

**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:** Capstone Ranch

Physical address of dairy:

14221 Ave 14  
Number and StreetMadera  
CityMadera  
County93637  
Zip Code

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

Date facility was originally placed in operation: 01/15/1997Regional Water Quality Control Board Basin Plan designation: San Joaquin River Basin

County Assessor Parcel Number(s) for dairy facility:

0043-0046-0002-0000	0043-0046-0003-0000	0043-0052-0001-0000	0043-0052-0003-0000	0043-0052-0004-0000	0043-0052-0005-0000
0043-0052-0006-0000					

**B. OPERATORS**

Houweling, Len

Operator name: Houweling, LenTelephone no.: (559) 664-0940 (559) 664-0940  
Landline Cellular14221 14221 Avenue 14  
Mailing Address Number and StreetMadera  
CityCA  
State  
93637  
Zip Code

VanderMeulen, Theo

Operator name: VanderMeulen, TheoTelephone no.: (559) 664-0940  
Landline Cellular14221 Ave 14  
Mailing Address Number and StreetMadera  
CityCA  
State  
93637  
Zip Code**C. OWNERS**

Diepersloot, Robert

Legal owner name: Diepersloot, RobertTelephone no.: (559) 664-0940 (559) 664-0940  
Landline Cellular14221 Aven 14221 Avenue 14  
Mailing Address Number and StreetMadera  
CityCA  
State  
93637  
Zip Code**This owner is responsible for paying permit fees.**

**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	400	0	0	0	0
Number under roof	3,600	0	0	0	0	0
Maximum number	3,600	400	0	0	0	0
Average number	3,600	400	0	0	0	0
Avg live weight (lbs)	1,400	1,400	0	0		

Predominant milk cow breed: Holstein

Average milk production: 85 pounds per cow per day

**B. MANURE GENERATED**

Total manure excreted by the herd: 104,485.49 tons per reporting period

Total nitrogen from manure: 1,363,229.20 lbs per reporting period

After ammonia losses (30% loss applied): 954,260.44 lbs per reporting period

Total phosphorus from manure: 229,272.03 lbs per reporting period

Total potassium from manure: 724,911.22 lbs per reporting period

Total salt from manure: 1,787,040.00 lbs per reporting period

**C. PROCESS WASTEWATER GENERATED**

Process wastewater generated: 136,947,000 gallons

Total nitrogen generated: 624,859.04 lbs

Total phosphorus generated: 65,674.52 lbs

Total potassium generated: 582,785.10 lbs

Total salt generated: 5,014,735.90 lbs

	136,947,000 gallons applied
+	0 gallons exported
-	0 gallons imported
=	136,947,000 gallons generated

**D. FRESH WATER SOURCES**

Source Description	Type
10	Ground water
11	Ground water
13	Ground water
15	Ground water
16	Ground water

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

Source Description	Type
2	Ground water
21	Ground water
22	Ground water
23	Ground water
3	Ground water
35	Ground water
6	Ground water
61	Ground water
66	Ground water
7	Ground water
9	Ground water
D-14	Ground water
D-19	Ground water
D-7/8	Ground water
M.I.D Water	Surface water

**E. SUBSURFACE (TILE) DRAINAGE SOURCES***No subsurface (tile) drainage sources entered.***F. NUTRIENT IMPORTS***No dry manure nutrient imports entered.**No process wastewater nutrient imports entered.**No commercial or other nutrient imports entered.***G. NUTRIENT EXPORTS***No solid nutrient exports entered.**No liquid nutrient exports entered.*

**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	77	77	2	process wastewater	0043-0052-0003-0000
11	71	71	2	process wastewater	0043-0043-0002-0000
12/13	81	81	2	process wastewater	0043-0043-0002-0000
14	78	78	2	process wastewater	0043-0043-0002-0000
15	77	77	2	process wastewater	0043-0046-0003-0000
16	52	52	2	process wastewater	0043-0046-0003-0000
17	82	82	2	process wastewater	0043-0046-0003-0000
18	44	44	2	process wastewater	0043-0046-0003-0000
19	40	40	2	process wastewater	0043-0046-0003-0000
2	77	77	2	process wastewater	0043-0052-0003-0000
3	77	77	2	process wastewater	0043-0052-0006-0000
4	76	76	2	process wastewater	0043-0052-0005-0000 0043-0052-0006-0000
5	80	80	2	process wastewater	0043-0052-0001-0000
6	44	44	2	process wastewater	0043-0052-0001-0000
9/10	77	77	2	process wastewater	0043-0043-0002-0000
Totals for areas that were used for application	1,033	1,033	30		
Totals for areas that were not used for application					
Land application area totals	1,033	1,033	30		

**B. CROPS AND HARVESTS**

1

Field name: 1

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

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

1

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

Crop: Wheat, silage, soft dough Acres planted: 77 Plant date: 10/28/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/15/2023	1,954.00 ton	Dry-weight		62.3	15,700.00	2,680.00	13,700.00		5.35

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	0.00
Total actual harvest content	25.38	300.40	51.28	262.14	1,023.67

06/27/2023: Corn, silage

Crop: Corn, silage Acres planted: 77 Plant date: 06/27/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/16/2023	2,760.00 ton	Dry-weight		65.6	11,400.00	1,910.00	11,100.00		6.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	0.00
Total actual harvest content	35.84	281.13	47.10	273.73	1,479.65

11

Field name: 11

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

Crop: Wheat, silage, soft dough Acres planted: 71 Plant date: 11/04/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/09/2023	1,740.00 ton	Dry-weight		69.8	15,700.00	2,350.00	17,100.00		9.37

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	0.00
Total actual harvest content	24.51	232.40	34.79	253.12	1,386.97

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

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

11

06/07/2023: Corn, silage

Crop: Corn, silage Acres planted: 71 Plant date: 06/07/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/22/2023	2,422.00 ton	Dry-weight		71.6	10,900.00	1,820.00	13,700.00		6.47

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	0.00
Total actual harvest content	34.11	211.20	35.26	265.45	1,253.63

12/13

Field name: 12/13

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

Crop: Wheat, silage, soft dough Acres planted: 81 Plant date: 11/12/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/10/2023	1,879.00 ton	Dry-weight		67.0	18,800.00	2,500.00	14,100.00		10.40

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	0.00
Total actual harvest content	23.20	287.83	38.28	215.88	1,592.28

06/03/2023: Corn, silage

Crop: Corn, silage Acres planted: 81 Plant date: 06/03/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/19/2023	2,650.00 ton	Dry-weight		70.4	11,200.00	1,890.00	12,300.00		5.97

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	0.00
Total actual harvest content	32.72	216.92	36.61	238.23	1,156.26

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

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

14

Field name: 14

11/22/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough

Acres planted: 78 Plant date: 11/22/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
04/19/2023	1,768.00 ton	Dry-weight		46.2	23,200.00	3,470.00	31,800.00		12.80

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	0.00
Total actual harvest content	22.67	565.83	84.63	775.58	3,121.83

05/16/2023: Corn, silage

Crop: Corn, silage

Acres planted: 78 Plant date: 05/16/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/05/2023	2,605.00 ton	Dry-weight		69.2	11,300.00	1,580.00	9,860.00		5.16

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	0.00
Total actual harvest content	33.40	232.47	32.51	202.85	1,061.56

15

Field name: 15

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

Crop: Wheat, silage, soft dough

Acres planted: 77 Plant date: 11/19/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/19/2023	1,871.00 ton	Dry-weight		79.8	20,700.00	2,530.00	21,000.00		8.48

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	0.00
Total actual harvest content	24.30	203.21	24.84	206.15	832.45

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

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

15

06/15/2023: Corn, silage

Crop: Corn, silage Acres planted: 77 Plant date: 06/15/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/05/2023	2,547.00 ton	Dry-weight		72.4	15,300.00	2,280.00	13,500.00		6.16

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	0.00
Total actual harvest content	33.08	279.36	41.63	246.50	1,124.76

16

Field name: 16

11/30/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 52 Plant date: 11/30/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/23/2023	1,227.00 ton	Dry-weight		61.4	14,500.00	1,930.00	13,400.00		7.85

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	0.00
Total actual harvest content	23.60	264.14	35.16	244.10	1,429.97

06/28/2023: Corn, silage

Crop: Corn, silage Acres planted: 52 Plant date: 06/28/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/13/2023	1,690.00 ton	Dry-weight		70.8	13,100.00	1,960.00	14,400.00		6.10

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	0.00
Total actual harvest content	32.50	248.64	37.20	273.31	1,157.78

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

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

17

Field name: 17

11/28/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 82 Plant date: 11/28/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/23/2023	1,912.00 <i>ton</i>	Dry-weight		65.2	15,400.00	2,380.00	17,000.00		9.48

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	0.00
Total actual harvest content	23.32	249.92	38.62	275.89	1,538.48

06/22/2023: Corn, silage

Crop: Corn, silage Acres planted: 82 Plant date: 06/22/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/12/2023	2,682.00 <i>ton</i>	Dry-weight		71.2	11,900.00	1,580.00	14,200.00		5.70

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	0.00
Total actual harvest content	32.71	224.19	29.77	267.52	1,073.85

18

Field name: 18

12/12/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 44 Plant date: 12/12/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
04/18/2023	1,096.00 <i>ton</i>	Dry-weight		60.2	23,800.00	3,490.00	29,300.00		11.70

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	0.00
Total actual harvest content	24.91	471.90	69.20	580.95	2,319.83

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

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

18

05/19/2023: Corn, silage

Crop: Corn, silage Acres planted: 44 Plant date: 05/19/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/05/2023	1,480.00 ton	Dry-weight		67.6	8,960.00	1,350.00	1,350.00		5.39

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	0.00
Total actual harvest content	33.64	195.30	29.43	29.43	1,174.82

19

Field name: 19

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

Crop: Wheat, silage, soft dough Acres planted: 40 Plant date: 10/29/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/08/2023	949.00 ton	Dry-weight		70.8	17,700.00	2,420.00	17,200.00		9.74

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	0.00
Total actual harvest content	23.73	245.24	33.53	238.31	1,349.52

06/12/2023: Corn, silage

Crop: Corn, silage Acres planted: 40 Plant date: 06/12/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/06/2023	1,346.00 ton	Dry-weight		67.8	10,600.00	1,800.00	18,000.00		6.54

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	0.00
Total actual harvest content	33.65	229.71	39.01	390.07	1,417.26

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

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

2

Field name: 2

11/22/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough

Acres planted: 77 Plant date: 11/22/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/10/2023	1,896.00 ton	Dry-weight		61.4	14,800.00	2,670.00	14,000.00		12.60

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	0.00
Total actual harvest content	24.62	281.34	50.75	266.13	2,395.17

06/05/2023: Corn, silage

Crop: Corn, silage

Acres planted: 77 Plant date: 06/05/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/25/2023	2,640.00 ton	Dry-weight		70.6	10,500.00	2,210.00	12,900.00		6.30

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	0.00
Total actual harvest content	34.29	211.68	44.55	260.06	1,270.08

3

Field name: 3

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

Crop: Wheat, silage, soft dough

Acres planted: 77 Plant date: 11/18/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/18/2023	1,820.00 ton	Dry-weight		63.6	14,600.00	2,170.00	15,500.00		9.70

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	0.00
Total actual harvest content	23.64	251.23	37.34	266.71	1,669.11

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

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

3

06/03/2023: Corn, silage

Crop: Corn, silage Acres planted: 77 Plant date: 06/03/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/19/2023	2,595.00 ton	Dry-weight		69.0	10,500.00	2,260.00	11,000.00		5.17

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	0.00
Total actual harvest content	33.70	219.40	47.22	229.84	1,080.26

4

Field name: 4

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

Crop: Wheat, silage, soft dough Acres planted: 76 Plant date: 11/04/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/16/2023	1,853.00 ton	Dry-weight		65.4	14,300.00	1,770.00	11,700.00		9.83

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	0.00
Total actual harvest content	24.38	241.27	29.86	197.40	1,658.52

06/09/2023: Corn, silage

Crop: Corn, silage Acres planted: 76 Plant date: 06/09/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/03/2023	2,525.00 ton	Dry-weight		67.2	9,520.00	2,330.00	11,400.00		5.71

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	0.00
Total actual harvest content	33.22	207.49	50.78	248.46	1,244.48

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

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

5

Field name: 5

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

Crop: Wheat, silage, soft dough Acres planted: 80 Plant date: 11/18/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/19/2023	2,017.00 <i>ton</i>	Dry-weight		67.4	16,400.00	2,210.00	15,300.00		11.70

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	0.00
Total actual harvest content	25.21	269.59	36.33	251.51	1,923.31

06/22/2023: Corn, silage

Crop: Corn, silage Acres planted: 80 Plant date: 06/22/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/12/2023	2,581.00 <i>ton</i>	Dry-weight		66.4	11,100.00	2,100.00	12,900.00		5.98

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	0.00
Total actual harvest content	32.26	240.65	45.53	279.68	1,296.49

6

Field name: 6

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

Crop: Wheat, silage, soft dough Acres planted: 44 Plant date: 11/14/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/17/2023	989.00 <i>ton</i>	Dry-weight		67.2	13,200.00	2,220.00	15,600.00		11.60

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	0.00
Total actual harvest content	22.48	194.64	32.73	230.02	1,710.43

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

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

6

06/14/2023: Corn, silage

Crop: Corn, silage

Acres planted: 44 Plant date: 06/14/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/05/2023	1,420.00 ton	Dry-weight		69.0	13,300.00	1,830.00	11,400.00		5.75

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	0.00
Total actual harvest content	32.27	266.12	36.62	228.10	1,150.52

9/10

Field name: 9/10

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

Crop: Wheat, silage, soft dough

Acres planted: 77 Plant date: 10/21/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/08/2023	1,752.00 ton	Dry-weight		66.8	17,000.00	2,130.00	11,300.00		10.40

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	18.00	198.00	30.60	149.40	0.00
Total actual harvest content	22.75	256.84	32.18	170.72	1,571.25

05/29/2023: Corn, silage

Crop: Corn, silage

Acres planted: 77 Plant date: 05/29/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/11/2023	2,563.00 ton	Dry-weight		73.0	11,300.00	2,000.00	16,600.00		6.44

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	30.00	240.00	45.00	198.00	0.00
Total actual harvest content	33.29	203.11	35.95	298.37	1,157.54

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

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

**NUTRIENT BUDGET**

**A. LAND APPLICATIONS**

1 - 10/28/2022: Wheat, silage, soft dough

Field name: 1

Crop: Wheat, silage, soft dough

Plant date: 10/28/2022

Application date	Application method	Precipitation 24 hours prior		Precipitation during application			Precipitation 24 hours following
10/13/2022	Surface (irrigation)	No precipitation		No precipitation			No precipitation
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
22		Ground water	0.00	0.00	0.00	210.65	4,180,000.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	210.65	
12/09/2022	Surface (irrigation)	No precipitation		No precipitation			No precipitation
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater Application		Process wastewater	365.72	42.33	340.94	2,531.93	6,180,500.00 <i>gal</i>
Application event totals			365.72	42.33	340.94	2,531.93	
01/08/2023	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
M.I.D Water		Surface water	0.50	0.00	0.00	110.27	9,250,000.00 <i>gal</i>
Application event totals			0.50	0.00	0.00	110.27	
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
M.I.D Water		Surface water	0.60	0.00	0.00	133.06	11,161,250.00 <i>gal</i>
Application event totals			0.60	0.00	0.00	133.06	
03/29/2023	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
M.I.D Water		Surface water	0.83	0.00	0.00	182.62	15,318,750.00 <i>gal</i>
Application event totals			0.83	0.00	0.00	182.62	

