/2023	286.00 ton	Dry-weight		65.1	20,300.00	3,100.00	23,100.00		7.60

	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	26.00	368.40	56.26	419.22	1,379.25

3 & 4

Field name: 3 & 4

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

Crop: Wheat, silage, boot stage

Acres planted: 63 Plant date: 11/01/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/09/2023	1,011.30 ton	Dry-weight		47.6	21,300.00	3,700.00	20,900.00		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	16.05	358.33	62.24	351.60	0.00

06/01/2023: Corn, silage

Crop: Corn, silage

Acres planted: 63 Plant date: 06/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/15/2023	1,638.10 ton	Dry-weight		68.3	17,500.00	2,500.00	21,100.00		6.48

	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	26.00	288.49	41.21	347.83	1,068.23

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

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

5

Field name: 5

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

Crop: Wheat, silage, boot stage

Acres planted: 27 Plant date: 11/01/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/09/2023	432.00 ton	Dry-weight		54.3	9,900.00	3,200.00	19,700.00		8.98

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	256.00	44.80	192.00	0.00
Total actual harvest content	16.00	144.78	46.80	288.09	1,313.24

06/01/2023: Corn, silage

Crop: Corn, silage

Acres planted: 27 Plant date: 06/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/15/2023	702.00 ton	Dry-weight		67.5	22,600.00	3,500.00	25,000.00		8.34

	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	26.00	381.94	59.15	422.50	1,409.46

6

Field name: 6

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 (%)
05/09/2023	495.00 ton	Dry-weight		47.4	11,300.00	3,200.00	24,000.00		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	16.50	196.15	55.55	416.59	0.00

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

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

6

06/01/2023: Corn, silage

Crop: Corn, silage Acres planted: 30 Plant date: 06/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/15/2023	780.00 ton	Dry-weight		68.9	20,200.00	3,000.00	30,900.00		9.13

	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	26.00	326.67	48.52	499.71	1,476.50

7

Field name: 7

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

Crop: Wheat, silage, boot stage Acres planted: 21 Plant date: 11/01/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/09/2023	342.20 ton	Dry-weight		65.7	12,700.00	2,700.00	17,200.00		6.55

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	256.00	44.80	192.00	0.00
Total actual harvest content	16.30	141.97	30.18	192.27	732.19

06/01/2023: Corn, silage

Crop: Corn, silage Acres planted: 21 Plant date: 06/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/15/2023	546.00 ton	Dry-weight		67.9	18,600.00	3,500.00	23,000.00		9.87

	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	26.00	310.47	58.42	383.92	1,647.50

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

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

8

Field name: 8

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

Crop: Wheat, silage, boot stage Acres planted: 19 Plant date: 11/01/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/09/2023	314.00 ton	Dry-weight		51.5	18,700.00	2,900.00	20,300.00		9.20

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	256.00	44.80	192.00	0.00
Total actual harvest content	16.53	299.77	46.49	325.42	1,474.81

06/01/2023: Corn, silage

Crop: Corn, silage Acres planted: 19 Plant date: 06/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/15/2023	511.00 ton	Dry-weight		66.8	18,500.00	3,200.00	25,500.00		9.53

	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	26.89	330.37	57.15	455.38	1,701.88

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

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

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	
12/21/2022	Surface (irrigation)	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
WW		Process wastewater	61.57	5.19	63.25	297.05	150,000.00 <i>gal</i>	
Application event totals			61.57	5.19	63.25	297.05		
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	
Canal		Surface water	0.00	0.00	0.00	11.55	1,500,000.00 <i>gal</i>	
Application event totals			0.00	0.00	0.00	11.55		
02/14/2023	Surface (irrigation)	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
WW		Process wastewater	61.57	5.19	63.25	297.05	150,000.00 <i>gal</i>	
Canal		Surface water	0.00	0.00	0.00	11.55	1,500,000.00 <i>gal</i>	
Application event totals			61.57	5.19	63.25	308.60		
03/16/2023	Surface (irrigation)	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
WW		Process wastewater	61.57	5.19	63.25	297.05	150,000.00 <i>gal</i>	
Canal		Surface water	0.00	0.00	0.00	11.55	1,500,000.00 <i>gal</i>	
Application event totals			61.57	5.19	63.25	308.60		

1 - 06/01/2023: Corn, silage

Field name: 1

Crop: Corn, silage

Plant date: 06/01/2023

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

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		
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	17.72	2,300,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	17.72	
07/08/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	108.36	6.95	53.84	418.50	650,000.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	17.72	2,300,000.00 <i>gal</i>
Application event totals		108.36	6.95	53.84	436.22	
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	17.72	2,300,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	17.72	
07/28/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	108.36	6.95	53.84	418.50	650,000.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	17.72	2,300,000.00 <i>gal</i>
Application event totals		108.36	6.95	53.84	436.22	
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	17.72	2,300,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	17.72	

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

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	229.15	18.48	3,230.35	1,671.50	650,000.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	17.72	2,300,000.00 <i>gal</i>
Application event totals		229.15	18.48	3,230.35	1,689.22	
08/28/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	17.72	2,300,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	17.72	

10 - 11/01/2022: Wheat, silage, boot stage

Field name: 10

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		
12/23/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	69.37	5.85	71.26	334.68	650,000.00 <i>gal</i>
Application event totals		69.37	5.85	71.26	334.68	
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
Canal	Surface water	0.00	0.00	0.00	6.61	3,300,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	6.61	

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

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

10 - 11/01/2022: Wheat, silage, boot stage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
02/18/2023	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	133.40	11.24	137.04	643.61	1,250,000.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	6.61	3,300,000.00 <i>gal</i>
Application event totals		133.40	11.24	137.04	650.22	
03/16/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	6.61	3,300,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	6.61	

10 - 06/01/2023: Corn, silage

Field name: 10

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	13.02	6,500,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	13.02	

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
Canal		Surface water	0.00	0.00	0.00	13.02	6,500,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	13.02	

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

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

10 - 06/01/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
07/20/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	69.35	4.45	34.46	267.84	1,600,000.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	13.02	6,500,000.00 <i>gal</i>
Application event totals		69.35	4.45	34.46	280.86	
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	69.35	4.45	34.46	267.84	1,600,000.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	13.02	6,500,000.00 <i>gal</i>
Application event totals		69.35	4.45	34.46	280.86	
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	69.35	4.45	34.46	267.84	1,600,000.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	13.02	6,500,000.00 <i>gal</i>
Application event totals		69.35	4.45	34.46	280.86	
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	146.66	11.83	2,067.42	1,069.76	1,600,000.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	13.02	6,500,000.00 <i>gal</i>
Application event totals		146.66	11.83	2,067.42	1,082.78	
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	13.02	6,500,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	13.02	

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

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

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

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

Field name: 11

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
12/22/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	55.79	4.70	57.31	269.15	575,000.00 gal
Application event totals		55.79	4.70	57.31	269.15	

01/18/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	84.89	7.15	87.21	409.57	875,000.00 gal
Canal	Surface water	0.00	0.00	0.00	5.46	3,000,000.00 gal
Application event totals		84.89	7.15	87.21	415.03	

02/16/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	72.91	5.88	1,027.84	531.84	875,000.00 gal
Canal	Surface water	0.00	0.00	0.00	5.46	3,000,000.00 gal
Application event totals		72.91	5.88	1,027.84	537.30	

03/18/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	72.91	5.88	1,027.84	531.84	875,000.00 gal
Canal	Surface water	0.00	0.00	0.00	5.46	3,000,000.00 gal
Application event totals		72.91	5.88	1,027.84	537.30	

11 - 06/01/2023: Corn, silage

Field name: 11

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.

11 - 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		
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	12.02	6,600,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	12.02	
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
Canal	Surface water	0.00	0.00	0.00	12.02	6,600,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	12.02	
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	71.08	4.56	35.32	274.54	1,804,000.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	12.02	6,600,000.00 <i>gal</i>
Application event totals		71.08	4.56	35.32	286.55	
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	71.08	4.56	35.32	274.54	1,804,000.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	12.02	6,600,000.00 <i>gal</i>
Application event totals		71.08	4.56	35.32	286.55	
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	71.08	4.56	35.32	274.54	1,804,000.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	12.02	6,600,000.00 <i>gal</i>
Application event totals		71.08	4.56	35.32	286.55	

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

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

11 - 06/01/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
08/20/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	150.32	12.12	2,119.11	1,096.51	1,804,000.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	12.02	6,600,000.00 <i>gal</i>
Application event totals		150.32	12.12	2,119.11	1,108.52	
08/30/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	12.02	6,600,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	12.02	

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		
12/28/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	147.95	12.47	151.99	713.82	305,000.00 <i>gal</i>
Application event totals		147.95	12.47	151.99	713.82	
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
Canal	Surface water	0.00	0.00	0.00	6.74	740,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	6.74	

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

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
02/21/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	147.95	12.47	151.99	713.82	305,000.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	6.74	740,000.00 <i>gal</i>
Application event totals		147.95	12.47	151.99	720.56	
03/18/2023	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	6.74	740,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	6.74	

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
07/02/2023	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	14.02	1,540,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	14.02	

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
Canal		Surface water	0.00	0.00	0.00	14.02	1,540,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	14.02	

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

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

2 - 06/01/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
07/22/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	93.58	6.00	46.50	361.43	475,000.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	14.02	1,540,000.00 <i>gal</i>
Application event totals		93.58	6.00	46.50	375.45	
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	93.58	6.00	46.50	361.43	475,000.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	14.02	1,540,000.00 <i>gal</i>
Application event totals		93.58	6.00	46.50	375.45	
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
WW	Process wastewater	93.58	6.00	46.50	361.43	475,000.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	14.02	1,540,000.00 <i>gal</i>
Application event totals		93.58	6.00	46.50	375.45	
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	156.24	12.60	2,202.51	1,139.66	375,000.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	14.02	1,540,000.00 <i>gal</i>
Application event totals		156.24	12.60	2,202.51	1,153.68	
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	14.02	1,540,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	14.02	