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

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

**1 - 10/28/2022: Wheat, silage, soft dough**

Application date	Application method		Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following		
04/07/2023	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
M.I.D Water			Surface water		0.63	0.00	0.00	137.60	11,542,500.00 <i>gal</i>
Application event totals					0.63	0.00	0.00	137.60	
04/22/2023	Surface (irrigation)		No precipitation		No precipitation		No precipitation		
Source description			Material type		N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water			Surface water		0.54	0.00	0.00	118.95	9,977,500.00 <i>gal</i>
Application event totals					0.54	0.00	0.00	118.95	

**1 - 06/27/2023: Corn, silage**

Field name: 1

Crop: Corn, silage

Plant date: 06/27/2023

Application date	Application method		Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following	
05/30/2023	Surface (irrigation)		No precipitation		No precipitation		No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
M.I.D Water		Surface water	1.09	0.00	0.00	238.97	20,045,000.00 <i>gal</i>	
Application event totals			1.09	0.00	0.00	238.97		
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	
M.I.D Water		Surface water	0.36	0.00	0.00	78.71	6,602,500.00 <i>gal</i>	
Application event totals			0.36	0.00	0.00	78.71		
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	
M.I.D Water		Surface water	0.47	0.00	0.00	103.38	8,672,143.00 <i>gal</i>	
Application event totals			0.47	0.00	0.00	103.38		

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

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

**1 - 06/27/2023: Corn, silage**

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
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
Wastewater Application	Process wastewater	294.39	23.80	284.54	2,670.30	5,049,000.00 <i>gal</i>
Application event totals		294.39	23.80	284.54	2,670.30	
08/29/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.59	0.00	0.00	130.47	10,944,000.00 <i>gal</i>
Application event totals		0.59	0.00	0.00	130.47	
09/14/2023	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
M.I.D Water	Surface water	0.83	0.00	0.00	182.34	15,295,000.00 <i>gal</i>
Application event totals		0.83	0.00	0.00	182.34	

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

Field name: 11

Crop: Wheat, silage, soft dough

Plant date: 11/04/2022

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following	
10/07/2022	Surface (irrigation)	No precipitation		No precipitation		No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater Application		Process wastewater	240.86	22.25	233.01	2,111.93	3,712,500.00 <i>gal</i>
Application event totals			240.86	22.25	233.01	2,111.93	
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
M.I.D Water		Surface water	0.33	0.00	0.00	72.19	5,584,000.00 <i>gal</i>
Application event totals			0.33	0.00	0.00	72.19	

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

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

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

Application date	Application method		Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following	
02/22/2023	Surface (irrigation)		No precipitation		No precipitation		No precipitation	
Source description			Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water			Surface water	0.60	0.00	0.00	131.60	10,178,750.00 <i>gal</i>
Application event totals				0.60	0.00	0.00	131.60	
03/29/2023	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
M.I.D Water			Surface water	0.57	0.00	0.00	125.47	9,705,000.00 <i>gal</i>
Application event totals				0.57	0.00	0.00	125.47	
04/08/2023	Surface (irrigation)		No precipitation		No precipitation		No precipitation	
Source description			Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water			Surface water	0.56	0.00	0.00	122.82	9,500,000.00 <i>gal</i>
Application event totals				0.56	0.00	0.00	122.82	
04/20/2023	Surface (irrigation)		No precipitation		No precipitation		No precipitation	
Source description			Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water			Surface water	0.68	0.00	0.00	149.13	11,535,000.00 <i>gal</i>
Application event totals				0.68	0.00	0.00	149.13	

**11 - 06/07/2023: Corn, silage**

Field name: 11

Crop: Corn, silage

Plant date: 06/07/2023

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following	
05/13/2023	Surface (irrigation)	No precipitation		No precipitation		No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater Application		Process wastewater	145.07	19.66	128.50	1,154.12	2,273,000.00 <i>gal</i>
Application event totals			145.07	19.66	128.50	1,154.12	

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

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

**11 - 06/07/2023: Corn, silage**

Application date	Application method	Precipitation 24 hours prior	Precipitation during application			Precipitation 24 hours following	
06/16/2023	Surface (irrigation)	No precipitation	No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water		Surface water	0.55	0.00	0.00	120.46	9,317,500.00 <i>gal</i>
Application event totals			0.55	0.00	0.00	120.46	
07/05/2023	Surface (irrigation)	No precipitation	No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water		Surface water	0.56	0.00	0.00	122.52	9,476,250.00 <i>gal</i>
Application event totals			0.56	0.00	0.00	122.52	
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
Wastewater Application		Process wastewater	109.24	8.83	105.58	990.85	1,727,500.00 <i>gal</i>
Application event totals			109.24	8.83	105.58	990.85	
08/03/2023	Surface (irrigation)	No precipitation	No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water		Surface water	0.53	0.00	0.00	117.36	9,077,500.00 <i>gal</i>
Application event totals			0.53	0.00	0.00	117.36	
08/14/2023	Surface (irrigation)	No precipitation	No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water		Surface water	0.56	0.00	0.00	124.27	9,612,000.00 <i>gal</i>
Application event totals			0.56	0.00	0.00	124.27	
08/25/2023	Surface (irrigation)	No precipitation	No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water		Surface water	0.61	0.00	0.00	133.51	10,326,250.00 <i>gal</i>
Application event totals			0.61	0.00	0.00	133.51	

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

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

**11 - 06/07/2023: Corn, silage**

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/08/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.60	0.00	0.00	132.52	10,250,000.00 <i>gal</i>
Application event totals		0.60	0.00	0.00	132.52	

**12/13 - 11/12/2022: Wheat, silage, soft dough**

Field name: 12/13

Crop: Wheat, silage, soft dough

Plant date: 11/12/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
10/03/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater Application	Process wastewater	152.01	14.04	147.06	1,332.86	2,673,000.00 <i>gal</i>
Application event totals		152.01	14.04	147.06	1,332.86	
12/05/2022	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
M.I.D Water	Surface water	0.36	0.00	0.00	79.16	6,985,000.00 <i>gal</i>
Application event totals		0.36	0.00	0.00	79.16	
01/04/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater Application	Process wastewater	192.26	17.76	185.99	1,685.78	3,380,750.00 <i>gal</i>
Application event totals		192.26	17.76	185.99	1,685.78	
01/26/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.25	0.00	0.00	55.98	4,940,000.00 <i>gal</i>
Application event totals		0.25	0.00	0.00	55.98	

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

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

12/13 - 11/12/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
02/22/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.34	0.00	0.00	75.58	6,669,000.00 <i>gal</i>
Application event totals		0.34	0.00	0.00	75.58	
03/09/2023	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
M.I.D Water	Surface water	0.19	0.00	0.00	42.80	3,776,250.00 <i>gal</i>
Application event totals		0.19	0.00	0.00	42.80	
04/07/2023	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
M.I.D Water	Surface water	0.26	0.00	0.00	58.14	5,130,000.00 <i>gal</i>
Application event totals		0.26	0.00	0.00	58.14	
04/14/2023	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
M.I.D Water	Surface water	0.42	0.00	0.00	92.59	8,170,000.00 <i>gal</i>
Application event totals		0.42	0.00	0.00	92.59	
05/01/2023	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
M.I.D Water	Surface water	0.48	0.00	0.00	106.58	9,405,000.00 <i>gal</i>
Application event totals		0.48	0.00	0.00	106.58	

12/13 - 06/03/2023: Corn, silage

Field name: 12/13

Crop: Corn, silage

Plant date: 06/03/2023

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

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

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

12/13 - 06/03/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application			Precipitation 24 hours following	
05/27/2023	Surface (irrigation)	No precipitation	No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater Application		Process wastewater	177.23	24.02	156.99	1,409.97	3,168,000.00 <i>gal</i>
Application event totals			177.23	24.02	156.99	1,409.97	
06/16/2023	Surface (irrigation)	No precipitation	No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water		Surface water	0.42	0.00	0.00	91.51	8,075,000.00 <i>gal</i>
Application event totals			0.42	0.00	0.00	91.51	
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
M.I.D Water		Surface water	0.42	0.00	0.00	92.86	8,193,750.00 <i>gal</i>
Application event totals			0.42	0.00	0.00	92.86	
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
M.I.D Water		Surface water	0.38	0.00	0.00	83.98	7,410,000.00 <i>gal</i>
Application event totals			0.38	0.00	0.00	83.98	
07/14/2023	Surface (irrigation)	No precipitation	No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater Application		Process wastewater	197.54	15.97	190.93	1,791.84	3,564,000.00 <i>gal</i>
Application event totals			197.54	15.97	190.93	1,791.84	
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
M.I.D Water		Surface water	0.29	0.00	0.00	64.14	5,659,286.00 <i>gal</i>
Application event totals			0.29	0.00	0.00	64.14	

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

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

12/13 - 06/03/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior		Precipitation during application			Precipitation 24 hours following
08/03/2023	Surface (irrigation)	No precipitation		No precipitation			No precipitation
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water		Surface water	0.33	0.00	0.00	71.86	6,341,250.00 <i>gal</i>
Application event totals			0.33	0.00	0.00	71.86	
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
M.I.D Water		Surface water	0.34	0.00	0.00	74.93	6,612,000.00 <i>gal</i>
Application event totals			0.34	0.00	0.00	74.93	
08/13/2023	Surface (irrigation)	No precipitation		No precipitation			No precipitation
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water		Surface water	0.16	0.00	0.00	36.07	3,182,500.00 <i>gal</i>
Application event totals			0.16	0.00	0.00	36.07	
09/25/2023	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
M.I.D Water		Surface water	0.41	0.00	0.00	89.79	7,923,000.00 <i>gal</i>
Application event totals			0.41	0.00	0.00	89.79	
09/25/2023	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
M.I.D Water		Surface water	0.42	0.00	0.00	92.37	8,151,000.00 <i>gal</i>
Application event totals			0.42	0.00	0.00	92.37	
10/07/2023	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
M.I.D Water		Surface water	0.21	0.00	0.00	47.16	4,161,000.00 <i>gal</i>
Application event totals			0.21	0.00	0.00	47.16	

14 - 11/22/2022: Wheat, silage, soft dough

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

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

14 - 11/22/2022: Wheat, silage, soft dough

Field name: 14

Crop: Wheat, silage, soft dough

Plant date: 11/22/2022

Application date	Application method	Precipitation 24 hours prior		Precipitation during application			Precipitation 24 hours following
10/13/2022	Surface (irrigation)	No precipitation		No precipitation			No precipitation
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
6		Ground water	41.97	0.00	0.00	785.71	8,640,000.00 <i>gal</i>
Application event totals			41.97	0.00	0.00	785.71	
01/05/2023	Surface (irrigation)	No precipitation		No precipitation			No precipitation
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater Application		Process wastewater	377.70	34.90	365.38	3,311.70	6,395,500.00 <i>gal</i>
Application event totals			377.70	34.90	365.38	3,311.70	
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
M.I.D Water		Surface water	0.90	0.00	0.00	197.05	16,743,750.00 <i>gal</i>
Application event totals			0.90	0.00	0.00	197.05	
02/10/2023	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
M.I.D Water		Surface water	1.14	0.00	0.00	251.55	21,375,000.00 <i>gal</i>
Application event totals			1.14	0.00	0.00	251.55	
02/25/2023	Surface (irrigation)	No precipitation		No precipitation			No precipitation
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water		Surface water	0.42	0.00	0.00	92.57	7,866,000.00 <i>gal</i>
Application event totals			0.42	0.00	0.00	92.57	
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
Lagoon		Process wastewater	186.93	21.64	174.26	1,294.12	3,200,000.00 <i>gal</i>
Application event totals			186.93	21.64	174.26	1,294.12	

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

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

**14 - 11/22/2022: Wheat, silage, soft dough**

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
04/05/2023	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
M.I.D Water	Surface water	0.38	0.00	0.00	82.73	7,030,000.00 <i>gal</i>
Application event totals		0.38	0.00	0.00	82.73	

**14 - 05/16/2023: Corn, silage**

Field name: 14

Crop: Corn, silage

Plant date: 05/16/2023

Application date	Application method	Precipitation 24 hours prior		Precipitation during application			Precipitation 24 hours following	
06/08/2023	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	
M.I.D Water		Surface water	0.56	0.00	0.00	124.10	10,545,000.00 <i>gal</i>	
Application event totals			0.56	0.00	0.00	124.10		
06/08/2023	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	
M.I.D Water		Surface water	0.24	0.00	0.00	52.99	4,503,000.00 <i>gal</i>	
Application event totals			0.24	0.00	0.00	52.99		
06/08/2023	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	
M.I.D Water		Surface water	0.23	0.00	0.00	49.64	4,218,000.00 <i>gal</i>	
Application event totals			0.23	0.00	0.00	49.64		
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	
Wastewater Application		Process wastewater	264.97	21.42	256.11	2,403.48	4,603,500.00 <i>gal</i>	
Application event totals			264.97	21.42	256.11	2,403.48		

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

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

**14 - 05/16/2023: Corn, silage**

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
07/11/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.52	0.00	0.00	114.04	9,690,000.00 <i>gal</i>
Application event totals		0.52	0.00	0.00	114.04	
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
M.I.D Water	Surface water	0.27	0.00	0.00	59.70	5,073,000.00 <i>gal</i>
Application event totals		0.27	0.00	0.00	59.70	
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
M.I.D Water	Surface water	0.59	0.00	0.00	129.69	11,020,000.00 <i>gal</i>
Application event totals		0.59	0.00	0.00	129.69	
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
M.I.D Water	Surface water	0.88	0.00	0.00	193.42	16,435,000.00 <i>gal</i>
Application event totals		0.88	0.00	0.00	193.42	
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
61	Ground water	1.86	0.00	0.00	205.87	8,950,000.00 <i>gal</i>
Application event totals		1.86	0.00	0.00	205.87	

**15 - 11/19/2022: Wheat, silage, soft dough**

Field name: 15

Crop: Wheat, silage, soft dough

Plant date: 11/19/2022

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

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

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

**15 - 11/19/2022: Wheat, silage, soft dough**

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
10/13/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
2	Ground water	18.89	0.00	0.00	395.19	6,180,500.00 <i>gal</i>
Application event totals		18.89	0.00	0.00	395.19	
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
Wastewater Application	Process wastewater	228.47	26.45	212.99	1,581.71	3,861,000.00 <i>gal</i>
Application event totals		228.47	26.45	212.99	1,581.71	
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
M.I.D Water	Surface water	0.96	0.00	0.00	211.78	17,765,000.00 <i>gal</i>
Application event totals		0.96	0.00	0.00	211.78	
04/14/2023	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
M.I.D Water	Surface water	0.80	0.00	0.00	174.98	14,677,500.00 <i>gal</i>
Application event totals		0.80	0.00	0.00	174.98	
04/27/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.20	0.00	0.00	43.60	3,657,500.00 <i>gal</i>
Application event totals		0.20	0.00	0.00	43.60	
05/15/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.61	0.00	0.00	133.19	11,172,000.00 <i>gal</i>
Application event totals		0.61	0.00	0.00	133.19	

**15 - 06/15/2023: Corn, silage**

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

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

15 - 06/15/2023: Corn, silage

Field name: 15

Crop: Corn, silage

Plant date: 06/15/2023

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following	
05/24/2023	Surface (irrigation)	No precipitation		No precipitation		No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water		Surface water	0.47	0.00	0.00	103.06	8,645,000.00 <i>gal</i>
Application event totals			0.47	0.00	0.00	103.06	
06/12/2023	Surface (irrigation)	No precipitation		No precipitation		No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water		Surface water	0.42	0.00	0.00	91.74	7,695,000.00 <i>gal</i>
Application event totals			0.42	0.00	0.00	91.74	
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
M.I.D Water		Surface water	0.37	0.00	0.00	81.91	6,871,000.00 <i>gal</i>
Application event totals			0.37	0.00	0.00	81.91	
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
M.I.D Water		Surface water	0.38	0.00	0.00	84.46	7,085,000.00 <i>gal</i>
Application event totals			0.38	0.00	0.00	84.46	
08/03/2023	Surface (irrigation)	No precipitation		No precipitation		No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water		Surface water	0.49	0.00	0.00	107.90	9,051,250.00 <i>gal</i>
Application event totals			0.49	0.00	0.00	107.90	
08/13/2023	Surface (irrigation)	No precipitation		No precipitation		No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater Application		Process wastewater	349.87	28.29	338.16	3,173.53	6,000,500.00 <i>gal</i>
Application event totals			349.87	28.29	338.16	3,173.53	

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

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

**15 - 06/15/2023: Corn, silage**

Application date	Application method		Precipitation 24 hours prior	Precipitation during application			Precipitation 24 hours following	
08/25/2023	Surface (irrigation)		No precipitation	No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
M.I.D Water		Surface water	0.58	0.00	0.00	127.41	10,687,500.00 <i>gal</i>	
Application event totals			0.58	0.00	0.00	127.41		
09/10/2023	Surface (irrigation)		No precipitation	No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
M.I.D Water		Surface water	0.46	0.00	0.00	101.87	8,545,000.00 <i>gal</i>	
Application event totals			0.46	0.00	0.00	101.87		
09/27/2023	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	
M.I.D Water		Surface water	0.48	0.00	0.00	104.85	8,795,000.00 <i>gal</i>	
Application event totals			0.48	0.00	0.00	104.85		

**16 - 11/30/2022: Wheat, silage, soft dough**

Field name: 16

Crop: Wheat, silage, soft dough

Plant date: 11/30/2022

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following	
10/27/2022	Surface (irrigation)	No precipitation		No precipitation		No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater Application		Process wastewater	140.05	12.94	135.49	1,228.01	1,581,000.00 <i>gal</i>
Application event totals			140.05	12.94	135.49	1,228.01	
01/15/2023	Surface (irrigation)	No precipitation		No precipitation		No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
3		Ground water	24.25	0.00	0.00	497.89	3,650,000.00 <i>gal</i>
Application event totals			24.25	0.00	0.00	497.89	

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

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

**16 - 11/30/2022: Wheat, silage, soft dough**

Application date	Application method		Precipitation 24 hours prior	Precipitation during application			Precipitation 24 hours following		
02/23/2023	Surface (irrigation)		No precipitation		No precipitation			No precipitation	
Source description			Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
Wastewater Application			Process wastewater	164.03	18.99	152.91	1,135.59	1,872,000.00 <i>gal</i>	
Application event totals				164.03	18.99	152.91	1,135.59		
03/14/2023	Surface (irrigation)		No precipitation		No precipitation			No precipitation	
Source description			Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
M.I.D Water			Surface water	1.42	0.00	0.00	311.93	17,670,000.00 <i>gal</i>	
Application event totals				1.42	0.00	0.00	311.93		
04/19/2023	Surface (irrigation)		No precipitation		No precipitation			No precipitation	
Source description			Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
M.I.D Water			Surface water	1.25	0.00	0.00	275.87	15,627,500.00 <i>gal</i>	
Application event totals				1.25	0.00	0.00	275.87		
05/01/2023	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	
3			Ground water	23.25	0.00	0.00	477.43	3,500,000.00 <i>gal</i>	
Application event totals				23.25	0.00	0.00	477.43		

**16 - 06/28/2023: Corn, silage**

Field name: 16

Crop: Corn, silage

Plant date: 06/28/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
06/01/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater Application	Process wastewater	279.77	37.92	247.82	2,225.77	3,210,500.00 <i>gal</i>
Application event totals		279.77	37.92	247.82	2,225.77	

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

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

**16 - 06/28/2023: 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
M.I.D Water	Surface water	0.85	0.00	0.00	187.41	10,616,250.00 <i>gal</i>
Application event totals		0.85	0.00	0.00	187.41	
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
M.I.D Water	Surface water	0.70	0.00	0.00	152.94	8,664,000.00 <i>gal</i>
Application event totals		0.70	0.00	0.00	152.94	
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
9	Ground water	8.55	0.00	0.00	212.64	2,650,000.00 <i>gal</i>
Application event totals		8.55	0.00	0.00	212.64	
08/29/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
9	Ground water	6.79	0.00	0.00	168.91	2,105,000.00 <i>gal</i>
Application event totals		6.79	0.00	0.00	168.91	
09/14/2023	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
M.I.D Water	Surface water	0.74	0.00	0.00	162.00	9,177,000.00 <i>gal</i>
Application event totals		0.74	0.00	0.00	162.00	
09/25/2023	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
M.I.D Water	Surface water	0.92	0.00	0.00	203.40	11,522,143.00 <i>gal</i>
Application event totals		0.92	0.00	0.00	203.40	

**17 - 11/28/2022: Wheat, silage, soft dough**

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

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

17 - 11/28/2022: Wheat, silage, soft dough

Field name: 17

Crop: Wheat, silage, soft dough

Plant date: 11/28/2022

Application date	Application method	Precipitation 24 hours prior		Precipitation during application			Precipitation 24 hours following	
10/21/2022	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	
Wastewater Application		Process wastewater	300.57	27.77	290.77	2,635.43	5,350,500.00 <i>gal</i>	
Application event totals			300.57	27.77	290.77	2,635.43		
02/11/2023	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	
M.I.D Water		Surface water	0.31	0.00	0.00	69.19	6,180,500.00 <i>gal</i>	
Application event totals			0.31	0.00	0.00	69.19		
03/09/2023	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	
M.I.D Water		Surface water	0.71	0.00	0.00	157.13	14,036,250.00 <i>gal</i>	
Application event totals			0.71	0.00	0.00	157.13		
04/14/2023	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	
M.I.D Water		Surface water	0.81	0.00	0.00	177.39	15,846,000.00 <i>gal</i>	
Application event totals			0.81	0.00	0.00	177.39		
04/27/2023	Surface (irrigation)	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
M.I.D Water		Surface water	0.85	0.00	0.00	186.96	16,701,000.00 <i>gal</i>	
Application event totals			0.85	0.00	0.00	186.96		

17 - 06/22/2023: Corn, silage

Field name: 17

Crop: Corn, silage

Plant date: 06/22/2023

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

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

**17 - 06/22/2023: Corn, silage**

Application date	Application method	Precipitation 24 hours prior		Precipitation during application			Precipitation 24 hours following
06/01/2023	Surface (irrigation)	No precipitation		No precipitation			No precipitation
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
6		Ground water	31.65	0.00	0.00	592.55	6,850,000.00 <i>gal</i>
Application event totals			31.65	0.00	0.00	592.55	
07/05/2023	Surface (irrigation)	No precipitation		No precipitation			No precipitation
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water		Surface water	0.94	0.00	0.00	206.58	18,453,750.00 <i>gal</i>
Application event totals			0.94	0.00	0.00	206.58	
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
M.I.D Water		Surface water	0.40	0.00	0.00	87.42	7,809,000.00 <i>gal</i>
Application event totals			0.40	0.00	0.00	87.42	
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
M.I.D Water		Surface water	0.63	0.00	0.00	137.99	12,326,250.00 <i>gal</i>
Application event totals			0.63	0.00	0.00	137.99	
08/25/2023	Surface (irrigation)	No precipitation		No precipitation			No precipitation
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater Application		Process wastewater	262.83	21.25	254.04	2,384.07	4,800,500.00 <i>gal</i>
Application event totals			262.83	21.25	254.04	2,384.07	
09/07/2023	Surface (irrigation)	No precipitation		No precipitation			No precipitation
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water		Surface water	0.47	0.00	0.00	102.73	9,177,000.00 <i>gal</i>
Application event totals			0.47	0.00	0.00	102.73	

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

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

**17 - 06/22/2023: Corn, silage**

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/25/2023	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
M.I.D Water	Surface water	0.83	0.00	0.00	183.13	16,359,000.00 <i>gal</i>
Application event totals		0.83	0.00	0.00	183.13	

**18 - 12/12/2022: Wheat, silage, soft dough**

Field name: 18

Crop: Wheat, silage, soft dough

Plant date: 12/12/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
11/05/2022	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
66	Ground water	32.56	0.00	0.00	760.15	6,680,000.00 <i>gal</i>
Application event totals		32.56	0.00	0.00	760.15	
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
Wastewater Application	Process wastewater	405.57	46.94	378.09	2,807.78	3,916,500.00 <i>gal</i>
Application event totals		405.57	46.94	378.09	2,807.78	
03/14/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.78	0.00	0.00	172.01	8,245,000.00 <i>gal</i>
Application event totals		0.78	0.00	0.00	172.01	
04/10/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.80	0.00	0.00	175.09	8,392,500.00 <i>gal</i>
Application event totals		0.80	0.00	0.00	175.09	

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

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

18 - 05/19/2023: Corn, silage

Field name: 18

Crop: Corn, silage

Plant date: 05/19/2023

Application date	Application method	Precipitation 24 hours prior		Precipitation during application			Precipitation 24 hours following	
04/24/2023	Surface (irrigation)	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
Wastewater Application		Process wastewater	127.24	17.25	112.71	1,012.28	1,235,500.00 <i>gal</i>	
Application event totals			127.24	17.25	112.71	1,012.28		
06/08/2023	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	
M.I.D Water		Surface water	0.46	0.00	0.00	102.07	4,892,500.00 <i>gal</i>	
Application event totals			0.46	0.00	0.00	102.07		
06/05/2023	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	
M.I.D Water		Surface water	0.53	0.00	0.00	116.54	5,586,000.00 <i>gal</i>	
Application event totals			0.53	0.00	0.00	116.54		
06/20/2023	Surface (irrigation)	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
M.I.D Water		Surface water	0.45	0.00	0.00	99.10	4,750,000.00 <i>gal</i>	
Application event totals			0.45	0.00	0.00	99.10		
07/03/2023	Surface (irrigation)	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
Wastewater Application		Process wastewater	116.65	13.50	108.75	807.60	1,126,500.00 <i>gal</i>	
Application event totals			116.65	13.50	108.75	807.60		
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	
M.I.D Water		Surface water	0.72	0.00	0.00	157.56	7,552,500.00 <i>gal</i>	
Application event totals			0.72	0.00	0.00	157.56		

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

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

**18 - 05/19/2023: Corn, silage**

Application date	Application method		Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following	
08/03/2023	Surface (irrigation)		No precipitation		No precipitation		No precipitation	
	Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
	M.I.D Water	Surface water	0.35	0.00	0.00	77.30	3,705,000.00 <i>gal</i>	
	Application event totals		0.35	0.00	0.00	77.30		
08/13/2023	Surface (irrigation)		No precipitation		No precipitation		No precipitation	
	Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
	M.I.D Water	Surface water	0.60	0.00	0.00	132.79	6,365,000.00 <i>gal</i>	
	Application event totals		0.60	0.00	0.00	132.79		

**19 - 10/29/2022: Wheat, silage, soft dough**

Field name: 19

Crop: Wheat, silage, soft dough

Plant date: 10/29/2022

Application date	Application method		Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following		
10/07/2022	Surface (irrigation)		No precipitation		No precipitation		No precipitation		
Source description			Material type		N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
66			Ground water		26.93	0.00	0.00	628.63	5,022,000.00 <i>gal</i>
Application event totals					26.93	0.00	0.00	628.63	
01/02/2023	Surface (irrigation)		No precipitation		No precipitation		No precipitation		
Source description			Material type		N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater Application			Process wastewater		193.82	17.91	187.50	1,699.40	1,683,000.00 <i>gal</i>
Application event totals					193.82	17.91	187.50	1,699.40	
02/10/2023	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
M.I.D Water			Surface water		0.56	0.00	0.00	122.21	5,325,500.00 <i>gal</i>
Application event totals					0.56	0.00	0.00	122.21	

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

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

**19 - 10/29/2022: Wheat, silage, soft dough**

Application date	Application method		Precipitation 24 hours prior	Precipitation during application			Precipitation 24 hours following
03/09/2023	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
M.I.D Water		Surface water	0.54	0.00	0.00	118.89	5,180,500.00 <i>gal</i>
Application event totals			0.54	0.00	0.00	118.89	
04/07/2023	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
M.I.D Water		Surface water	0.56	0.00	0.00	123.69	5,390,000.00 <i>gal</i>
Application event totals			0.56	0.00	0.00	123.69	
04/14/2023	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
M.I.D Water		Surface water	0.58	0.00	0.00	127.42	5,552,500.00 <i>gal</i>
Application event totals			0.58	0.00	0.00	127.42	

**19 - 06/12/2023: Corn, silage**

Field name: 19

Crop: Corn, silage

Plant date: 06/12/2023

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following	
05/13/2023	Surface (irrigation)	No precipitation		No precipitation		No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater Application		Process wastewater	139.85	18.96	123.88	1,112.61	1,234,500.00 <i>gal</i>
Application event totals			139.85	18.96	123.88	1,112.61	
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
M.I.D Water		Surface water	0.61	0.00	0.00	134.73	5,871,000.00 <i>gal</i>
Application event totals			0.61	0.00	0.00	134.73	

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

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

**19 - 06/12/2023: Corn, silage**

Application date	Application method	Precipitation 24 hours prior		Precipitation during application			Precipitation 24 hours following	
07/17/2023	Surface (irrigation)	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
Wastewater Application		Process wastewater	149.90	12.12	144.88	1,359.66	1,335,500.00 <i>gal</i>	
Application event totals			149.90	12.12	144.88	1,359.66		
08/03/2023	Surface (irrigation)	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
M.I.D Water		Surface water	0.84	0.00	0.00	184.77	8,051,250.00 <i>gal</i>	
Application event totals			0.84	0.00	0.00	184.77		
08/13/2023	Surface (irrigation)	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
M.I.D Water		Surface water	0.59	0.00	0.00	130.40	5,682,143.00 <i>gal</i>	
Application event totals			0.59	0.00	0.00	130.40		
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	
M.I.D Water		Surface water	0.74	0.00	0.00	163.51	7,125,000.00 <i>gal</i>	
Application event totals			0.74	0.00	0.00	163.51		
09/08/2023	Surface (irrigation)	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
M.I.D Water		Surface water	0.67	0.00	0.00	147.16	6,412,500.00 <i>gal</i>	
Application event totals			0.67	0.00	0.00	147.16		

**2 - 11/22/2022: Wheat, silage, soft dough**

Field name: 2

Crop: Wheat, silage, soft dough

Plant date: 11/22/2022

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

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

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

2 - 11/22/2022: Wheat, silage, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
10/14/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
23	Ground water	1.89	0.00	0.00	103.78	4,560,000.00 <i>gal</i>
22	Ground water	0.00	0.00	0.00	194.78	3,865,000.00 <i>gal</i>
Application event totals		1.89	0.00	0.00	298.56	
12/10/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.59	0.00	0.00	130.84	10,975,000.00 <i>gal</i>
Application event totals		0.59	0.00	0.00	130.84	
01/18/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.70	0.00	0.00	154.59	12,967,500.00 <i>gal</i>
Application event totals		0.70	0.00	0.00	154.59	
02/25/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater Application	Process wastewater	330.57	38.26	308.17	2,288.59	5,586,500.00 <i>gal</i>
Application event totals		330.57	38.26	308.17	2,288.59	
03/23/2023	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
M.I.D Water	Surface water	0.73	0.00	0.00	161.39	13,537,500.00 <i>gal</i>
Application event totals		0.73	0.00	0.00	161.39	
04/27/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.51	0.00	0.00	113.09	9,486,250.00 <i>gal</i>
Application event totals		0.51	0.00	0.00	113.09	

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

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

2 - 06/05/2023: Corn, silage

Field name: 2

Crop: Corn, silage

Plant date: 06/05/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
05/13/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.59	0.00	0.00	129.68	10,877,500.00 <i>gal</i>
Application event totals		0.59	0.00	0.00	129.68	
06/16/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.56	0.00	0.00	122.99	10,317,000.00 <i>gal</i>
Application event totals		0.56	0.00	0.00	122.99	
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
M.I.D Water	Surface water	0.59	0.00	0.00	129.11	10,830,000.00 <i>gal</i>
Application event totals		0.59	0.00	0.00	129.11	
07/21/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater Application	Process wastewater	238.39	19.27	230.41	2,162.32	4,088,500.00 <i>gal</i>
Application event totals		238.39	19.27	230.41	2,162.32	
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
M.I.D Water	Surface water	0.54	0.00	0.00	118.98	9,980,000.00 <i>gal</i>
Application event totals		0.54	0.00	0.00	118.98	
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
M.I.D Water	Surface water	0.54	0.00	0.00	118.92	9,975,000.00 <i>gal</i>
Application event totals		0.54	0.00	0.00	118.92	