3 & 4 - 11/01/2022: Wheat, silage, boot stage

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

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

3 & 4 - 11/01/2022: Wheat, silage, boot stage

Field name: 3 & 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		
12/22/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	71.99	6.07	73.96	347.34	850,000.00 <i>gal</i>
Application event totals		71.99	6.07	73.96	347.34	
01/14/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	88.93	7.49	91.36	429.07	1,050,000.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	6.37	4,009,000.00 <i>gal</i>
Application event totals		88.93	7.49	91.36	435.44	
02/16/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	88.93	7.49	91.36	429.07	1,050,000.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	6.37	4,009,000.00 <i>gal</i>
Application event totals		88.93	7.49	91.36	435.44	
03/15/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	88.93	7.49	91.36	429.07	1,050,000.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	6.37	4,009,000.00 <i>gal</i>
Application event totals		88.93	7.49	91.36	435.44	

3 & 4 - 06/01/2023: Corn, silage

Field name: 3 & 4

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

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																												
<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>12.72</td><td>8,000,000.00 <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>12.72</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	12.72	8,000,000.00 <i>gal</i>	Application event totals		0.00	0.00	0.00	12.72								
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	12.72	8,000,000.00 <i>gal</i>																										
Application event totals		0.00	0.00	0.00	12.72																											
07/10/2023	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>54.87</td><td>3.52</td><td>27.26</td><td>211.91</td><td>1,595,000.00 <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>12.72</td><td>8,000,000.00 <i>gal</i></td></tr><tr><td>Application event totals</td><td></td><td>54.87</td><td>3.52</td><td>27.26</td><td>224.62</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	54.87	3.52	27.26	211.91	1,595,000.00 <i>gal</i>	Canal	Surface water	0.00	0.00	0.00	12.72	8,000,000.00 <i>gal</i>	Application event totals		54.87	3.52	27.26	224.62	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount																										
WW	Process wastewater	54.87	3.52	27.26	211.91	1,595,000.00 <i>gal</i>																										
Canal	Surface water	0.00	0.00	0.00	12.72	8,000,000.00 <i>gal</i>																										
Application event totals		54.87	3.52	27.26	224.62																											
07/20/2023	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>12.72</td><td>8,000,000.00 <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>12.72</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	12.72	8,000,000.00 <i>gal</i>	Application event totals		0.00	0.00	0.00	12.72								
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	12.72	8,000,000.00 <i>gal</i>																										
Application event totals		0.00	0.00	0.00	12.72																											
07/30/2023	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>54.87</td><td>3.52</td><td>27.26</td><td>211.91</td><td>1,595,000.00 <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>12.72</td><td>8,000,000.00 <i>gal</i></td></tr><tr><td>Application event totals</td><td></td><td>54.87</td><td>3.52</td><td>27.26</td><td>224.62</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	54.87	3.52	27.26	211.91	1,595,000.00 <i>gal</i>	Canal	Surface water	0.00	0.00	0.00	12.72	8,000,000.00 <i>gal</i>	Application event totals		54.87	3.52	27.26	224.62	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount																										
WW	Process wastewater	54.87	3.52	27.26	211.91	1,595,000.00 <i>gal</i>																										
Canal	Surface water	0.00	0.00	0.00	12.72	8,000,000.00 <i>gal</i>																										
Application event totals		54.87	3.52	27.26	224.62																											
08/10/2023	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>116.03</td><td>9.36</td><td>1,635.68</td><td>846.36</td><td>1,595,000.00 <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>12.72</td><td>8,000,000.00 <i>gal</i></td></tr><tr><td>Application event totals</td><td></td><td>116.03</td><td>9.36</td><td>1,635.68</td><td>859.08</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	116.03	9.36	1,635.68	846.36	1,595,000.00 <i>gal</i>	Canal	Surface water	0.00	0.00	0.00	12.72	8,000,000.00 <i>gal</i>	Application event totals		116.03	9.36	1,635.68	859.08	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount																										
WW	Process wastewater	116.03	9.36	1,635.68	846.36	1,595,000.00 <i>gal</i>																										
Canal	Surface water	0.00	0.00	0.00	12.72	8,000,000.00 <i>gal</i>																										
Application event totals		116.03	9.36	1,635.68	859.08																											

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

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

3 & 4 - 06/01/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
08/20/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	116.03	9.36	1,635.68	846.36	1,595,000.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	12.72	8,000,000.00 <i>gal</i>
Application event totals		116.03	9.36	1,635.68	859.08	
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	12.72	8,000,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	12.72	

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		
01/01/2023	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	83.99	7.08	86.29	405.23	425,000.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	4.08	1,100,000.00 <i>gal</i>
Application event totals		83.99	7.08	86.29	409.31	
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	4.08	1,100,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	4.08	

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

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	83.99	7.08	86.29	405.23	425,000.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	4.08	1,100,000.00 <i>gal</i>
Application event totals		83.99	7.08	86.29	409.31	
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	4.08	1,100,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	4.08	

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		
06/26/2023	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	13.46	3,630,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	13.46	

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	80.67	5.17	40.08	311.55	1,005,000.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	13.46	3,630,000.00 <i>gal</i>
Application event totals		80.67	5.17	40.08	325.01	

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

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		
07/16/2023	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	13.46	3,630,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	13.46	
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	80.67	5.17	40.08	311.55	1,005,000.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	13.46	3,630,000.00 <i>gal</i>
Application event totals		80.67	5.17	40.08	325.01	
08/06/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	80.67	5.17	40.08	311.55	1,005,000.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	13.46	3,630,000.00 <i>gal</i>
Application event totals		80.67	5.17	40.08	325.01	
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	170.59	13.76	2,404.82	1,244.34	1,005,000.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	13.46	3,630,000.00 <i>gal</i>
Application event totals		170.59	13.76	2,404.82	1,257.80	
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	13.46	3,630,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	13.46	

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		
01/24/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	128.95	10.87	132.47	622.15	725,000.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	7.44	2,230,000.00 <i>gal</i>
Application event totals		128.95	10.87	132.47	629.60	
02/23/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	7.44	2,230,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	7.44	
03/21/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	128.95	10.87	132.47	622.15	725,000.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	7.44	2,230,000.00 <i>gal</i>
Application event totals		128.95	10.87	132.47	629.60	

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		
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	14.12	4,230,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	14.12	

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																												
07/08/2023	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>14.12</td><td>4,230,000.00 <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>14.12</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	14.12	4,230,000.00 <i>gal</i>	Application event totals		0.00	0.00	0.00	14.12								
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	14.12	4,230,000.00 <i>gal</i>																										
Application event totals		0.00	0.00	0.00	14.12																											
07/18/2023	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>74.05</td><td>4.75</td><td>36.79</td><td>285.98</td><td>1,025,000.00 <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>14.12</td><td>4,230,000.00 <i>gal</i></td></tr><tr><td>Application event totals</td><td></td><td>74.05</td><td>4.75</td><td>36.79</td><td>300.10</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	74.05	4.75	36.79	285.98	1,025,000.00 <i>gal</i>	Canal	Surface water	0.00	0.00	0.00	14.12	4,230,000.00 <i>gal</i>	Application event totals		74.05	4.75	36.79	300.10	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount																										
WW	Process wastewater	74.05	4.75	36.79	285.98	1,025,000.00 <i>gal</i>																										
Canal	Surface water	0.00	0.00	0.00	14.12	4,230,000.00 <i>gal</i>																										
Application event totals		74.05	4.75	36.79	300.10																											
07/28/2023	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>14.12</td><td>4,230,000.00 <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>14.12</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	14.12	4,230,000.00 <i>gal</i>	Application event totals		0.00	0.00	0.00	14.12								
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	14.12	4,230,000.00 <i>gal</i>																										
Application event totals		0.00	0.00	0.00	14.12																											
08/08/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation																												
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount																										
WW	Process wastewater	156.59	12.63	2,207.41	1,142.19	1,025,000.00 <i>gal</i>																										
Canal	Surface water	0.00	0.00	0.00	14.12	4,230,000.00 <i>gal</i>																										
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount																										
WW	Process wastewater	156.59	12.63	2,207.41	1,142.19	1,025,000.00 <i>gal</i>																										
Canal	Surface water	0.00	0.00	0.00	14.12	4,230,000.00 <i>gal</i>																										
Application event totals		156.59	12.63	2,207.41	1,156.31																											

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		
08/28/2023	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	14.12	4,230,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	14.12	

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		
12/27/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	38.11	3.21	39.15	183.89	150,000.00 <i>gal</i>
Application event totals		38.11	3.21	39.15	183.89	
01/25/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	6.99	1,464,900.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	6.99	
02/24/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	114.34	9.63	117.46	551.66	450,000.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	6.99	1,464,900.00 <i>gal</i>
Application event totals		114.34	9.63	117.46	558.65	
03/20/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	6.98	1,464,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	6.98	

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

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

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
06/27/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	14.61	3,064,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	14.61	
07/07/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	59.34	3.81	29.48	229.18	575,000.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	14.61	3,064,000.00 <i>gal</i>
Application event totals		59.34	3.81	29.48	243.79	
07/17/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	14.61	3,064,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	14.61	
07/27/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	59.34	3.81	29.48	229.18	575,000.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	14.61	3,064,000.00 <i>gal</i>
Application event totals		59.34	3.81	29.48	243.79	
08/07/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	125.49	10.12	1,769.00	915.35	575,000.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	14.61	3,064,000.00 <i>gal</i>
Application event totals		125.49	10.12	1,769.00	929.96	

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		
08/17/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	125.49	10.12	1,769.00	915.35	575,000.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	14.61	3,064,000.00 <i>gal</i>
Application event totals		125.49	10.12	1,769.00	929.96	
08/27/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	14.61	3,064,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	14.61	

8 - 11/01/2022: Wheat, silage, boot stage

Field name: 8

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		
12/27/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	182.55	15.38	187.53	880.73	650,000.00 <i>gal</i>
Application event totals		182.55	15.38	187.53	880.73	
01/23/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	91.27	7.69	93.77	440.36	325,000.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	6.51	1,236,000.00 <i>gal</i>
Application event totals		91.27	7.69	93.77	446.88	