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

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

**2 - 06/05/2023: Corn, silage**

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
08/29/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.62	0.00	0.00	135.90	11,400,000.00 <i>gal</i>
Application event totals		0.62	0.00	0.00	135.90	

**3 - 11/18/2022: Wheat, silage, soft dough**

Field name: 3

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

Application date	Application method	Precipitation 24 hours prior		Precipitation during application			Precipitation 24 hours following
10/20/2022	Surface (irrigation)	No precipitation		No precipitation			No precipitation
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
15		Ground water	0.24	0.00	0.00	53.52	4,489,000.00 <i>gal</i>
Application event totals			0.24	0.00	0.00	53.52	
10/20/2022	Surface (irrigation)	No precipitation		No precipitation			No precipitation
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
16		Ground water	0.33	0.00	0.00	237.02	4,860,000.00 <i>gal</i>
Application event totals			0.33	0.00	0.00	237.02	
01/30/2023	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
Wastewater Application		Process wastewater	313.41	36.28	292.17	2,169.78	5,296,500.00 <i>gal</i>
Application event totals			313.41	36.28	292.17	2,169.78	
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
M.I.D Water		Surface water	0.81	0.00	0.00	178.94	15,010,000.00 <i>gal</i>
Application event totals			0.81	0.00	0.00	178.94	

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

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

**3 - 11/18/2022: Wheat, silage, soft dough**

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
03/27/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.72	0.00	0.00	158.33	13,281,000.00 <i>gal</i>
Application event totals		0.72	0.00	0.00	158.33	
04/19/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.69	0.00	0.00	151.19	12,682,500.00 <i>gal</i>
Application event totals		0.69	0.00	0.00	151.19	
05/05/2023	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
M.I.D Water	Surface water	0.47	0.00	0.00	104.48	8,763,750.00 <i>gal</i>
Application event totals		0.47	0.00	0.00	104.48	

**3 - 06/03/2023: Corn, silage**

Field name: 3

Crop: Corn, silage

Plant date: 06/03/2023

Application date	Application method		Precipitation 24 hours prior	Precipitation during application			Precipitation 24 hours following
05/12/2023	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
M.I.D Water		Surface water	0.32	0.00	0.00	71.35	5,985,000.00 <i>gal</i>
Application event totals			0.32	0.00	0.00	71.35	
05/24/2023	Subsurface (irrigation)		No precipitation	No precipitation			No precipitation
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon		Process wastewater	284.83	38.61	252.31	2,266.03	4,840,000.00 <i>gal</i>
Application event totals			284.83	38.61	252.31	2,266.03	

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

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

**3 - 06/03/2023: Corn, silage**

Application date	Application method	Precipitation 24 hours prior		Precipitation during application			Precipitation 24 hours following	
06/12/2023	Surface (irrigation)	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
M.I.D Water		Surface water	0.83	0.00	0.00	183.47	15,390,000.00 <i>gal</i>	
Application event totals			0.83	0.00	0.00	183.47		
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	
M.I.D Water		Surface water	0.59	0.00	0.00	129.79	10,887,000.00 <i>gal</i>	
Application event totals			0.59	0.00	0.00	129.79		
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	
M.I.D Water		Surface water	0.52	0.00	0.00	114.06	9,567,857.00 <i>gal</i>	
Application event totals			0.52	0.00	0.00	114.06		
08/03/2023	Surface (irrigation)	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
M.I.D Water		Surface water	0.59	0.00	0.00	129.11	10,830,000.00 <i>gal</i>	
Application event totals			0.59	0.00	0.00	129.11		
08/29/2023	Surface (irrigation)	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
M.I.D Water		Surface water	0.62	0.00	0.00	135.90	11,400,000.00 <i>gal</i>	
Application event totals			0.62	0.00	0.00	135.90		

**4 - 11/04/2022: Wheat, silage, soft dough**

Field name: 4

Crop: Wheat, silage, soft dough

Plant date: 11/04/2022

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

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

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

**4 - 11/04/2022: Wheat, silage, soft dough**

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
11/19/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
13	Ground water	10.71	0.00	0.00	251.59	5,328,600.00 <i>gal</i>
Application event totals		10.71	0.00	0.00	251.59	
12/05/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater Application	Process wastewater	149.83	13.84	144.94	1,313.73	2,472,000.00 <i>gal</i>
Application event totals		149.83	13.84	144.94	1,313.73	
02/10/2023	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
M.I.D Water	Surface water	0.67	0.00	0.00	147.96	12,250,000.00 <i>gal</i>
Application event totals		0.67	0.00	0.00	147.96	
03/01/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater Application	Process wastewater	151.17	17.50	140.93	1,046.56	2,521,500.00 <i>gal</i>
Application event totals		151.17	17.50	140.93	1,046.56	
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
M.I.D Water	Surface water	0.62	0.00	0.00	137.03	11,345,000.00 <i>gal</i>
Application event totals		0.62	0.00	0.00	137.03	
03/29/2023	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
M.I.D Water	Surface water	0.57	0.00	0.00	125.12	10,359,000.00 <i>gal</i>
Application event totals		0.57	0.00	0.00	125.12	

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

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

**4 - 11/04/2022: Wheat, silage, soft dough**

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following			
04/27/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation			
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water		Surface water	0.52	0.00	0.00	114.65	9,492,500.00 <i>gal</i>
Application event totals			0.52	0.00	0.00	114.65	
05/01/2023	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
M.I.D Water		Surface water	0.40	0.00	0.00	87.72	7,262,500.00 <i>gal</i>
Application event totals			0.40	0.00	0.00	87.72	

**4 - 06/09/2023: Corn, silage**

Field name: 4

Crop: Corn, silage

Plant date: 06/09/2023

Application date	Application method		Precipitation 24 hours prior		Precipitation during application			Precipitation 24 hours following	
06/12/2023	Surface (irrigation)		No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount		
M.I.D Water		Surface water	0.59	0.00	0.00	129.09	10,687,500.00 <i>gal</i>		
Application event totals			0.59	0.00	0.00	129.09			
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		
M.I.D Water		Surface water	0.40	0.00	0.00	88.64	7,338,750.00 <i>gal</i>		
Application event totals			0.40	0.00	0.00	88.64			
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		
M.I.D Water		Surface water	0.45	0.00	0.00	99.83	8,265,000.00 <i>gal</i>		
Application event totals			0.45	0.00	0.00	99.83			

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

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

**4 - 06/09/2023: Corn, silage**

Application date	Application method	Precipitation 24 hours prior		Precipitation during application			Precipitation 24 hours following	
07/17/2023	Surface (irrigation)	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
Wastewater Application		Process wastewater	241.52	19.53	233.44	2,190.77	4,088,500.00 <i>gal</i>	
Application event totals			241.52	19.53	233.44	2,190.77		
07/29/2023	Surface (irrigation)	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
M.I.D Water		Surface water	0.35	0.00	0.00	77.80	6,441,000.00 <i>gal</i>	
Application event totals			0.35	0.00	0.00	77.80		
08/14/2023	Surface (irrigation)	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
M.I.D Water		Surface water	0.36	0.00	0.00	79.86	6,612,000.00 <i>gal</i>	
Application event totals			0.36	0.00	0.00	79.86		
08/29/2023	Surface (irrigation)	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
M.I.D Water		Surface water	0.50	0.00	0.00	110.15	9,120,000.00 <i>gal</i>	
Application event totals			0.50	0.00	0.00	110.15		
09/14/2023	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	
M.I.D Water		Surface water	0.63	0.00	0.00	138.55	11,471,250.00 <i>gal</i>	
Application event totals			0.63	0.00	0.00	138.55		

**5 - 11/18/2022: Wheat, silage, soft dough**

Field name: 5

Crop: Wheat, silage, soft dough

Plant date: 11/18/2022

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

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

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

**5 - 11/18/2022: Wheat, silage, soft dough**

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
10/25/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
11	Ground water	1.88	0.00	0.00	148.27	6,180,000.00 <i>gal</i>
Application event totals		1.88	0.00	0.00	148.27	
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
M.I.D Water	Surface water	0.56	0.00	0.00	122.31	10,659,000.00 <i>gal</i>
Application event totals		0.56	0.00	0.00	122.31	
02/22/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.58	0.00	0.00	127.54	11,115,000.00 <i>gal</i>
Application event totals		0.58	0.00	0.00	127.54	
03/03/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater Application	Process wastewater	315.76	36.55	294.36	2,186.01	5,544,000.00 <i>gal</i>
Application event totals		315.76	36.55	294.36	2,186.01	
03/27/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	1.02	0.00	0.00	224.01	19,522,500.00 <i>gal</i>
Application event totals		1.02	0.00	0.00	224.01	
04/14/2023	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
M.I.D Water	Surface water	0.68	0.00	0.00	149.61	13,038,750.00 <i>gal</i>
Application event totals		0.68	0.00	0.00	149.61	

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

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

**5 - 11/18/2022: Wheat, silage, soft dough**

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following	
04/27/2023	Surface (irrigation)	No precipitation		No precipitation		No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water		Surface water	0.20	0.00	0.00	44.38	3,867,857.00 <i>gal</i>
Application event totals			0.20	0.00	0.00	44.38	

**5 - 06/22/2023: Corn, silage**

Field name: 5

Crop: Corn, silage

Plant date: 06/22/2023

Application date	Application method		Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following	
05/29/2023	Surface (irrigation)		No precipitation		No precipitation		No precipitation	
Source description			Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water			Surface water	0.52	0.00	0.00	114.31	9,962,500.00 <i>gal</i>
Application event totals				0.52	0.00	0.00	114.31	
06/02/2023	Surface (irrigation)		No precipitation		No precipitation		No precipitation	
Source description			Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water			Surface water	0.57	0.00	0.00	125.58	10,944,000.00 <i>gal</i>
Application event totals				0.57	0.00	0.00	125.58	
06/14/2023	Surface (irrigation)		No precipitation		No precipitation		No precipitation	
Source description			Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water			Surface water	0.42	0.00	0.00	92.66	8,075,000.00 <i>gal</i>
Application event totals				0.42	0.00	0.00	92.66	
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
M.I.D Water			Surface water	0.42	0.00	0.00	91.54	7,977,500.00 <i>gal</i>
Application event totals				0.42	0.00	0.00	91.54	

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

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

**5 - 06/22/2023: Corn, silage**

Application date	Application method	Precipitation 24 hours prior		Precipitation during application			Precipitation 24 hours following	
07/28/2023	Surface (irrigation)	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
M.I.D Water		Surface water	0.32	0.00	0.00	69.61	6,066,429.00 <i>gal</i>	
Application event totals			0.32	0.00	0.00	69.61		
07/25/2023	Surface (irrigation)	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
M.I.D Water		Surface water	0.44	0.00	0.00	95.79	8,348,000.00 <i>gal</i>	
Application event totals			0.44	0.00	0.00	95.79		
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	
M.I.D Water		Surface water	0.48	0.00	0.00	106.22	9,257,500.00 <i>gal</i>	
Application event totals			0.48	0.00	0.00	106.22		
09/05/2023	Surface (irrigation)	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
Wastewater Application		Process wastewater	300.42	40.98	204.63	1,765.40	4,808,000.00 <i>gal</i>	
Application event totals			300.42	40.98	204.63	1,765.40		
09/27/2023	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	
M.I.D Water		Surface water	0.46	0.00	0.00	100.69	8,775,000.00 <i>gal</i>	
Application event totals			0.46	0.00	0.00	100.69		

**6 - 11/14/2022: Wheat, silage, soft dough**

Field name: 6

Crop: Wheat, silage, soft dough

Plant date: 11/14/2022

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

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

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

**6 - 11/14/2022: Wheat, silage, soft dough**

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
10/14/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
13	Ground water	8.93	0.00	0.00	209.76	2,572,000.00 <i>gal</i>
Application event totals		8.93	0.00	0.00	209.76	
01/19/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater Application	Process wastewater	239.88	27.77	223.63	1,660.73	2,316,500.00 <i>gal</i>
Application event totals		239.88	27.77	223.63	1,660.73	
02/10/2023	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
M.I.D Water	Surface water	1.07	0.00	0.00	235.45	11,286,000.00 <i>gal</i>
Application event totals		1.07	0.00	0.00	235.45	
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
M.I.D Water	Surface water	0.79	0.00	0.00	173.42	8,312,500.00 <i>gal</i>
Application event totals		0.79	0.00	0.00	173.42	
04/14/2023	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
M.I.D Water	Surface water	0.75	0.00	0.00	165.00	7,908,750.00 <i>gal</i>
Application event totals		0.75	0.00	0.00	165.00	
04/27/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.32	0.00	0.00	70.36	3,372,500.00 <i>gal</i>
Application event totals		0.32	0.00	0.00	70.36	

**6 - 06/14/2023: Corn, silage**

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

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

6 - 06/14/2023: Corn, silage

Field name: 6

Crop: Corn, silage

Plant date: 06/14/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
05/27/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater Application	Process wastewater	309.26	41.92	273.95	2,460.44	3,003,000.00 <i>gal</i>
Application event totals		309.26	41.92	273.95	2,460.44	
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
M.I.D Water	Surface water	0.55	0.00	0.00	122.05	5,850,000.00 <i>gal</i>
Application event totals		0.55	0.00	0.00	122.05	
07/24/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.57	0.00	0.00	125.13	5,997,857.00 <i>gal</i>
Application event totals		0.57	0.00	0.00	125.13	
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
M.I.D Water	Surface water	0.51	0.00	0.00	111.57	5,348,000.00 <i>gal</i>
Application event totals		0.51	0.00	0.00	111.57	
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
M.I.D Water	Surface water	0.50	0.00	0.00	109.53	5,250,000.00 <i>gal</i>
Application event totals		0.50	0.00	0.00	109.53	
09/08/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water	Surface water	0.52	0.00	0.00	115.20	5,522,000.00 <i>gal</i>
Application event totals		0.52	0.00	0.00	115.20	

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

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

6 - 06/14/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following	
09/26/2023	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
M.I.D Water		Surface water	0.52	0.00	0.00	115.11	5,517,500.00 <i>gal</i>
Application event totals			0.52	0.00	0.00	115.11	

9/10 - 10/21/2022: Wheat, silage, soft dough

Field name: 9/10

Crop: Wheat, silage, soft dough

Plant date: 10/21/2022

Application date	Application method		Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following	
11/28/2022	Surface (irrigation)		No precipitation		No precipitation		No precipitation	
Source description			Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
6			Ground water	0.39	0.00	0.00	84.94	7,125,000.00 <i>gal</i>
Application event totals				0.39	0.00	0.00	84.94	
01/19/2023	Surface (irrigation)		No precipitation		No precipitation		No precipitation	
Source description			Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water			Surface water	0.63	0.00	0.00	137.60	11,542,500.00 <i>gal</i>
Application event totals				0.63	0.00	0.00	137.60	
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
M.I.D Water			Surface water	0.47	0.00	0.00	103.29	8,664,000.00 <i>gal</i>
Application event totals				0.47	0.00	0.00	103.29	
03/14/2023	Surface (irrigation)		No precipitation		No precipitation		No precipitation	
Source description			Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water			Surface water	0.85	0.00	0.00	186.87	15,675,000.00 <i>gal</i>
Application event totals				0.85	0.00	0.00	186.87	