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

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

8 - 11/01/2022: Wheat, silage, boot stage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
02/21/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	6.51	1,236,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	6.51	
03/22/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	70.21	5.92	72.13	338.74	250,000.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	6.51	1,236,000.00 <i>gal</i>
Application event totals		70.21	5.92	72.13	345.26	

8 - 06/01/2023: Corn, silage

Field name: 8

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	14.42	2,736,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	14.42	

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	111.21	7.13	55.25	429.51	975,000.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	14.42	2,736,000.00 <i>gal</i>
Application event totals		111.21	7.13	55.25	443.94	

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

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

8 - 06/01/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
07/21/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	14.42	2,736,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	14.42	
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	111.21	7.13	55.25	429.51	975,000.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	14.42	2,736,000.00 <i>gal</i>
Application event totals		111.21	7.13	55.25	443.94	
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	14.42	2,736,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	14.42	
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	217.09	17.51	3,060.33	1,583.53	900,000.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	14.42	2,736,000.00 <i>gal</i>
Application event totals		217.09	17.51	3,060.33	1,597.95	
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	14.42	2,736,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	14.42	

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

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

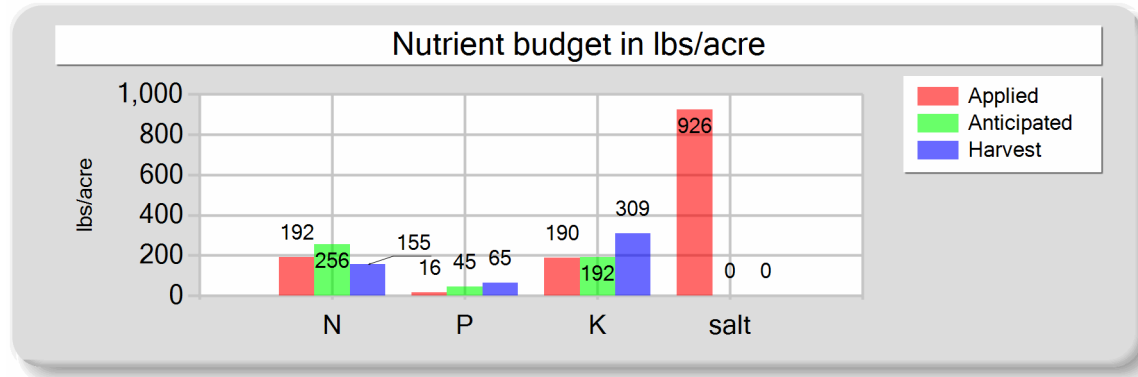
B. NUTRIENT BUDGET

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	4,500,000.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	165.72 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	12.75 inches/acre
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	184.71	15.56	189.75	891.15	Process wastewater applied
Fresh water	0.00	0.00	0.00	34.66	450,000.00 gallons
Atmospheric deposition	7.00	0.00	0.00	0.00	16.57 acre-inches
Total nutrients applied	191.71	15.56	189.75	925.81	1.27 inches/acre
Anticipated crop nutrient removal	256.00	44.80	192.00	0.00	
Actual crop nutrient removal	155.23	65.30	309.23	0.00	Total harvests for the crop
Nutrient balance	36.47	-49.73	-119.48	925.81	1 harvests
Applied to removed ratio	1.23	0.24	0.61	0.00	

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

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

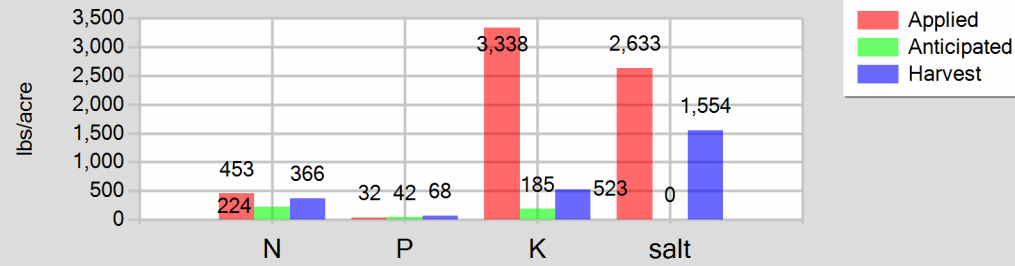
1 - 06/01/2023: Corn, silage

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	445.87	32.38	3,338.03	2,508.51
Fresh water	0.00	0.00	0.00	124.02
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	452.87	32.38	3,338.03	2,632.53
Anticipated crop nutrient removal	224.00	42.00	184.80	0.00
Actual crop nutrient removal	366.44	67.86	522.52	1,553.99
Nutrient balance	86.43	-35.48	2,815.50	1,078.53
Applied to removed ratio	1.24	0.48	6.39	1.69

Fresh water applied
16,100,000.00 gallons
592.91 acre-inches
45.61 inches/acre
Process wastewater applied
1,950,000.00 gallons
71.81 acre-inches
5.52 inches/acre
Total harvests for the crop
1 harvests

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

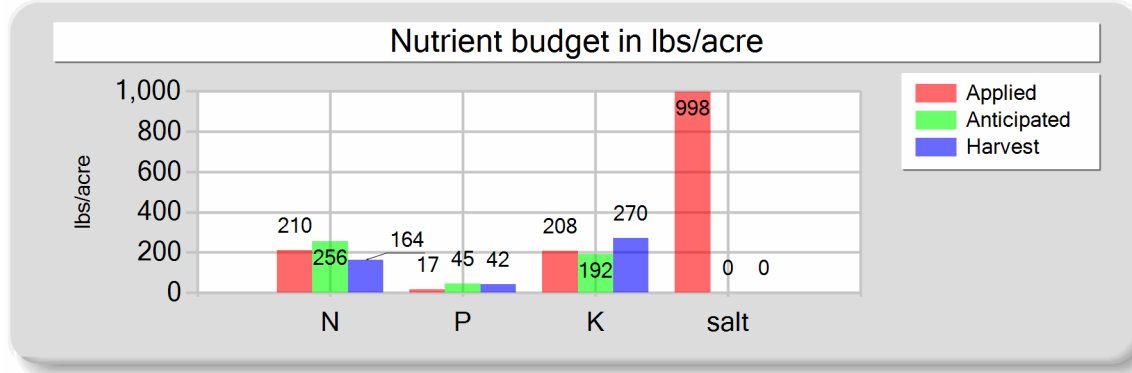
Reporting period 01/01/2023 to 12/31/2023.

10 - 11/01/2022: Wheat, silage, boot stage

Field name: 10

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	9,900,000.00 <i>gallons</i>
Plowdown credit	0.00	0.00	0.00	0.00	364.58 <i>acre-inches</i>
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	7.29 <i>inches/acre</i>
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	202.77	17.09	208.30	978.28	Process wastewater applied
Fresh water	0.00	0.00	0.00	19.83	1,900,000.00 <i>gallons</i>
Atmospheric deposition	7.00	0.00	0.00	0.00	69.97 <i>acre-inches</i>
Total nutrients applied	209.77	17.09	208.30	998.11	1.40 <i>inches/acre</i>
Anticipated crop nutrient removal	256.00	44.80	192.00	0.00	
Actual crop nutrient removal	163.69	41.81	270.44	0.00	Total harvests for the crop
Nutrient balance	46.08	-24.73	-62.14	998.11	1 <i>harvests</i>
Applied to removed ratio	1.28	0.41	0.77	0.00	

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

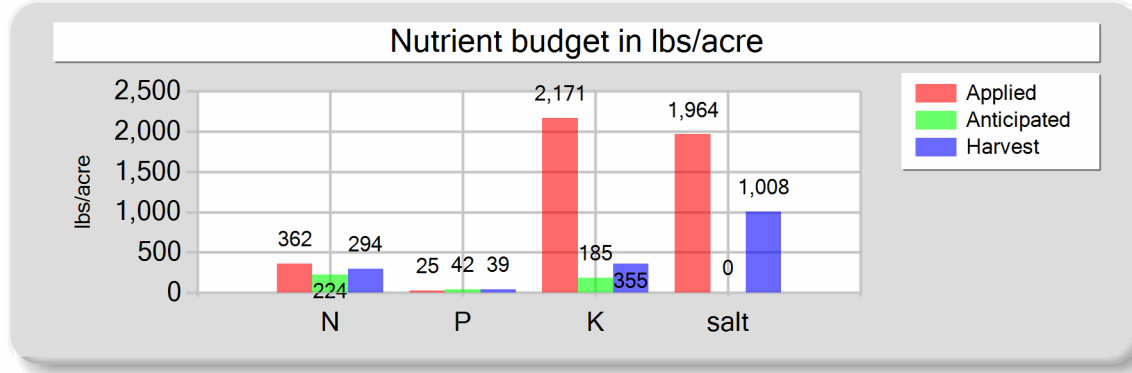
Reporting period 01/01/2023 to 12/31/2023.

10 - 06/01/2023: Corn, silage

Field name: 10

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	354.71	25.17	2,170.79	1,873.29
Fresh water	0.00	0.00	0.00	91.13
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	361.71	25.17	2,170.79	1,964.41
Anticipated crop nutrient removal	224.00	42.00	184.80	0.00
Actual crop nutrient removal	293.65	38.94	355.31	1,007.51
Nutrient balance	68.05	-13.76	1,815.49	956.90
Applied to removed ratio	1.23	0.65	6.11	1.95

Fresh water applied
45,500,000.00 gallons
1,675.61 acre-inches
33.51 inches/acre

Process wastewater applied
6,400,000.00 gallons
235.69 acre-inches
4.71 inches/acre

Total harvests for the crop
1 harvests

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

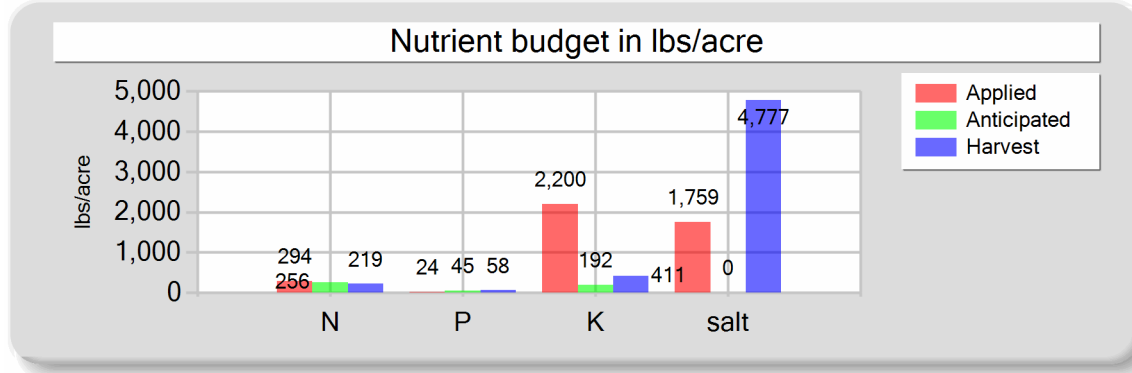
Reporting period 01/01/2023 to 12/31/2023.