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

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

9/10 - 10/21/2022: Wheat, silage, soft dough

Application date	Application method		Precipitation 24 hours prior	Precipitation during application			Precipitation 24 hours following		
04/05/2023	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		
M.I.D Water		Surface water	0.25	0.00	0.00	56.06	4,702,500.00 <i>gal</i>		
Application event totals			0.25	0.00	0.00	56.06			
04/18/2023	Surface (irrigation)		No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount		
M.I.D Water		Surface water	0.77	0.00	0.00	169.88	14,250,000.00 <i>gal</i>		
Application event totals			0.77	0.00	0.00	169.88			
05/09/2023	Surface (irrigation)		No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount		
Wastewater Application		Process wastewater	314.78	29.08	304.51	2,760.01	5,261,750.00 <i>gal</i>		
Application event totals			314.78	29.08	304.51	2,760.01			

9/10 - 05/29/2023: Corn, silage

Field name: 9/10

Crop: Corn, silage

Plant date: 05/29/2023

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following	
05/27/2023	Surface (irrigation)	No precipitation		No precipitation		No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Wastewater Application		Process wastewater	122.67	14.20	114.35	849.23	2,073,000.00 <i>gal</i>
Application event totals			122.67	14.20	114.35	849.23	
06/16/2023	Surface (irrigation)	No precipitation		No precipitation		No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water		Surface water	0.41	0.00	0.00	90.38	7,581,000.00 <i>gal</i>
Application event totals			0.41	0.00	0.00	90.38	

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

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

9/10 - 05/29/2023: 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>M.I.D Water</td><td>Surface water</td><td>0.36</td><td>0.00</td><td>0.00</td><td>78.14</td><td>6,555,000.00 <i>gal</i></td></tr><tr><td>Application event totals</td><td></td><td>0.36</td><td>0.00</td><td>0.00</td><td>78.14</td><td></td></tr></table>					Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	M.I.D Water	Surface water	0.36	0.00	0.00	78.14	6,555,000.00 <i>gal</i>	Application event totals		0.36	0.00	0.00	78.14	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount																			
M.I.D Water	Surface water	0.36	0.00	0.00	78.14	6,555,000.00 <i>gal</i>																			
Application event totals		0.36	0.00	0.00	78.14																				
06/26/2023	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>M.I.D Water</td><td>Surface water</td><td>0.41</td><td>0.00</td><td>0.00</td><td>90.38</td><td>7,581,000.00 <i>gal</i></td></tr><tr><td>Application event totals</td><td></td><td>0.41</td><td>0.00</td><td>0.00</td><td>90.38</td><td></td></tr></table>					Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	M.I.D Water	Surface water	0.41	0.00	0.00	90.38	7,581,000.00 <i>gal</i>	Application event totals		0.41	0.00	0.00	90.38	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount																			
M.I.D Water	Surface water	0.41	0.00	0.00	90.38	7,581,000.00 <i>gal</i>																			
Application event totals		0.41	0.00	0.00	90.38																				
07/15/2023	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>Wastewater Application</td><td>Process wastewater</td><td>112.55</td><td>15.26</td><td>99.70</td><td>895.41</td><td>1,912,500.00 <i>gal</i></td></tr><tr><td>Application event totals</td><td></td><td>112.55</td><td>15.26</td><td>99.70</td><td>895.41</td><td></td></tr></table>					Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	Wastewater Application	Process wastewater	112.55	15.26	99.70	895.41	1,912,500.00 <i>gal</i>	Application event totals		112.55	15.26	99.70	895.41	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount																			
Wastewater Application	Process wastewater	112.55	15.26	99.70	895.41	1,912,500.00 <i>gal</i>																			
Application event totals		112.55	15.26	99.70	895.41																				
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>M.I.D Water</td><td>Surface water</td><td>0.46</td><td>0.00</td><td>0.00</td><td>100.80</td><td>8,455,000.00 <i>gal</i></td></tr><tr><td>Application event totals</td><td></td><td>0.46</td><td>0.00</td><td>0.00</td><td>100.80</td><td></td></tr></table>					Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	M.I.D Water	Surface water	0.46	0.00	0.00	100.80	8,455,000.00 <i>gal</i>	Application event totals		0.46	0.00	0.00	100.80	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount																			
M.I.D Water	Surface water	0.46	0.00	0.00	100.80	8,455,000.00 <i>gal</i>																			
Application event totals		0.46	0.00	0.00	100.80																				
08/08/2023	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>M.I.D Water</td><td>Surface water</td><td>0.44</td><td>0.00</td><td>0.00</td><td>96.24</td><td>8,073,000.00 <i>gal</i></td></tr><tr><td>Application event totals</td><td></td><td>0.44</td><td>0.00</td><td>0.00</td><td>96.24</td><td></td></tr></table>					Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	M.I.D Water	Surface water	0.44	0.00	0.00	96.24	8,073,000.00 <i>gal</i>	Application event totals		0.44	0.00	0.00	96.24	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount																			
M.I.D Water	Surface water	0.44	0.00	0.00	96.24	8,073,000.00 <i>gal</i>																			
Application event totals		0.44	0.00	0.00	96.24																				
08/21/2023	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>M.I.D Water</td><td>Surface water</td><td>0.38</td><td>0.00</td><td>0.00</td><td>83.96</td><td>7,042,500.00 <i>gal</i></td></tr><tr><td>Application event totals</td><td></td><td>0.38</td><td>0.00</td><td>0.00</td><td>83.96</td><td></td></tr></table>					Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	M.I.D Water	Surface water	0.38	0.00	0.00	83.96	7,042,500.00 <i>gal</i>	Application event totals		0.38	0.00	0.00	83.96	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount																			
M.I.D Water	Surface water	0.38	0.00	0.00	83.96	7,042,500.00 <i>gal</i>																			
Application event totals		0.38	0.00	0.00	83.96																				

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

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

9/10 - 05/29/2023: Corn, silage

Application date	Application method		Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following	
09/07/2023	Surface (irrigation)		No precipitation		No precipitation		No precipitation	
Source description			Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
M.I.D Water			Surface water	0.38	0.00	0.00	82.54	6,923,750.00 <i>gal</i>
Application event totals				0.38	0.00	0.00	82.54	
09/25/2023	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
M.I.D Water			Surface water	0.43	0.00	0.00	94.45	7,923,000.00 <i>gal</i>
Application event totals				0.43	0.00	0.00	94.45	

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

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

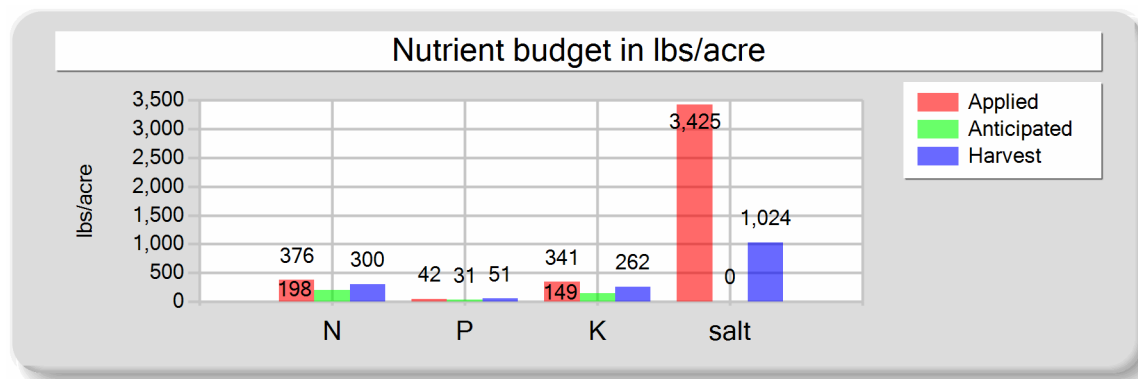
## B. NUTRIENT BUDGET

1 - 10/28/2022: Wheat, silage, soft dough

Field name: 1

Crop: Wheat, silage, soft dough

Plant date: 10/28/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	61,430,000.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	2,262.26 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	29.38 inches/acre
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	365.72	42.33	340.94	2,531.93	Process wastewater applied
Fresh water	3.10	0.00	0.00	893.15	6,180,500.00 gallons
Atmospheric deposition	7.00	0.00	0.00	0.00	227.61 acre-inches
Total nutrients applied	375.82	42.33	340.94	3,425.08	2.96 inches/acre
Anticipated crop nutrient removal	198.00	30.60	149.40	0.00	
Actual crop nutrient removal	300.40	51.28	262.14	1,023.67	Total harvests for the crop
Nutrient balance	75.42	-8.95	78.80	2,401.41	1 harvests
Applied to removed ratio	1.25	0.83	1.30	3.35	

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

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

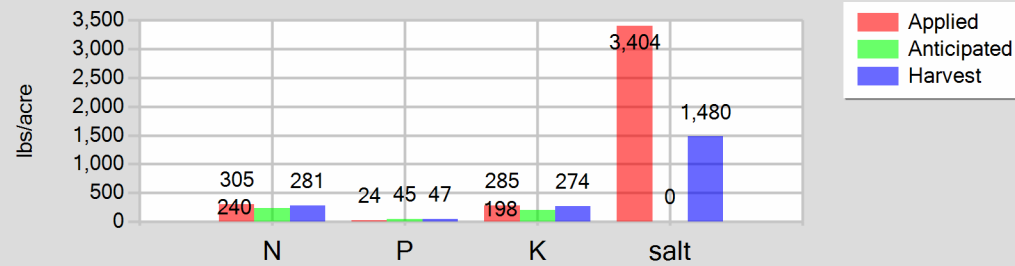
1 - 06/27/2023: Corn, silage

Field name: 1

Crop: Corn, silage

Plant date: 06/27/2023

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	294.39	23.80	284.54	2,670.30
Fresh water	3.34	0.00	0.00	733.87
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	304.73	23.80	284.54	3,404.17
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	281.13	47.10	273.73	1,479.65
Nutrient balance	23.59	-23.30	10.81	1,924.52
Applied to removed ratio	1.08	0.51	1.04	2.30

Fresh water applied
61,558,643.00 gallons
2,267.00 acre-inches
29.44 inches/acre
Process wastewater applied
5,049,000.00 gallons
185.94 acre-inches
2.41 inches/acre
Total harvests for the crop
1 harvests

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

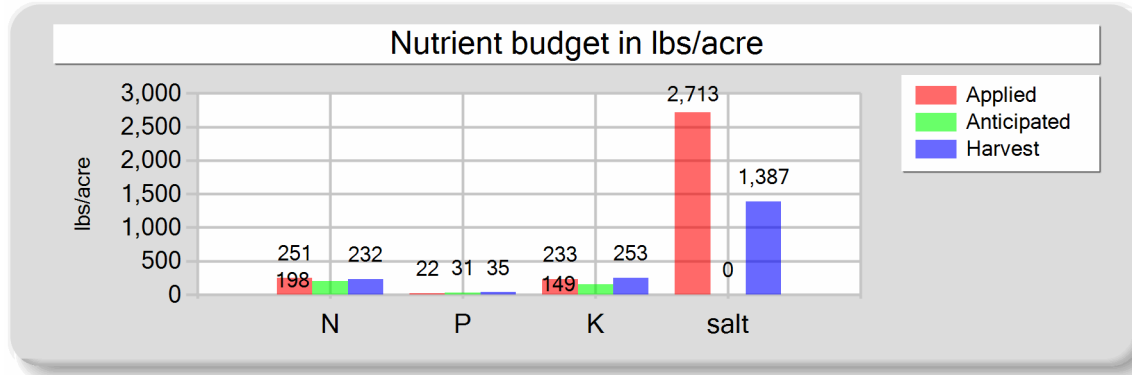
Reporting period 01/01/2023 to 12/31/2023.

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

Field name: 11

Crop: Wheat, silage, soft dough

Plant date: 11/04/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	240.86	22.25	233.01	2,111.93
Fresh water	2.73	0.00	0.00	601.23
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	250.60	22.25	233.01	2,713.16
Anticipated crop nutrient removal	198.00	30.60	149.40	0.00
Actual crop nutrient removal	232.40	34.79	253.12	1,386.97
Nutrient balance	18.20	-12.53	-20.11	1,326.19
Applied to removed ratio	1.08	0.64	0.92	1.96

Fresh water applied
46,502,750.00 gallons
1,712.54 acre-inches
24.12 inches/acre

Process wastewater applied
3,712,500.00 gallons
136.72 acre-inches
1.93 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.

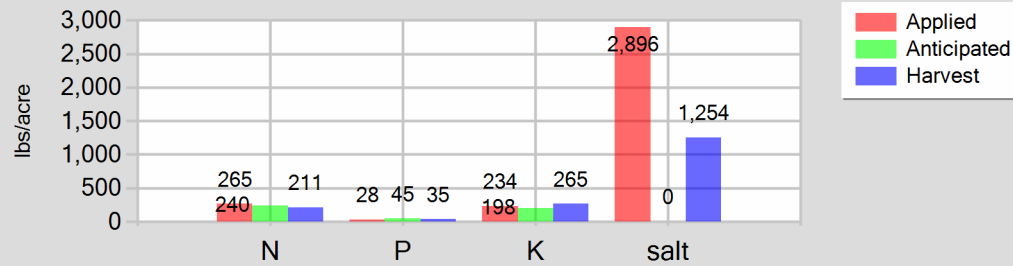
11 - 06/07/2023: Corn, silage

Field name: 11

Crop: Corn, silage

Plant date: 06/07/2023

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	254.30	28.50	234.08	2,144.97
Fresh water	3.41	0.00	0.00	750.64
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	264.72	28.50	234.08	2,895.61
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	211.20	35.26	265.45	1,253.63
Nutrient balance	53.52	-6.77	-31.37	1,641.98
Applied to removed ratio	1.25	0.81	0.88	2.31

Fresh water applied
58,059,500.00 gallons
2,138.13 acre-inches
30.11 inches/acre
Process wastewater applied
4,000,500.00 gallons
147.32 acre-inches
2.07 inches/acre
Total harvests for the crop
1 harvests

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

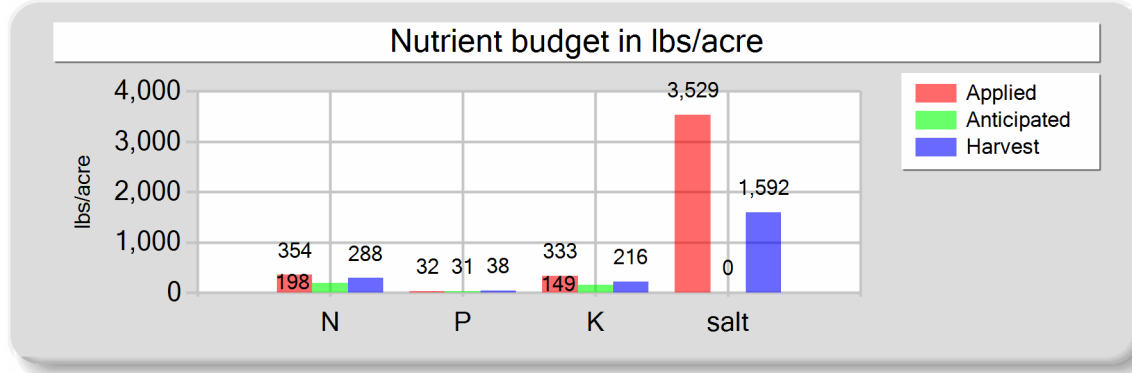
Reporting period 01/01/2023 to 12/31/2023.