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

Field name: 11

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	9,000,000.00 <i>gallons</i>
Plowdown credit	0.00	0.00	0.00	0.00	331.44 <i>acre-inches</i>
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	6.03 <i>inches/acre</i>
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	286.50	23.61	2,200.19	1,742.40	Process wastewater applied
Fresh water	0.00	0.00	0.00	16.39	3,200,000.00 <i>gallons</i>
Atmospheric deposition	7.00	0.00	0.00	0.00	117.85 <i>acre-inches</i>
Total nutrients applied	293.50	23.61	2,200.19	1,758.78	2.14 <i>inches/acre</i>
Anticipated crop nutrient removal	256.00	44.80	192.00	0.00	
Actual crop nutrient removal	219.14	58.44	410.53	4,777.35	Total harvests for the crop
Nutrient balance	74.36	-34.82	1,789.66	-3,018.57	1 <i>harvests</i>
Applied to removed ratio	1.34	0.40	5.36	0.37	

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

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

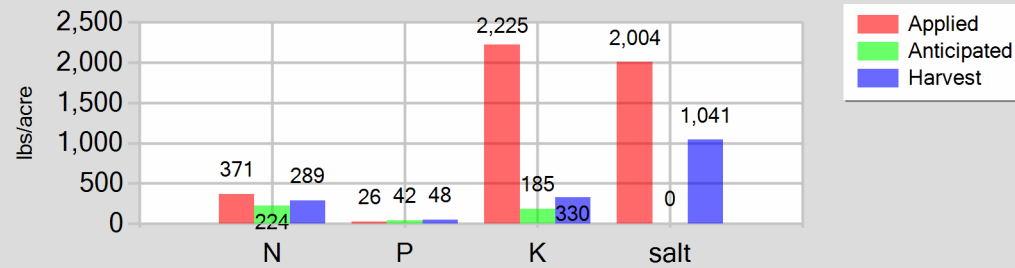
11 - 06/01/2023: Corn, silage

Field name: 11

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	363.58	25.80	2,225.06	1,920.12
Fresh water	0.00	0.00	0.00	84.12
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	370.58	25.80	2,225.06	2,004.24
Anticipated crop nutrient removal	224.00	42.00	184.80	0.00
Actual crop nutrient removal	288.95	47.89	330.45	1,040.85
Nutrient balance	81.63	-22.09	1,894.61	963.38
Applied to removed ratio	1.28	0.54	6.73	1.93

Fresh water applied
46,200,000.00 gallons
1,701.39 acre-inches
30.93 inches/acre
Process wastewater applied
7,216,000.00 gallons
265.74 acre-inches
4.83 inches/acre
Total harvests for the crop
1 harvests

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

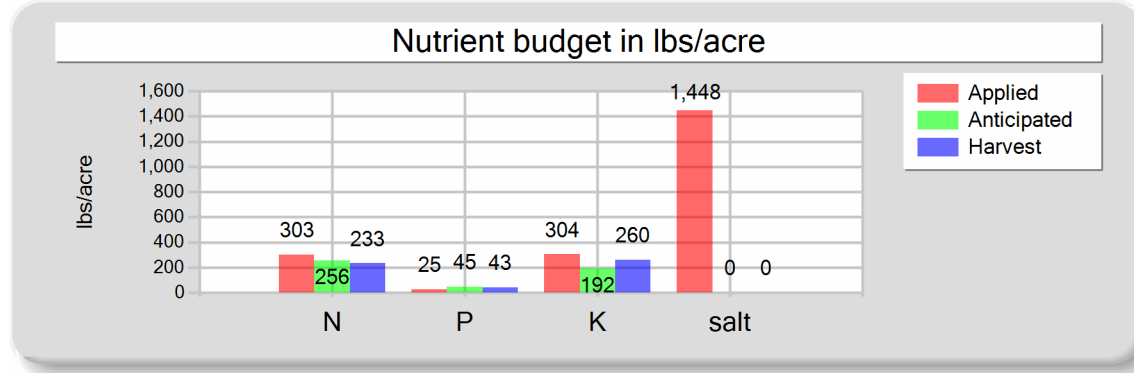
Reporting period 01/01/2023 to 12/31/2023.

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

Field name: 2

Crop: Wheat, silage, boot stage

Plant date: 11/01/2022



	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	295.90	24.93	303.98	1,427.64
Fresh water	0.00	0.00	0.00	20.21
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	302.90	24.93	303.98	1,447.85
Anticipated crop nutrient removal	256.00	44.80	192.00	0.00
Actual crop nutrient removal	232.87	43.28	259.66	0.00
Nutrient balance	70.03	-18.34	44.32	1,447.85
Applied to removed ratio	1.30	0.58	1.17	0.00

Fresh water applied
2,220,000.00 <i>gallons</i>
81.76 <i>acre-inches</i>
7.43 <i>inches/acre</i>

Process wastewater applied
610,000.00 <i>gallons</i>
22.46 <i>acre-inches</i>
2.04 <i>inches/acre</i>

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

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

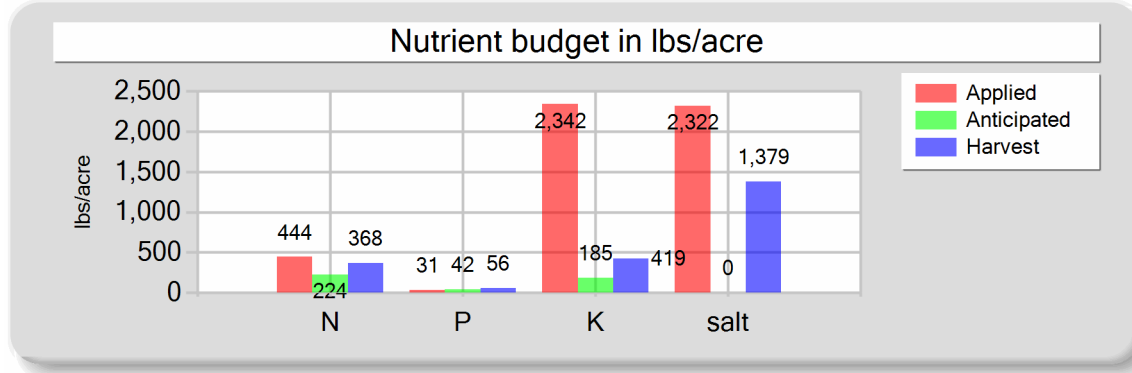
Reporting period 01/01/2023 to 12/31/2023.

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	436.99	30.61	2,342.00	2,223.96
Fresh water	0.00	0.00	0.00	98.14
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	443.99	30.61	2,342.00	2,322.10
Anticipated crop nutrient removal	224.00	42.00	184.80	0.00
Actual crop nutrient removal	368.40	56.26	419.22	1,379.25
Nutrient balance	75.59	-25.65	1,922.78	942.85
Applied to removed ratio	1.21	0.54	5.59	1.68

Fresh water applied
10,780,000.00 <i>gallons</i>
396.99 <i>acre-inches</i>
36.09 <i>inches/acre</i>

Process wastewater applied
1,800,000.00 <i>gallons</i>
66.29 <i>acre-inches</i>
6.03 <i>inches/acre</i>

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

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

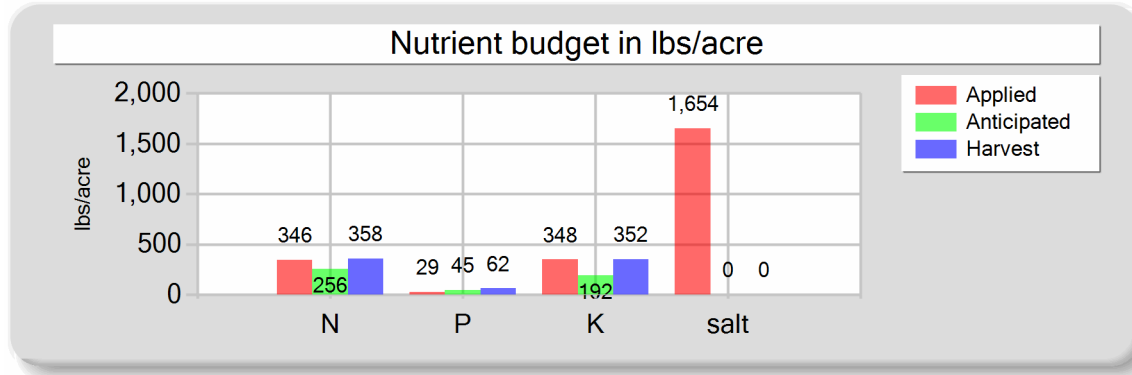
Reporting period 01/01/2023 to 12/31/2023.

3 & 4 - 11/01/2022: Wheat, silage, boot stage

Field name: 3 & 4

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	338.79	28.55	348.04	1,634.56
Fresh water	0.00	0.00	0.00	19.12
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	345.79	28.55	348.04	1,653.68
Anticipated crop nutrient removal	256.00	44.80	192.00	0.00
Actual crop nutrient removal	358.33	62.24	351.60	0.00
Nutrient balance	-12.54	-33.70	-3.56	1,653.68
Applied to removed ratio	0.97	0.46	0.99	0.00

Fresh water applied
12,027,000.00 <i>gallons</i>
442.91 <i>acre-inches</i>
7.03 <i>inches/acre</i>

Process wastewater applied
4,000,000.00 <i>gallons</i>
147.31 <i>acre-inches</i>
2.34 <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.

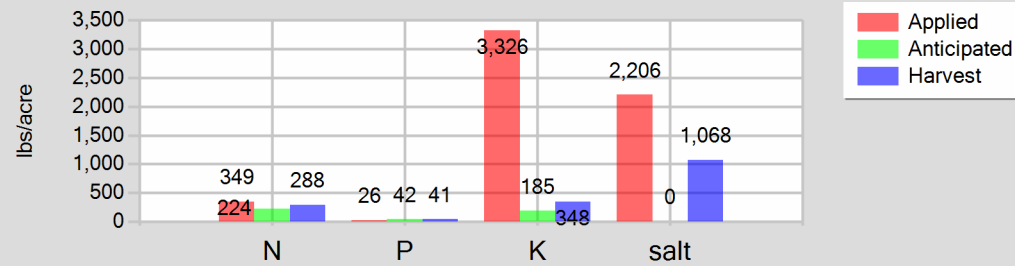
3 & 4 - 06/01/2023: Corn, silage

Field name: 3 & 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	341.80	25.75	3,325.89	2,116.54
Fresh water	0.00	0.00	0.00	89.01
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	348.80	25.75	3,325.89	2,205.56
Anticipated crop nutrient removal	224.00	42.00	184.80	0.00
Actual crop nutrient removal	288.49	41.21	347.83	1,068.23
Nutrient balance	60.31	-15.46	2,978.06	1,137.33
Applied to removed ratio	1.21	0.62	9.56	2.06

Fresh water applied
56,000,000.00 gallons
2,062.29 acre-inches
32.73 inches/acre
Process wastewater applied
6,380,000.00 gallons
234.95 acre-inches
3.73 inches/acre
Total harvests for the crop
1 harvests

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

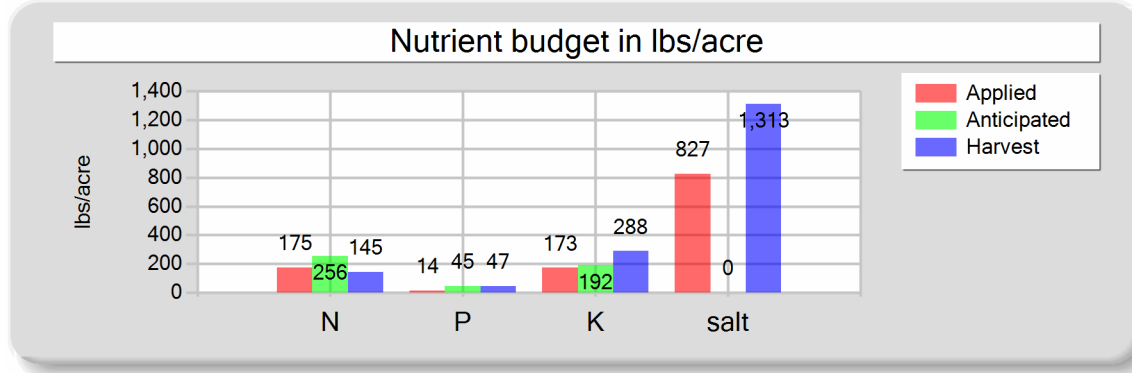
Reporting period 01/01/2023 to 12/31/2023.

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

Field name: 5

Crop: Wheat, silage, boot stage

Plant date: 11/01/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	167.98	14.15	172.57	810.47
Fresh water	0.00	0.00	0.00	16.32
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	174.98	14.15	172.57	826.79
Anticipated crop nutrient removal	256.00	44.80	192.00	0.00
Actual crop nutrient removal	144.78	46.80	288.09	1,313.24
Nutrient balance	30.21	-32.64	-115.52	-486.45
Applied to removed ratio	1.21	0.30	0.60	0.63

Fresh water applied
4,400,000.00 gallons
162.04 acre-inches
6.00 inches/acre

Process wastewater applied
850,000.00 gallons
31.30 acre-inches
1.16 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.

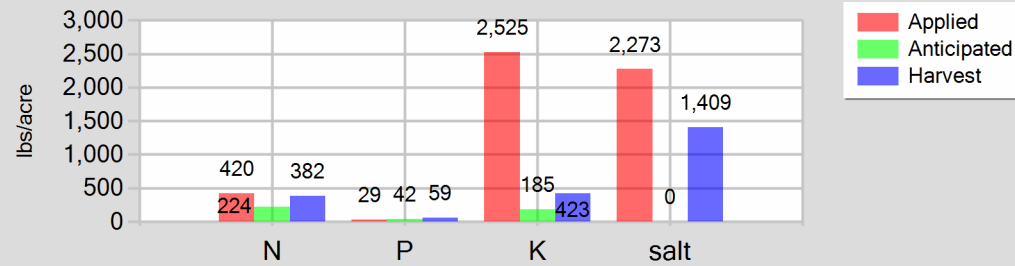
5 - 06/01/2023: Corn, silage

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	412.60	29.28	2,525.05	2,179.00
Fresh water	0.00	0.00	0.00	94.24
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	419.60	29.28	2,525.05	2,273.24
Anticipated crop nutrient removal	224.00	42.00	184.80	0.00
Actual crop nutrient removal	381.94	59.15	422.50	1,409.46
Nutrient balance	37.66	-29.87	2,102.55	863.78
Applied to removed ratio	1.10	0.50	5.98	1.61

Fresh water applied
25,410,000.00 gallons
935.76 acre-inches
34.66 inches/acre
Process wastewater applied
4,020,000.00 gallons
148.04 acre-inches
5.48 inches/acre
Total harvests for the crop
1 harvests

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

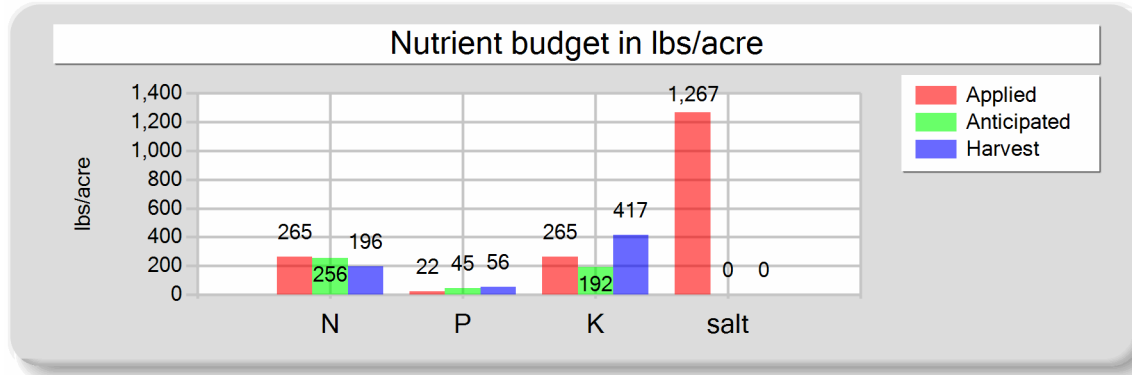
Reporting period 01/01/2023 to 12/31/2023.

6 - 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	257.90	21.73	264.95	1,244.31
Fresh water	0.00	0.00	0.00	22.33
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	264.90	21.73	264.95	1,266.64
Anticipated crop nutrient removal	256.00	44.80	192.00	0.00
Actual crop nutrient removal	196.15	55.55	416.59	0.00
Nutrient balance	68.76	-33.81	-151.64	1,266.64
Applied to removed ratio	1.35	0.39	0.64	0.00

Fresh water applied
6,690,000.00 gallons
246.37 acre-inches
8.21 inches/acre

Process wastewater applied
1,450,000.00 gallons
53.40 acre-inches
1.78 inches/acre

Total harvests for the crop
1 harvests

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

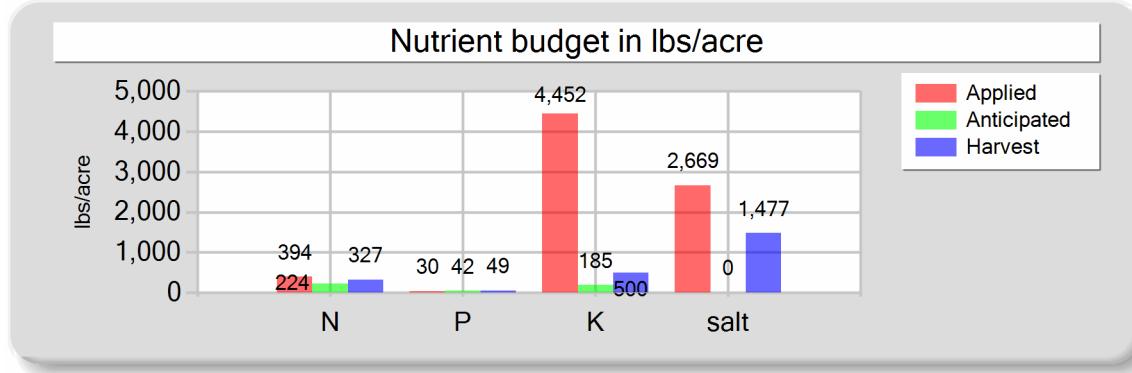
Reporting period 01/01/2023 to 12/31/2023.