12/13 - 11/12/2022: Wheat, silage, soft dough

Field name: 12/13

Crop: Wheat, silage, soft dough

Plant date: 11/12/2022



	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	344.27	31.81	333.05	3,018.64
Fresh water	2.32	0.00	0.00	510.83
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	353.60	31.81	333.05	3,529.46
Anticipated crop nutrient removal	198.00	30.60	149.40	0.00
Actual crop nutrient removal	287.83	38.28	215.88	1,592.28
Nutrient balance	65.76	-6.47	117.17	1,937.19
Applied to removed ratio	1.23	0.83	1.54	2.22

Fresh water applied
45,075,250.00 gallons
1,659.97 acre-inches
20.49 inches/acre

Process wastewater applied
6,053,750.00 gallons
222.94 acre-inches
2.75 inches/acre

Total harvests for the crop
1 harvests

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

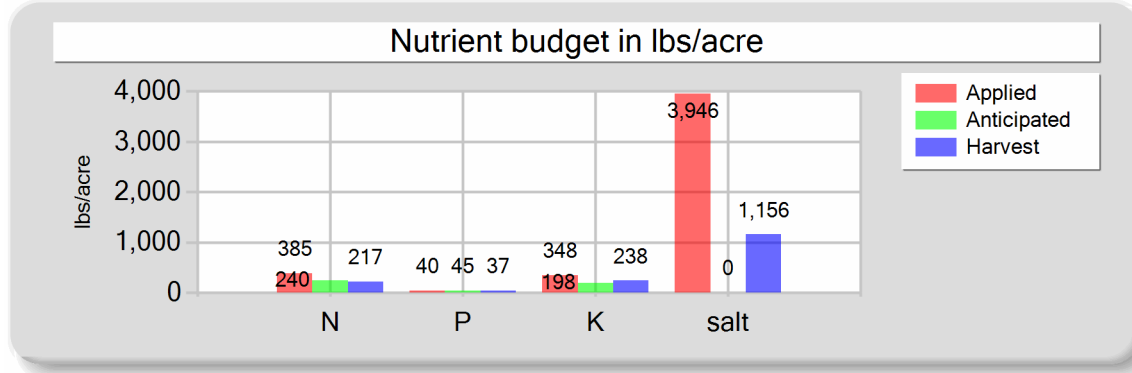
Reporting period 01/01/2023 to 12/31/2023.

12/13 - 06/03/2023: Corn, silage

Field name: 12/13

Crop: Corn, silage

Plant date: 06/03/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	374.77	39.99	347.92	3,201.81
Fresh water	3.38	0.00	0.00	744.66
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	385.15	39.99	347.92	3,946.47
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	216.92	36.61	238.23	1,156.26
Nutrient balance	168.23	3.39	109.70	2,790.20
Applied to removed ratio	1.78	1.09	1.46	3.41

Fresh water applied
65,708,786.00 gallons
2,419.83 acre-inches
29.87 inches/acre

Process wastewater applied
6,732,000.00 gallons
247.92 acre-inches
3.06 inches/acre

Total harvests for the crop
1 harvests

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

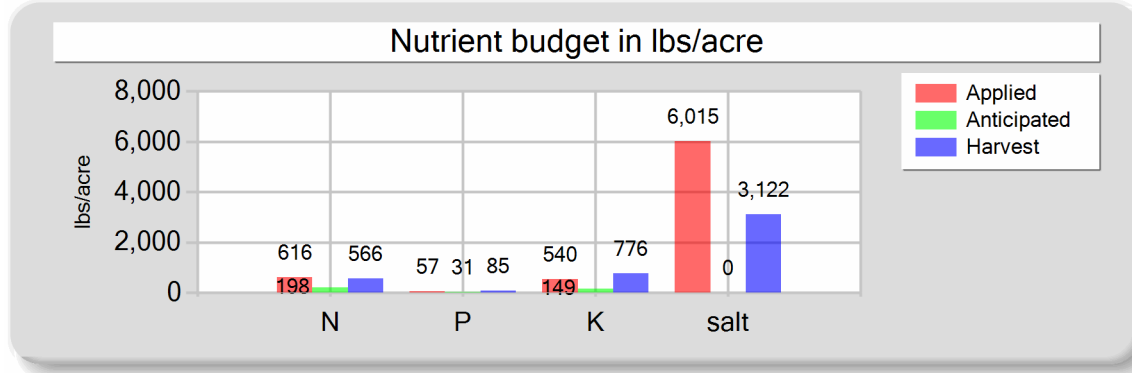
Reporting period 01/01/2023 to 12/31/2023.

14 - 11/22/2022: Wheat, silage, soft dough

Field name: 14

Crop: Wheat, silage, soft dough

Plant date: 11/22/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	564.63	56.53	539.64	4,605.82
Fresh water	44.80	0.00	0.00	1,409.62
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	616.43	56.53	539.64	6,015.44
Anticipated crop nutrient removal	198.00	30.60	149.40	0.00
Actual crop nutrient removal	565.83	84.63	775.58	3,121.83
Nutrient balance	50.60	-28.10	-235.94	2,893.61
Applied to removed ratio	1.09	0.67	0.70	1.93

Fresh water applied
61,654,750.00 gallons
2,270.53 acre-inches
29.11 inches/acre

Process wastewater applied
9,595,500.00 gallons
353.37 acre-inches
4.53 inches/acre

Total harvests for the crop
1 harvests

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

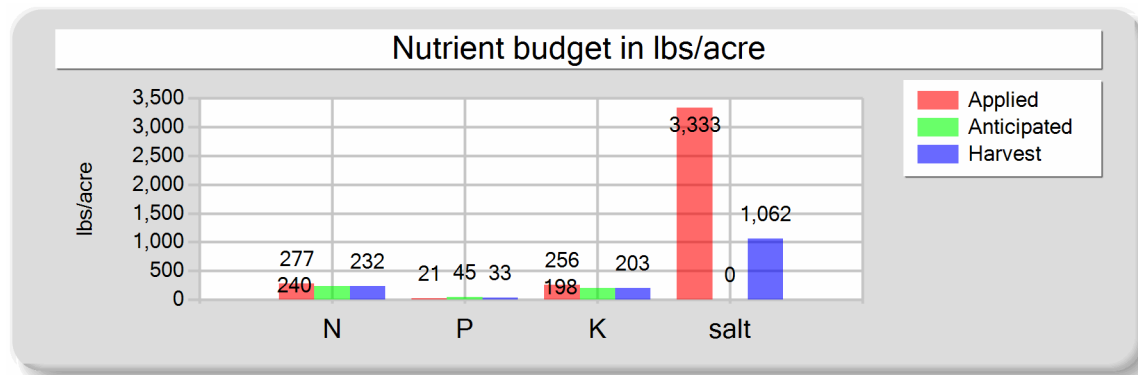
Reporting period 01/01/2023 to 12/31/2023.

14 - 05/16/2023: Corn, silage

Field name: 14

Crop: Corn, silage

Plant date: 05/16/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	264.97	21.42	256.11	2,403.48
Fresh water	5.15	0.00	0.00	929.45
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	277.12	21.42	256.11	3,332.93
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	232.47	32.51	202.85	1,061.56
Nutrient balance	44.65	-11.08	53.26	2,271.37
Applied to removed ratio	1.19	0.66	1.26	3.14

Fresh water applied
70,434,000.00 gallons
2,593.84 acre-inches
33.25 inches/acre

Process wastewater applied
4,603,500.00 gallons
169.53 acre-inches
2.17 inches/acre

Total harvests for the crop
1 harvests

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

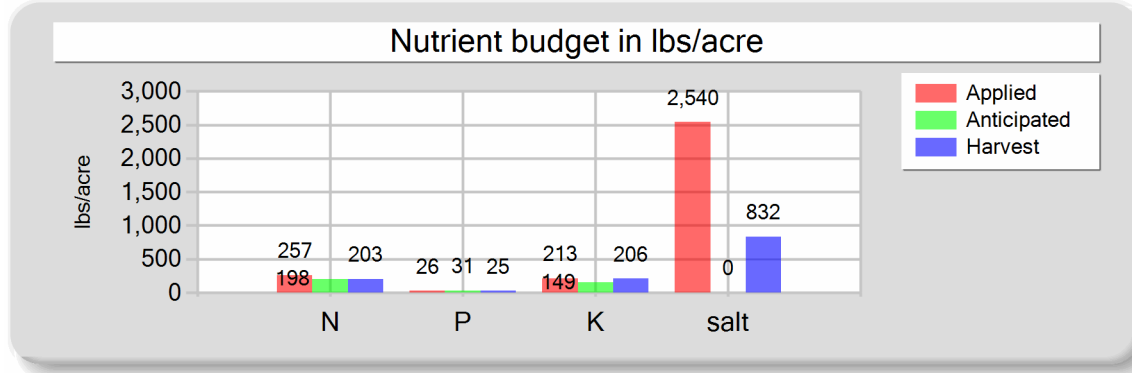
Reporting period 01/01/2023 to 12/31/2023.

15 - 11/19/2022: Wheat, silage, soft dough

Field name: 15

Crop: Wheat, silage, soft dough

Plant date: 11/19/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	53,452,500.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	1,968.47 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	25.56 inches/acre
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	228.47	26.45	212.99	1,581.71	Process wastewater applied
Fresh water	21.45	0.00	0.00	958.74	3,861,000.00 gallons
Atmospheric deposition	7.00	0.00	0.00	0.00	142.19 acre-inches
Total nutrients applied	256.92	26.45	212.99	2,540.46	1.85 inches/acre
Anticipated crop nutrient removal	198.00	30.60	149.40	0.00	
Actual crop nutrient removal	203.21	24.84	206.15	832.45	Total harvests for the crop
Nutrient balance	53.71	1.61	6.84	1,708.00	1 harvests
Applied to removed ratio	1.26	1.06	1.03	3.05	

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

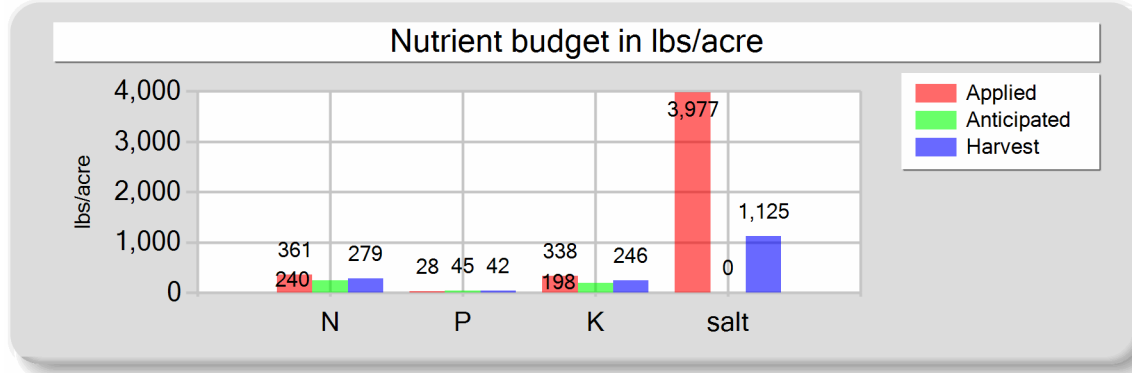
Reporting period 01/01/2023 to 12/31/2023.

15 - 06/15/2023: Corn, silage

Field name: 15

Crop: Corn, silage

Plant date: 06/15/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	67,374,750.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	2,481.18 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	32.22 inches/acre
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	349.87	28.29	338.16	3,173.53	Process wastewater applied
Fresh water	3.65	0.00	0.00	803.20	6,000,500.00 gallons
Atmospheric deposition	7.00	0.00	0.00	0.00	220.98 acre-inches
Total nutrients applied	360.52	28.29	338.16	3,976.74	2.87 inches/acre
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00	
Actual crop nutrient removal	279.36	41.63	246.50	1,124.76	Total harvests for the crop
Nutrient balance	81.16	-13.34	91.67	2,851.98	1 harvests
Applied to removed ratio	1.29	0.68	1.37	3.54	

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

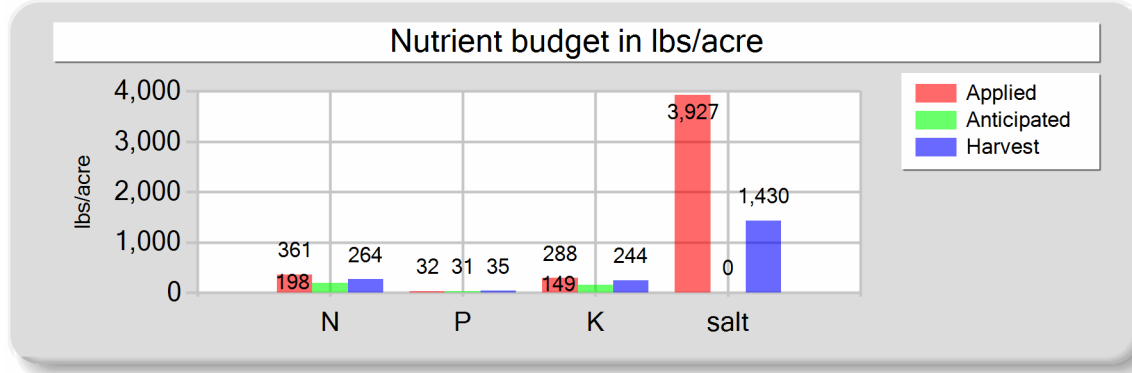
Reporting period 01/01/2023 to 12/31/2023.

16 - 11/30/2022: Wheat, silage, soft dough

Field name: 16

Crop: Wheat, silage, soft dough

Plant date: 11/30/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	304.08	31.93	288.40	2,363.59
Fresh water	50.18	0.00	0.00	1,563.12
Atmospheric deposition	7.00	0.00	0.00	0.00
<b>Total nutrients applied</b>	<b>361.26</b>	<b>31.93</b>	<b>288.40</b>	<b>3,926.71</b>
Anticipated crop nutrient removal	198.00	30.60	149.40	0.00
Actual crop nutrient removal	264.14	35.16	244.10	1,429.97
<b>Nutrient balance</b>	<b>97.12</b>	<b>-3.23</b>	<b>44.30</b>	<b>2,496.74</b>
Applied to removed ratio	1.37	0.91	1.18	2.75

Fresh water applied
40,447,500.00 gallons
1,489.54 acre-inches
28.65 inches/acre

Process wastewater applied
3,453,000.00 gallons
127.16 acre-inches
2.45 inches/acre

Total harvests for the crop
1 harvests

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

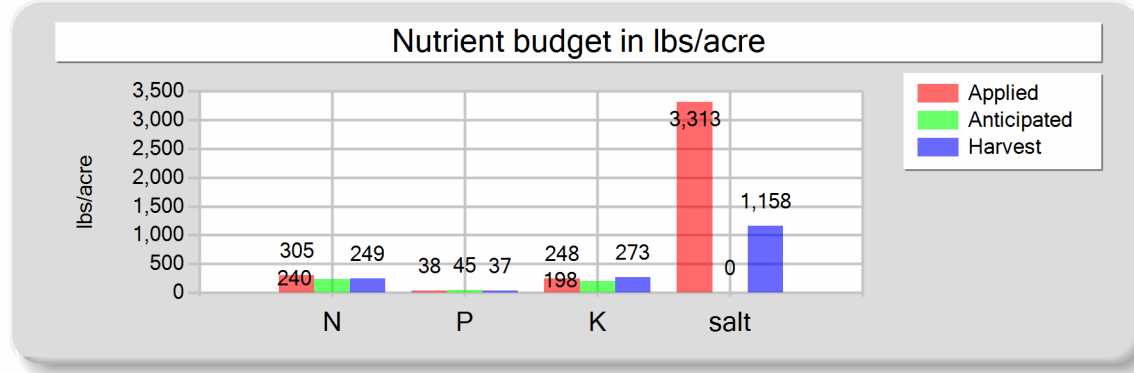
Reporting period 01/01/2023 to 12/31/2023.

16 - 06/28/2023: Corn, silage

Field name: 16

Crop: Corn, silage

Plant date: 06/28/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	279.77	37.92	247.82	2,225.77
Fresh water	18.55	0.00	0.00	1,087.29
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	305.31	37.92	247.82	3,313.06
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	248.64	37.20	273.31	1,157.78
Nutrient balance	56.67	0.72	-25.49	2,155.28
Applied to removed ratio	1.23	1.02	0.91	2.86

Fresh water applied
44,734,393.00 gallons
1,647.42 acre-inches
31.68 inches/acre

Process wastewater applied
3,210,500.00 gallons
118.23 acre-inches
2.27 inches/acre

Total harvests for the crop
1 harvests

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

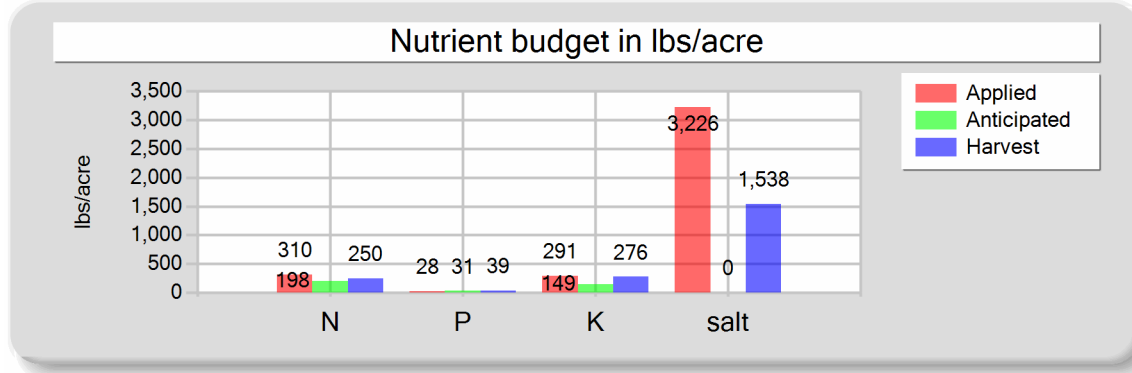
Reporting period 01/01/2023 to 12/31/2023.

17 - 11/28/2022: Wheat, silage, soft dough

Field name: 17

Crop: Wheat, silage, soft dough

Plant date: 11/28/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	300.57	27.77	290.77	2,635.43
Fresh water	2.68	0.00	0.00	590.66
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	310.26	27.77	290.77	3,226.10
Anticipated crop nutrient removal	198.00	30.60	149.40	0.00
Actual crop nutrient removal	249.92	38.62	275.89	1,538.48
Nutrient balance	60.33	-10.85	14.88	1,687.62
Applied to removed ratio	1.24	0.72	1.05	2.10

Fresh water applied
52,763,750.00 gallons
1,943.11 acre-inches
23.70 inches/acre

Process wastewater applied
5,350,500.00 gallons
197.04 acre-inches
2.40 inches/acre

Total harvests for the crop
1 harvests

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

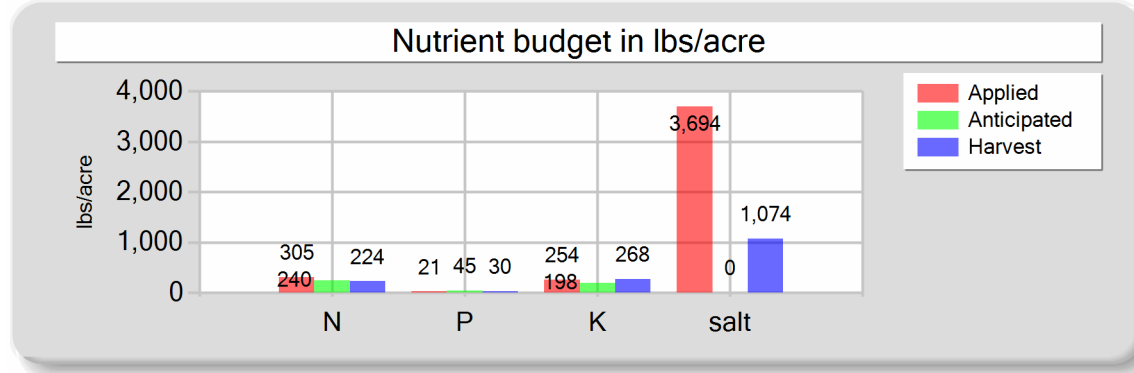
Reporting period 01/01/2023 to 12/31/2023.

17 - 06/22/2023: Corn, silage

Field name: 17

Crop: Corn, silage

Plant date: 06/22/2023



	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	262.83	21.25	254.04	2,384.07
Fresh water	34.91	0.00	0.00	1,310.39
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	304.75	21.25	254.04	3,694.46
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	224.19	29.77	267.52	1,073.85
Nutrient balance	80.56	-8.51	-13.48	2,620.62
Applied to removed ratio	1.36	0.71	0.95	3.44

Fresh water applied
70,975,000.00 gallons
2,613.77 acre-inches
31.88 inches/acre

Process wastewater applied
4,800,500.00 gallons
176.79 acre-inches
2.16 inches/acre

Total harvests for the crop
1 harvests

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

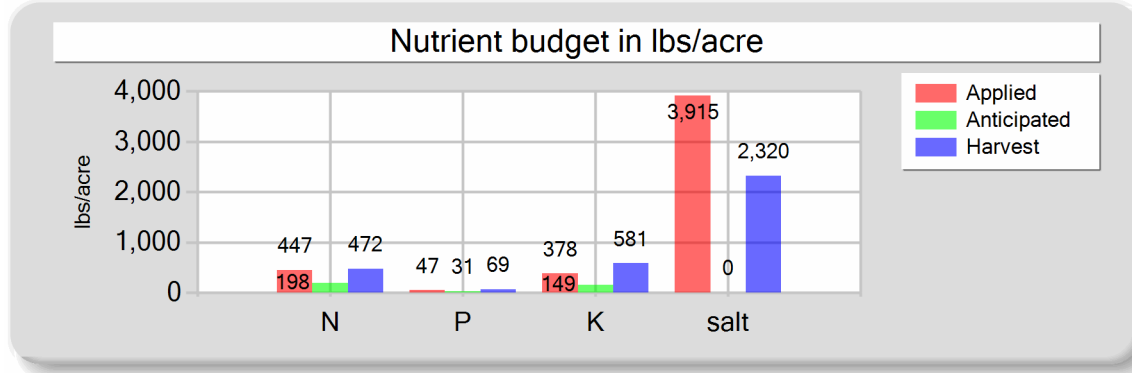
Reporting period 01/01/2023 to 12/31/2023.

18 - 12/12/2022: Wheat, silage, soft dough

Field name: 18

Crop: Wheat, silage, soft dough

Plant date: 12/12/2022



	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	405.57	46.94	378.09	2,807.78
Fresh water	34.14	0.00	0.00	1,107.25
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	446.71	46.94	378.09	3,915.04
Anticipated crop nutrient removal	198.00	30.60	149.40	0.00
Actual crop nutrient removal	471.90	69.20	580.95	2,319.83
Nutrient balance	-25.19	-22.25	-202.86	1,595.20
Applied to removed ratio	0.95	0.68	0.65	1.69

Fresh water applied
23,317,500.00 gallons
858.70 acre-inches
19.52 inches/acre

Process wastewater applied
3,916,500.00 gallons
144.23 acre-inches
3.28 inches/acre

Total harvests for the crop
1 harvests

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

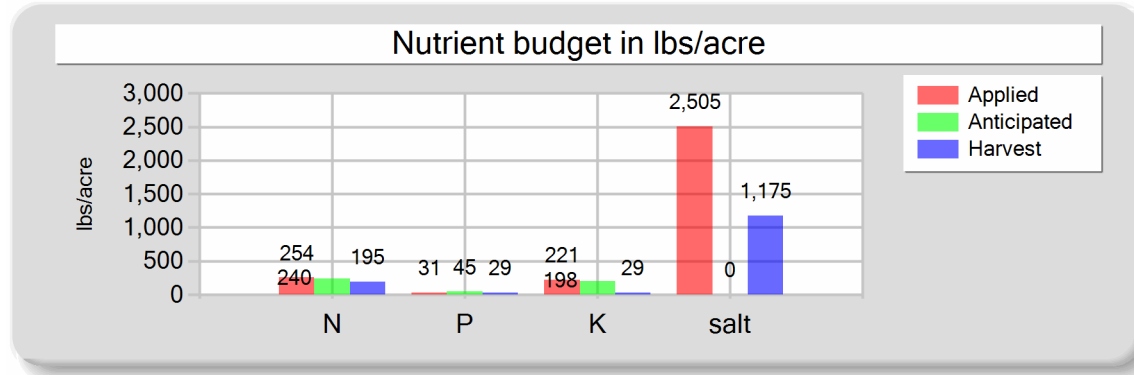
Reporting period 01/01/2023 to 12/31/2023.

18 - 05/19/2023: Corn, silage

Field name: 18

Crop: Corn, silage

Plant date: 05/19/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	243.89	30.75	221.46	1,819.88
Fresh water	3.12	0.00	0.00	685.35
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	254.01	30.75	221.46	2,505.23
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	195.30	29.43	29.43	1,174.82
Nutrient balance	58.71	1.32	192.03	1,330.41
Applied to removed ratio	1.30	1.04	7.53	2.13

Fresh water applied
32,851,000.00 <i>gallons</i>
1,209.79 <i>acre-inches</i>
27.50 <i>inches/acre</i>

Process wastewater applied
2,362,000.00 <i>gallons</i>
86.98 <i>acre-inches</i>
1.98 <i>inches/acre</i>

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

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

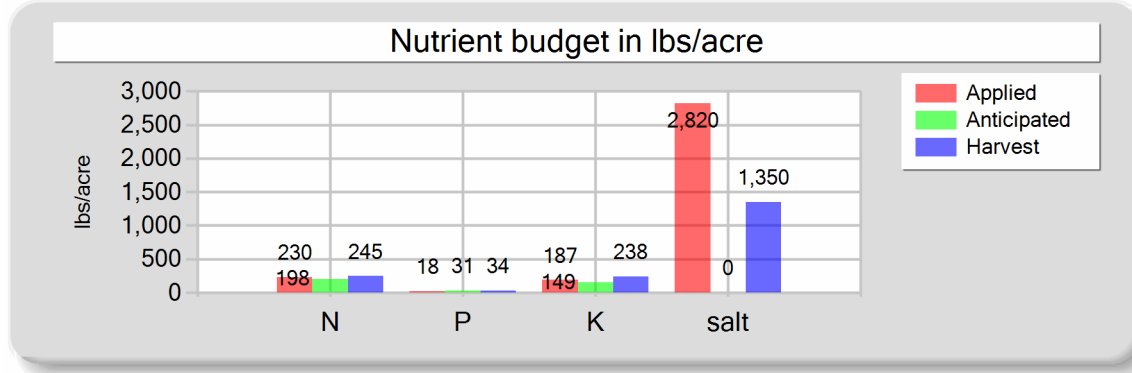
Reporting period 01/01/2023 to 12/31/2023.

19 - 10/29/2022: Wheat, silage, soft dough

Field name: 19

Crop: Wheat, silage, soft dough

Plant date: 10/29/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	26,470,500.00 <i>gallons</i>
Plowdown credit	0.00	0.00	0.00	0.00	974.82 <i>acre-inches</i>
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	24.37 <i>inches/acre</i>
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	193.82	17.91	187.50	1,699.40	Process wastewater applied
Fresh water	29.16	0.00	0.00	1,120.85	1,683,000.00 <i>gallons</i>
Atmospheric deposition	7.00	0.00	0.00	0.00	61.98 <i>acre-inches</i>
Total nutrients applied	229.98	17.91	187.50	2,820.25	1.55 <i>inches/acre</i>
Anticipated crop nutrient removal	198.00	30.60	149.40	0.00	
Actual crop nutrient removal	245.24	33.53	238.31	1,349.52	Total harvests for the crop
Nutrient balance	-15.26	-15.62	-50.82	1,470.73	1 <i>harvests</i>
Applied to removed ratio	0.94	0.53	0.79	2.09	

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

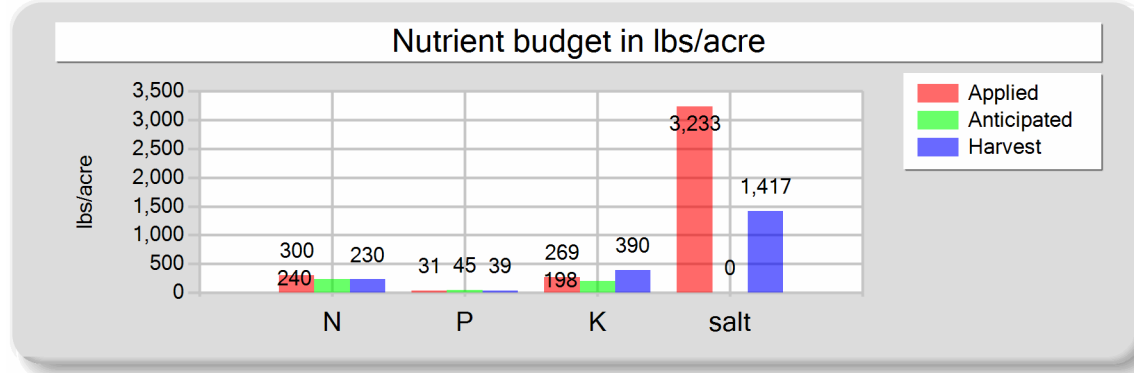
Reporting period 01/01/2023 to 12/31/2023.

19 - 06/12/2023: Corn, silage

Field name: 19

Crop: Corn, silage

Plant date: 06/12/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	289.75	31.08	268.76	2,472.26
Fresh water	3.46	0.00	0.00	760.57
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	300.20	31.08	268.76	3,232.83
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	229.71	39.01	390.07	1,417.26
Nutrient balance	70.49	-7.93	-121.31	1,815.57
Applied to removed ratio	1.31	0.80	0.69	2.28

Fresh water applied
33,141,893.00 <i>gallons</i>
1,220.50 <i>acre-inches</i>
30.51 <i>inches/acre</i>

Process wastewater applied
2,570,000.00 <i>gallons</i>
94.64 <i>acre-inches</i>
2.37 <i>inches/acre</i>

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

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

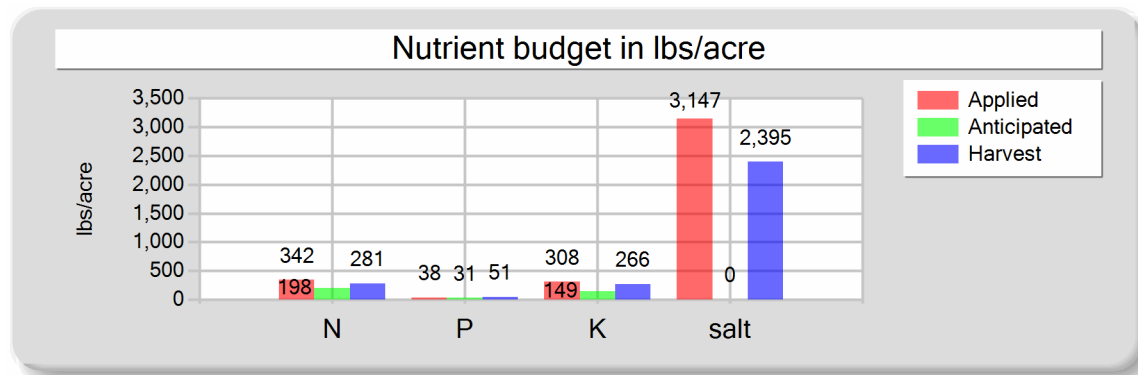
Reporting period 01/01/2023 to 12/31/2023.