6 - 06/01/2023: Corn, silage

Field name: 6

Crop: Corn, silage

Plant date: 06/01/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	29,610,000.00 <i>gallons</i>
Plowdown credit	0.00	0.00	0.00	0.00	1,090.44 <i>acre-inches</i>
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	36.35 <i>inches/acre</i>
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	387.22	30.01	4,451.60	2,570.36	Process wastewater applied
Fresh water	0.00	0.00	0.00	98.84	3,075,000.00 <i>gallons</i>
Atmospheric deposition	7.00	0.00	0.00	0.00	113.24 <i>acre-inches</i>
Total nutrients applied	394.22	30.01	4,451.60	2,669.20	3.77 <i>inches/acre</i>
Anticipated crop nutrient removal	224.00	42.00	184.80	0.00	
Actual crop nutrient removal	326.67	48.52	499.71	1,476.50	Total harvests for the crop
Nutrient balance	67.55	-18.51	3,951.89	1,192.70	1 <i>harvests</i>
Applied to removed ratio	1.21	0.62	8.91	1.81	

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

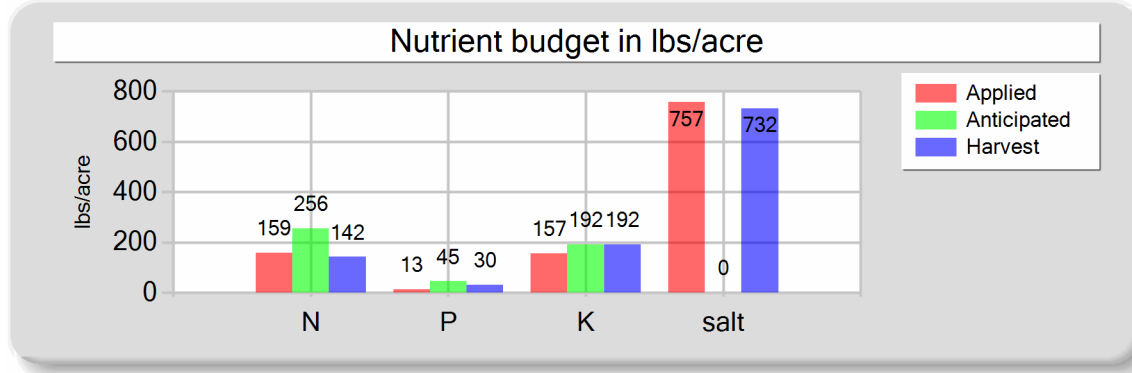
Reporting period 01/01/2023 to 12/31/2023.

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)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	152.46	12.85	156.62	735.55
Fresh water	0.00	0.00	0.00	20.95
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	159.46	12.85	156.62	756.50
Anticipated crop nutrient removal	256.00	44.80	192.00	0.00
Actual crop nutrient removal	141.97	30.18	192.27	732.19
Nutrient balance	17.49	-17.34	-35.65	24.31
Applied to removed ratio	1.12	0.43	0.81	1.03

Fresh water applied
4,393,800.00 gallons
161.81 acre-inches
7.71 inches/acre

Process wastewater applied
600,000.00 gallons
22.10 acre-inches
1.05 inches/acre

Total harvests for the crop
1 harvests

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

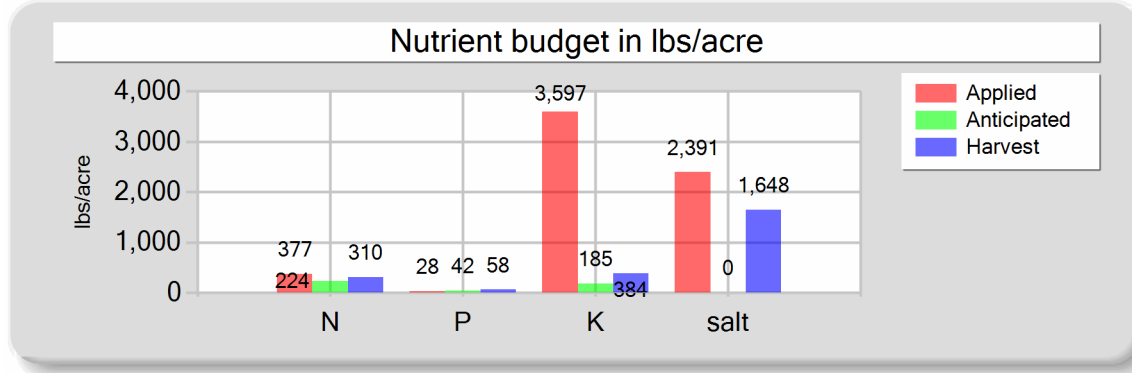
Reporting period 01/01/2023 to 12/31/2023.

7 - 06/01/2023: Corn, silage

Field name: 7

Crop: Corn, silage

Plant date: 06/01/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	369.66	27.85	3,596.97	2,289.05
Fresh water	0.00	0.00	0.00	102.28
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	376.66	27.85	3,596.97	2,391.33
Anticipated crop nutrient removal	224.00	42.00	184.80	0.00
Actual crop nutrient removal	310.47	58.42	383.92	1,647.50
Nutrient balance	66.19	-30.57	3,213.05	743.83
Applied to removed ratio	1.21	0.48	9.37	1.45

Fresh water applied
21,448,000.00 gallons
789.86 acre-inches
37.61 inches/acre

Process wastewater applied
2,300,000.00 gallons
84.70 acre-inches
4.03 inches/acre

Total harvests for the crop
1 harvests

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

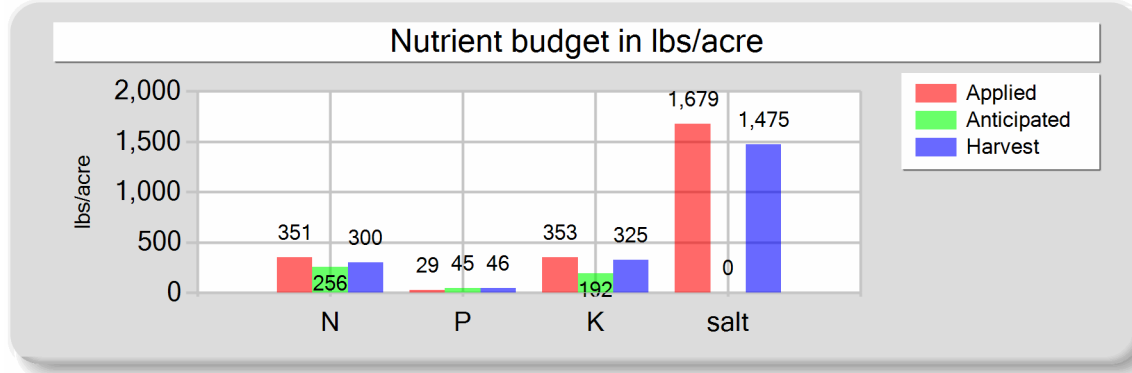
Reporting period 01/01/2023 to 12/31/2023.

8 - 11/01/2022: Wheat, silage, boot stage

Field name: 8

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	344.03	28.99	353.42	1,659.83
Fresh water	0.00	0.00	0.00	19.54
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	351.03	28.99	353.42	1,679.37
Anticipated crop nutrient removal	256.00	44.80	192.00	0.00
Actual crop nutrient removal	299.77	46.49	325.42	1,474.81
Nutrient balance	51.26	-17.50	28.00	204.57
Applied to removed ratio	1.17	0.62	1.09	1.14

Fresh water applied
3,708,000.00 gallons
136.55 acre-inches
7.19 inches/acre

Process wastewater applied
1,225,000.00 gallons
45.11 acre-inches
2.37 inches/acre

Total harvests for the crop
1 harvests

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

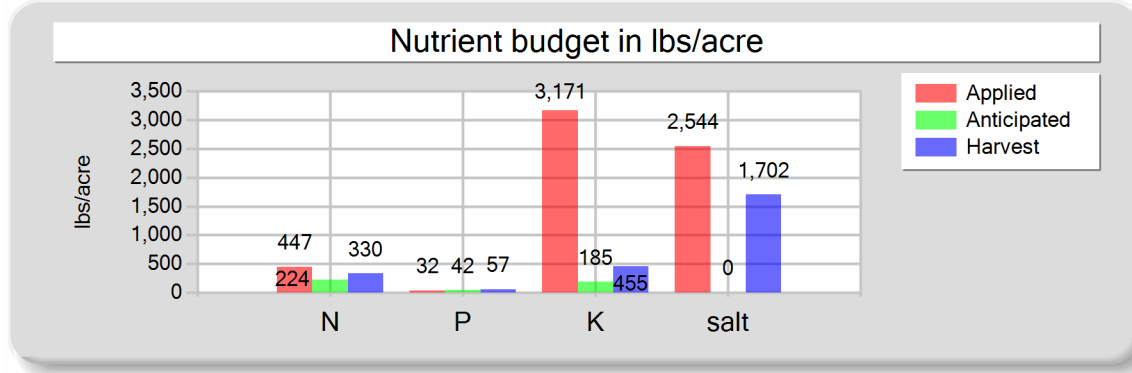
Reporting period 01/01/2023 to 12/31/2023.

8 - 06/01/2023: Corn, silage

Field name: 8

Crop: Corn, silage

Plant date: 06/01/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	19,152,000.00 <i>gallons</i>
Plowdown credit	0.00	0.00	0.00	0.00	705.30 <i>acre-inches</i>
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	37.12 <i>inches/acre</i>
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	439.52	31.78	3,170.84	2,442.56	Process wastewater applied
Fresh water	0.00	0.00	0.00	100.94	2,850,000.00 <i>gallons</i>
Atmospheric deposition	7.00	0.00	0.00	0.00	104.96 <i>acre-inches</i>
Total nutrients applied	446.52	31.78	3,170.84	2,543.50	5.52 <i>inches/acre</i>
Anticipated crop nutrient removal	224.00	42.00	184.80	0.00	
Actual crop nutrient removal	330.37	57.15	455.38	1,701.88	Total harvests for the crop
Nutrient balance	116.14	-25.37	2,715.46	841.62	1 <i>harvests</i>
Applied to removed ratio	1.35	0.56	6.96	1.49	

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: 06/09/2022 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 13.6 %

	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	13,400.00	6,800.00	24,200.00	17,200.00	9,500.00	8,000.00	5,200.00	965.80		65.32
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: 10/27/2023 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 28.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	15,200.00	4,900.00	16,700.00							54.80
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: 7.88

	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	639.42	113.79	0.00	0.00	53.88	656.88								4,820.00	3,085
DL	67.00	0.57	0.01	0.01	0.64	0.01								1.00	19

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

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

2nd Qtr WW

Sample and source description: 2nd Qtr WW

Sample date: 06/09/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 7.63

	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	259.70	62.58	0.00	0.00	16.66	129.03	2.00	2.50	5.80	12.44	0.00	1.40	2.80	1,568.00	1,003
DL	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: 08/28/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 7.72

	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	549.20	448.30	0.00	0.00	44.29	7,742.00								6,260.00	4,006
DL	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: 7.51

	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	588.20	300.00	0.00	0.00	30.90	559.10								5,358.00	3,429
DL	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: BarnSample date: 12/13/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	0.00										658.00	
DL	0.10										10.00	

Canal**Canal**Sample description: CanalSample 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)
Value	0.00										20.00	
DL	0.10										1.00	

D2**D2**Sample description: D2Sample date: 12/13/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	1.40										655.00	
DL	0.10										1.00	

D. SOIL ANALYSES

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

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

No soil analyses entered.

E. PLANT TISSUE ANALYSES

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

1

Sample and source description: 1

Sample date: 05/09/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 61.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	12,600.00	5,300.00	25,100.00		
DL	100.00	100.00	100.00		

1 - 06/01/2023: Corn, silage

1

Sample and source description: 1

Sample date: 09/15/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 56.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	16,200.00	3,000.00	23,100.00		6.87
DL	100.00	100.00	100.00		1.00

10 - 11/01/2022: Wheat, silage, boot stage

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

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

10 - 11/01/2022: Wheat, silage, boot stage

10

Sample and source description: 10

Sample date: 05/09/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 72.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	18,400.00	4,700.00	30,400.00		
DL	100.00	100.00	100.00		

10 - 06/01/2023: Corn, silage

10

Sample and source description: 10

Sample date: 09/15/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 68.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	18,100.00	2,400.00	21,900.00		6.21
DL	100.00	100.00	100.00		1.00

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

11

Sample and source description: 11

Sample date: 05/09/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 54.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	15,000.00	4,000.00	28,100.00		32.70
DL	100.00	100.00	100.00		1.00

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

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

11 - 06/01/2023: Corn, silage

11

Sample and source description: 11

Sample date: 09/15/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 69.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	18,100.00	3,000.00	20,700.00		6.52
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: 05/09/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 67.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	22,600.00	4,200.00	25,200.00		
DL	100.00	100.00	100.00		

2 - 06/01/2023: Corn, silage

2

Sample and source description: 2

Sample date: 09/15/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 65.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	20,300.00	3,100.00	23,100.00		7.60
DL	100.00	100.00	100.00		1.00

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

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

3 & 4 - 11/01/2022: Wheat, silage, boot stage

4

Sample and source description: 4

Sample date: 05/09/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 47.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	21,300.00	3,700.00	20,900.00		
DL	100.00	100.00	100.00		

3 & 4 - 06/01/2023: Corn, silage

3&4

Sample and source description: 3&4

Sample date: 09/15/2023 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 (%)
Value	17,500.00	2,500.00	21,100.00		6.48
DL	100.00	100.00	100.00		1.00

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

4

Sample and source description: 4

Sample date: 05/09/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 54.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	9,900.00	3,200.00	19,700.00		8.98
DL	100.00	100.00	100.00		1.00

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

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

5 - 06/01/2023: Corn, silage

5

Sample and source description: 5

Sample date: 09/15/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 67.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	22,600.00	3,500.00	25,000.00		8.34
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: 05/09/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 47.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	11,300.00	3,200.00	24,000.00		
DL	100.00	100.00	100.00		

6 - 06/01/2023: Corn, silage

6

Sample and source description: 6

Sample date: 09/15/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 68.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	20,200.00	3,000.00	30,900.00		9.13
DL	100.00	100.00	100.00		1.00

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

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

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

7

Sample and source description: 7

Sample date: 05/09/2023 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	12,700.00	2,700.00	17,200.00		6.55
DL	100.00	100.00	100.00		1.00

7 - 06/01/2023: Corn, silage

7

Sample and source description: 7

Sample date: 09/15/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 67.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	18,600.00	3,500.00	23,000.00		9.87
DL	100.00	100.00	100.00		1.00

8 - 11/01/2022: Wheat, silage, boot stage

8

Sample and source description: 8

Sample date: 05/09/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 51.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	18,700.00	2,900.00	20,300.00		9.20
DL	100.00	100.00	100.00		1.00

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

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

8 - 06/01/2023: Corn, silage

8

Sample and source description: 8

Sample date: 09/15/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 66.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	18,500.00	3,200.00	25,500.00		9.53
DL	100.00	100.00	100.00		1.00

F. SUBSURFACE (TILE) DRAINAGE ANALYSES

No subsurface (tile) drainage analyses entered.

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

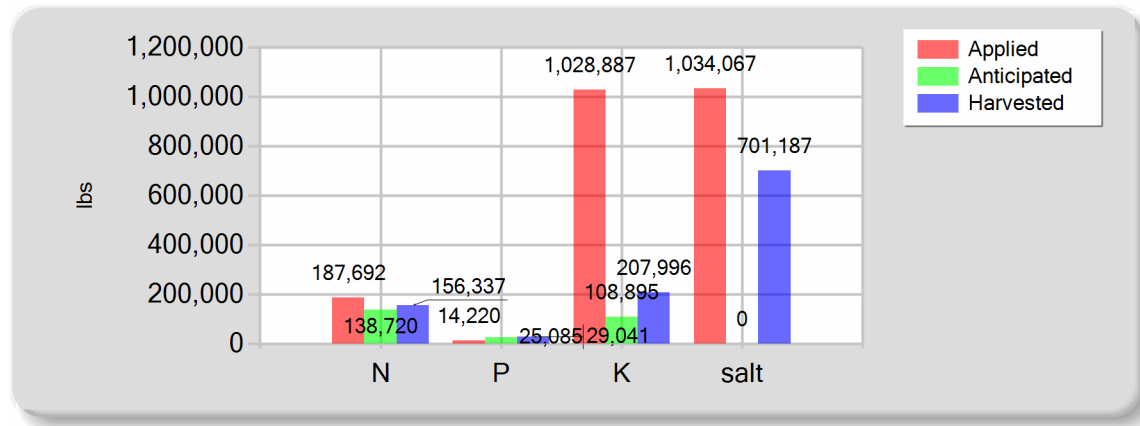
Reporting period 01/01/2023 to 12/31/2023.

NUTRIENT APPLICATIONS, POTENTIAL REMOVAL, AND BALANCE

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

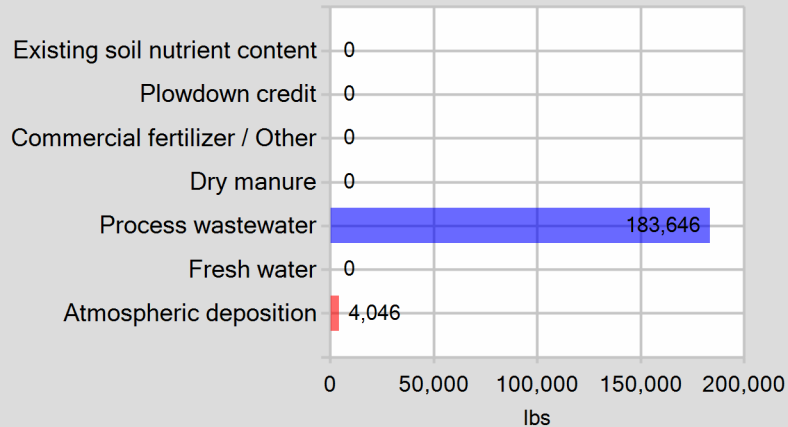
	Total N (lbs)	Total P (lbs)	Total K (lbs)	Total salt (lbs)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	183,645.83	14,220.44	1,028,887.09	1,001,317.55
Fresh water	0.00	0.00	0.00	32,749.67
Atmospheric deposition	4,046.00	0.00	0.00	0.00
Total nutrients applied	187,691.83	14,220.44	1,028,887.09	1,034,067.22
Anticipated crop nutrient removal	138,720.00	25,085.20	108,895.20	0.00
Actual crop nutrient removal	156,337.27	29,041.50	207,996.47	701,187.26
Nutrient balance	31,354.56	-14,821.05	820,890.63	332,879.95
Applied to removed ratio	1.20	0.49	4.95	1.47

B. POUNDS OF NUTRIENT APPLIED VS. CROP REMOVAL

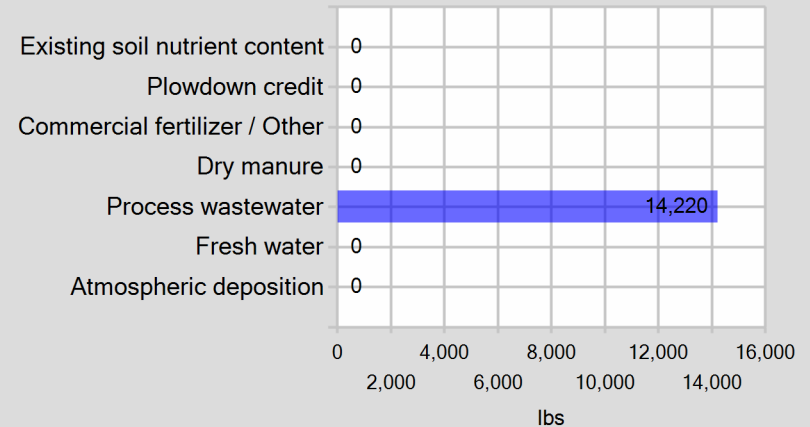


C. POUNDS OF NUTRIENT APPLIED BY MATERIAL TYPE

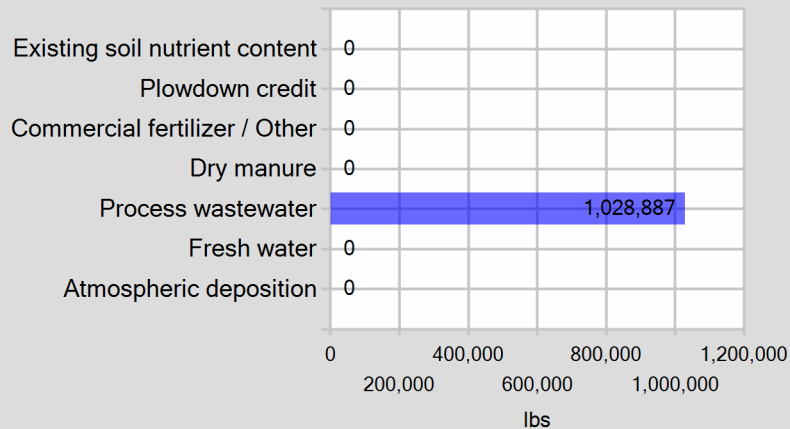
Pounds of nitrogen applied



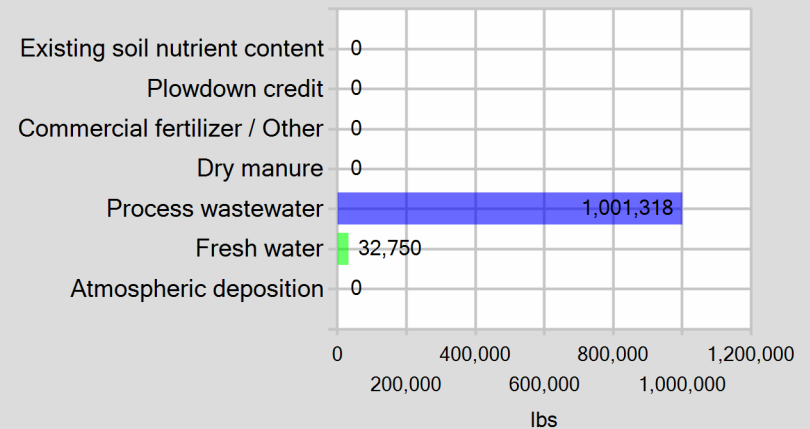
Pounds of phosphorus applied



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

Wells were all negative for Ammonia which we tested onsite using a test strip .

Irrigation Wells did not run in 2023.

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

John Jaques

PRINT OR TYPE NAME

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.

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

INSTRUCTIONS

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

OPERATOR INFORMATION

Name of Operator: Johnny Silva

Name of Dairy Facility: Jaques & Silva Dairy

Facility Address:

10536 6th AVE	Hanford	Kings	93230
Number and Street	City	County	Zip Code

Contact Person Name and Phone Number: Johnny Silva (951) 314-2414

Name	Phone Number
------	--------------

MANURE HAULER INFORMATION

Name of Hauling Company/Person: Rodriguez Trucking

Address of Hauling Company/Person:

5939 Lacey BLVD	Hanford	CA	93230
Number and Street	City	State	Zip Code

Contact Person: Rodriguez Hauling (559) 585-8243

Name	Phone Number
------	--------------

DESTINATION INFORMATION

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

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

Rodriguez Hauling	<u>(559) 585-8243</u>
Name	Phone Number

5939 Lacey BLVD	Hanford	CA	93230
Address	City	State	Zip Code

Destination Address or Assessor's Parcel Number:

5939 Lacey BLVD	Hanford	93230	
Address	City	Zip Code	

Street and nearest cross street (if no address)	Kings
	County

Assessor's Parcel Number	Assessor's Parcel Number County
--------------------------	---------------------------------

Last date hauled: 10/28/2023

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

MANURE AMOUNT HAULED

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

Manure: 3,200.00 tons

Manure Solids Content: 71.8 %

Method used to determine amount of manure:

Weighted Average

CERTIFICATION

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

Operator Signature

Date

6/14/24

Hauler Signature

Date

6/14/24

Jaques & Silva Dairy
10536 6th Ave
Hanford, CA 93230

Account# 00-0025819
Account Manager: Ben Nydam
Submitted By: Christina Medeiros

Received: 08/17/2023 8:38
Reported: 08/21/2023 16:07

Samples in this Report

Lab ID	Sample	Matrix	Sampled By	Crop	Date Sampled
23H1604-01	Canal	Ag Water			08/16/2023 15:50

Default Cooler Temperature on Receipt °C: 1.9
Containers Intact
COC/Labels Agree
Received On Ice

Notes and Definitions

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



Laboratory Director/Technical Manager

ELAP Certification #1595
A2LA Certification #6440.02



Jaques & Silva Dairy
10536 6th Ave
Hanford, CA 93230

Account# 00-0025819
Account Manager: Ben Nydam
Submitted By: Christina Medeiros

Received: 08/17/2023 8:38
Reported: 08/21/2023 16:07

Sample Results

Sample: Canal
23H1604-01 (Water)

Sampled: 8/16/2023 15:50

Sampled By:

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	0.02	mmhos/cm	0.01	1		08/18/23 17:55	SM 2510 B		BEH0919
Nitrate Nitrogen as NO3N	ND	mg/L	0.1	1	10	08/18/23 13:10	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.

Jaques & Silva Dairy
10536 6th Ave
Hanford, CA 93230

Account# 00-0025819
Account Manager: Ben Nydam
Submitted By: Christina Medeiros

Received: 08/17/2023 8:38
Reported: 08/21/2023 16:07

Quality Control

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

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Jaques & Silva Dairy
10536 6th Ave
Hanford, CA 93230

Account# 00-0025819
Account Manager: Ben Nydam
Submitted By: Christina Medeiros

Received: 08/17/2023 8:38
Reported: 08/21/2023 16:07

Quality Control (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEH0919									
Blank (BEH0919-BLK1)									
Electrical Conductivity	ND	0.01	mmhos/cm		Prepared: 8/17/2023	Analyzed: 8/18/2023			
Blank (BEH0919-BLK2)									
Electrical Conductivity	ND	0.01	mmhos/cm		Prepared: 8/17/2023	Analyzed: 8/18/2023			
Blank (BEH0919-BLK3)									
Electrical Conductivity	ND	0.01	mmhos/cm		Prepared: 8/17/2023	Analyzed: 8/18/2023			
Duplicate (BEH0919-DUP1)									
Electrical Conductivity	0.02	0.01	mmhos/cm		Prepared: 8/17/2023	Analyzed: 8/18/2023		6.30	10
Duplicate (BEH0919-DUP2)									
Electrical Conductivity	0.47	0.01	mmhos/cm		Prepared: 8/17/2023	Analyzed: 8/18/2023		0.466	10
Reference (BEH0919-SRM1)									
Electrical Conductivity	517		umhos/cm	538.0	Prepared: 8/17/2023	Analyzed: 8/18/2023	96.1	90-110	
Reference (BEH0919-SRM3)									
Electrical Conductivity	981		umhos/cm	1000	Prepared: 8/17/2023	Analyzed: 8/18/2023	98.1	90-110	
Reference (BEH0919-SRM4)									
Electrical Conductivity	990		umhos/cm	1000	Prepared: 8/17/2023	Analyzed: 8/18/2023	99.0	90-110	
Reference (BEH0919-SRM5)									
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 08:38

23H1604

EHS

WATER WORK REQUEST

 Bill To: Acct No. 25819 Cons. 8

Purchase Order No. _____ Results Needed By _____

 Client Jaques & Silva Dairy
 Address 10536 6th Ave
 City, State, Zip Hanford, CA 93230
 Email jqdairys@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. <u>Canal</u>	Sampled From: _____
2. _____	Sampled From: _____
3. _____	Sampled From: _____
4. _____	Sampled From: _____
5. _____	Sampled From: _____
6. _____	Sampled From: _____
7. _____	Sampled From: _____
8. _____	Sampled From: _____
9. _____	Sampled From: _____
10. _____	Sampled From: _____

CHAIN OF CUSTODY

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First	<u>[Signature]</u>	<u>Medeiros</u>	<u>8/17/23 4:35pm</u>	<u>[Signature]</u>
Second	<u>[Signature]</u>	<u>DLI</u>	<u>8/16/23 4:35pm</u>	<u>8/16/23</u>
Third	<u>MM</u>	<u>DLI</u>	<u>8/17/23 8:38</u>	
Fourth				

I guarantee that as the client, or on behalf of the client named, I have the authority to contract the above requested services. Should it be found that I do not have such authority, I agree to be personally liable for all costs and, if there should be action against me for this breach, reasonable attorneys' fees. It is understood that payment is expected to be cash with samples unless terms have been previously arranged. Terms are net 30 days; overdue accounts will be charged a stated 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	
Medeiros Pricing 2023			
Sampling Hrs _____	Miles _____	Consulting _____	
Amt Paid _____	Rec By _____	Check No. _____	Date _____
		\$ _____ In	\$ _____ Out

DELLAVALLE LABORATORY, INC.

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

www.dellavallelab.com 559 233-6121 • 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, NO₃-N
 (1) 1 L plastic, unpreserved (white)
- ☐ DWW1: (EC, pH, NO₃-N, NH₄-N Field Test)
 (1) 1 L plastic, unpreserved (white)
- ☐ DWW2: (DWW1 Plus SO₄, CO₃, HCO₃, Cl, Ca, Mg, Na, TDS)
 (1) 1 L plastic, unpreserved (white)
- ☐ DCW1: (EC, NO₃-N, TDS)
 (1) 1 L plastic, unpreserved (white)
- ☐ DPW1: (EC, pH, NO₃-N, NH₄-N, TKN, TDS, TP, TK)
 (1) 1 L plastic, unpreserved (white)
- ☐ DPW2: (DPW1 Plus Ca, Mg, Na, HCO₃, CO₃, SO₄, Cl)
 (1) 1 L plastic, unpreserved (white)

Date Sampled	Time Sampled	Field NH ₄ -N (mg/L)	Received Temp °C
<u>8/17/23</u>	<u>3:00pm</u>		<u>1.9</u>
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

☐ Other

Date Sampled	Time Sampled	Field NH ₄ -N (mg/L)	Received Temp °C
<u>8/17/23</u>	<u>3:00pm</u>		<u>1.9</u>
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Signature _____

Sample received in cooler with ice?

[] Yes [] No

cfl:update 2020

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



08/17/23 08:38

23H1604

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