2 - 11/22/2022: Wheat, silage, soft dough

Field name: 2

Crop: Wheat, silage, soft dough

Plant date: 11/22/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	330.57	38.26	308.17	2,288.59
Fresh water	4.43	0.00	0.00	858.46
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	342.01	38.26	308.17	3,147.05
Anticipated crop nutrient removal	198.00	30.60	149.40	0.00
Actual crop nutrient removal	281.34	50.75	266.13	2,395.17
Nutrient balance	60.67	-12.49	42.04	751.88
Applied to removed ratio	1.22	0.75	1.16	1.31

Fresh water applied
55,391,250.00 <i>gallons</i>
2,039.87 <i>acre-inches</i>
26.49 <i>inches/acre</i>

Process wastewater applied
5,586,500.00 <i>gallons</i>
205.73 <i>acre-inches</i>
2.67 <i>inches/acre</i>

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

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

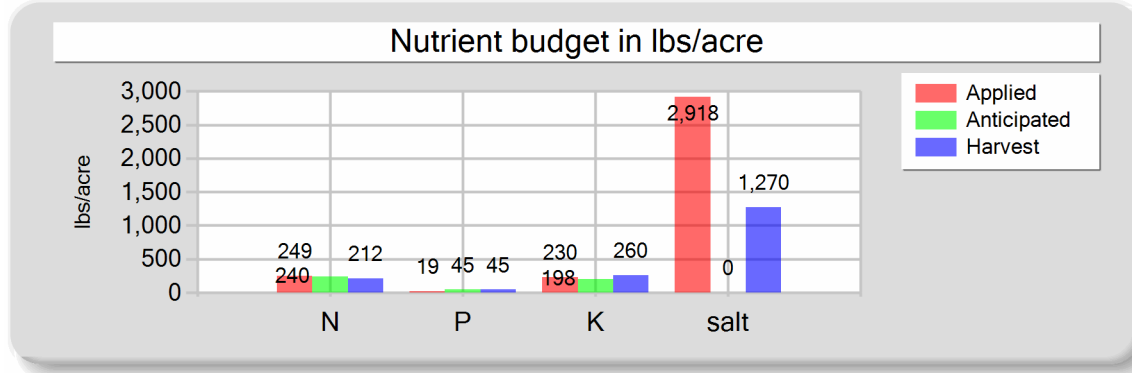
Reporting period 01/01/2023 to 12/31/2023.

2 - 06/05/2023: Corn, silage

Field name: 2

Crop: Corn, silage

Plant date: 06/05/2023



	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	238.39	19.27	230.41	2,162.32
Fresh water	3.43	0.00	0.00	755.57
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	248.82	19.27	230.41	2,917.89
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	211.68	44.55	260.06	1,270.08
Nutrient balance	37.14	-25.28	-29.65	1,647.81
Applied to removed ratio	1.18	0.43	0.89	2.30

Fresh water applied
63,379,500.00 <i>gallons</i>
2,334.05 <i>acre-inches</i>
30.31 <i>inches/acre</i>

Process wastewater applied
4,088,500.00 <i>gallons</i>
150.57 <i>acre-inches</i>
1.96 <i>inches/acre</i>

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

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

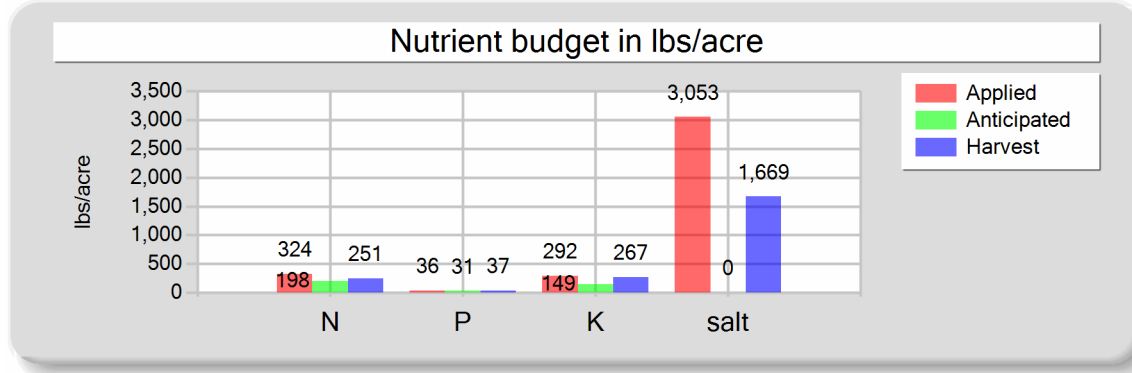
Reporting period 01/01/2023 to 12/31/2023.

3 - 11/18/2022: Wheat, silage, soft dough

Field name: 3

Crop: Wheat, silage, soft dough

Plant date: 11/18/2022



	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	59,086,250.00 <i>gallons</i>
Plowdown credit	0.00	0.00	0.00	0.00	2,175.95 <i>acre-inches</i>
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	28.26 <i>inches/acre</i>
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	313.41	36.28	292.17	2,169.78	Process wastewater applied
Fresh water	3.27	0.00	0.00	883.47	5,296,500.00 <i>gallons</i>
Atmospheric deposition	7.00	0.00	0.00	0.00	195.05 <i>acre-inches</i>
Total nutrients applied	323.68	36.28	292.17	3,053.26	2.53 <i>inches/acre</i>
Anticipated crop nutrient removal	198.00	30.60	149.40	0.00	
Actual crop nutrient removal	251.23	37.34	266.71	1,669.11	Total harvests for the crop
Nutrient balance	72.46	-1.06	25.46	1,384.15	1 <i>harvests</i>
Applied to removed ratio	1.29	0.97	1.10	1.83	

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

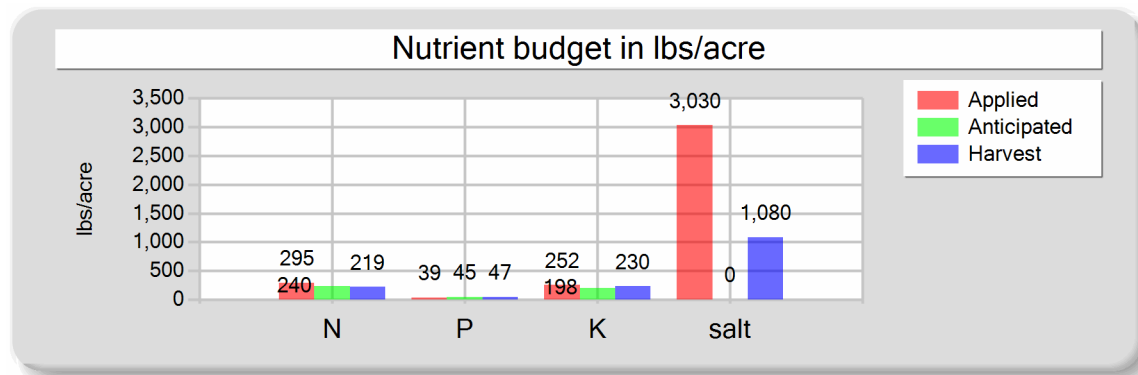
Reporting period 01/01/2023 to 12/31/2023.

3 - 06/03/2023: Corn, silage

Field name: 3

Crop: Corn, silage

Plant date: 06/03/2023



	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	64,059,857.00 <i>gallons</i>
Plowdown credit	0.00	0.00	0.00	0.00	2,359.11 <i>acre-inches</i>
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	30.64 <i>inches/acre</i>
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	284.83	38.61	252.31	2,266.03	Process wastewater applied
Fresh water	3.47	0.00	0.00	763.69	4,840,000.00 <i>gallons</i>
Atmospheric deposition	7.00	0.00	0.00	0.00	178.24 <i>acre-inches</i>
Total nutrients applied	295.30	38.61	252.31	3,029.71	2.31 <i>inches/acre</i>
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00	
Actual crop nutrient removal	219.40	47.22	229.84	1,080.26	Total harvests for the crop
Nutrient balance	75.90	-8.62	22.46	1,949.45	1 <i>harvests</i>
Applied to removed ratio	1.35	0.82	1.10	2.80	

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

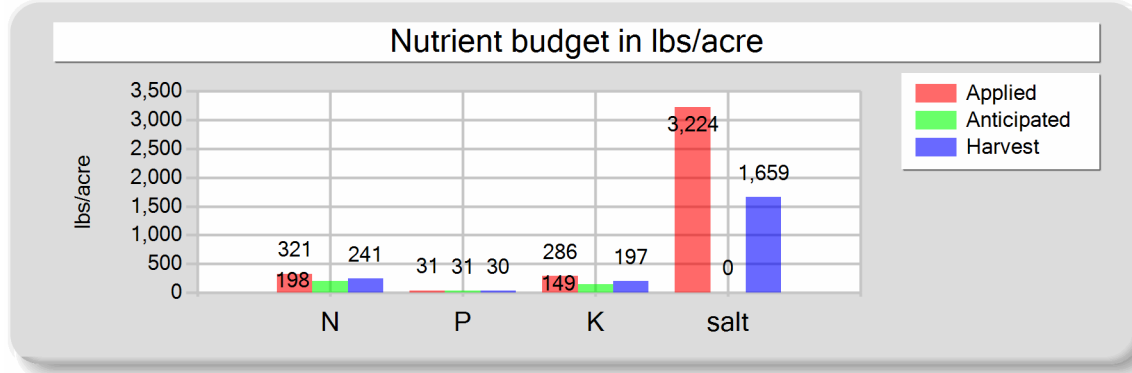
Reporting period 01/01/2023 to 12/31/2023.

4 - 11/04/2022: Wheat, silage, soft dough

Field name: 4

Crop: Wheat, silage, soft dough

Plant date: 11/04/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	301.00	31.34	285.87	2,360.29
Fresh water	13.49	0.00	0.00	864.07
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	321.49	31.34	285.87	3,224.36
Anticipated crop nutrient removal	198.00	30.60	149.40	0.00
Actual crop nutrient removal	241.27	29.86	197.40	1,658.52
Nutrient balance	80.22	1.48	88.47	1,565.84
Applied to removed ratio	1.33	1.05	1.45	1.94

Fresh water applied
56,037,600.00 gallons
2,063.67 acre-inches
27.15 inches/acre

Process wastewater applied
4,993,500.00 gallons
183.89 acre-inches
2.42 inches/acre

Total harvests for the crop
1 harvests

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

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

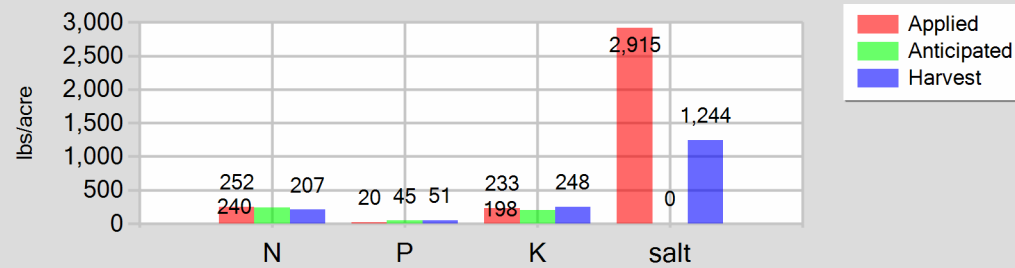
4 - 06/09/2023: Corn, silage

Field name: 4

Crop: Corn, silage

Plant date: 06/09/2023

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	241.52	19.53	233.44	2,190.77
Fresh water	3.29	0.00	0.00	723.92
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	251.81	19.53	233.44	2,914.69
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	207.49	50.78	248.46	1,244.48
Nutrient balance	44.33	-31.25	-15.02	1,670.21
Applied to removed ratio	1.21	0.38	0.94	2.34

Fresh water applied
59,935,500.00 gallons
2,207.22 acre-inches
29.04 inches/acre
Process wastewater applied
4,088,500.00 gallons
150.57 acre-inches
1.98 inches/acre
Total harvests for the crop
1 harvests

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

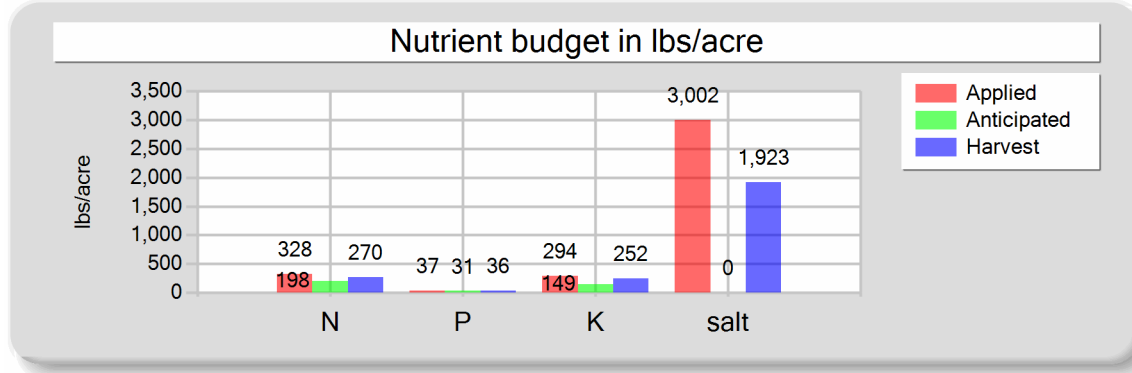
Reporting period 01/01/2023 to 12/31/2023.

5 - 11/18/2022: Wheat, silage, soft dough

Field name: 5

Crop: Wheat, silage, soft dough

Plant date: 11/18/2022



	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	315.76	36.55	294.36	2,186.01
Fresh water	4.91	0.00	0.00	816.11
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	327.67	36.55	294.36	3,002.12
Anticipated crop nutrient removal	198.00	30.60	149.40	0.00
Actual crop nutrient removal	269.59	36.33	251.51	1,923.31
Nutrient balance	58.08	0.22	42.85	1,078.81
Applied to removed ratio	1.22	1.01	1.17	1.56

Fresh water applied
64,383,107.00 gallons
2,371.01 acre-inches
29.64 inches/acre

Process wastewater applied
5,544,000.00 gallons
204.17 acre-inches
2.55 inches/acre

Total harvests for the crop
1 harvests

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

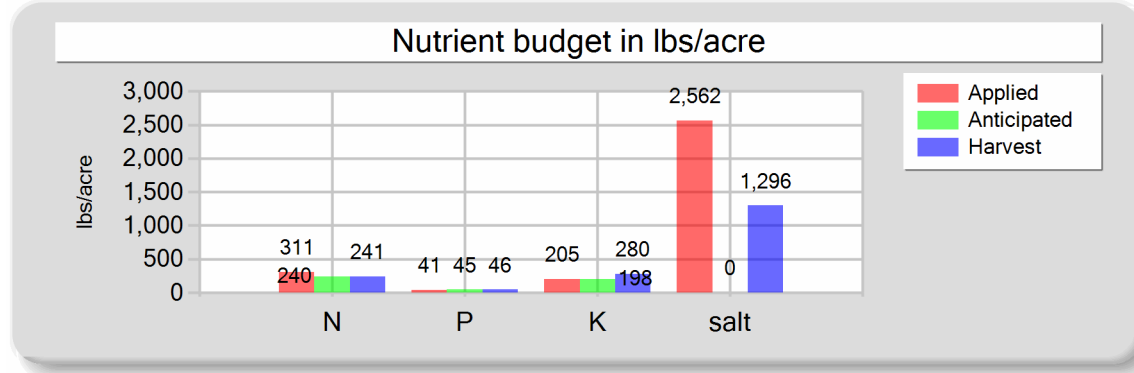
Reporting period 01/01/2023 to 12/31/2023.

5 - 06/22/2023: Corn, silage

Field name: 5

Crop: Corn, silage

Plant date: 06/22/2023



	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	300.42	40.98	204.63	1,765.40
Fresh water	3.62	0.00	0.00	796.39
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	311.04	40.98	204.63	2,561.79
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	240.65	45.53	279.68	1,296.49
Nutrient balance	70.39	-4.55	-75.05	1,265.30
Applied to removed ratio	1.29	0.90	0.73	1.98

Fresh water applied
69,405,929.00 gallons
2,555.98 acre-inches
31.95 inches/acre

Process wastewater applied
4,808,000.00 gallons
177.06 acre-inches
2.21 inches/acre

Total harvests for the crop
1 harvests

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

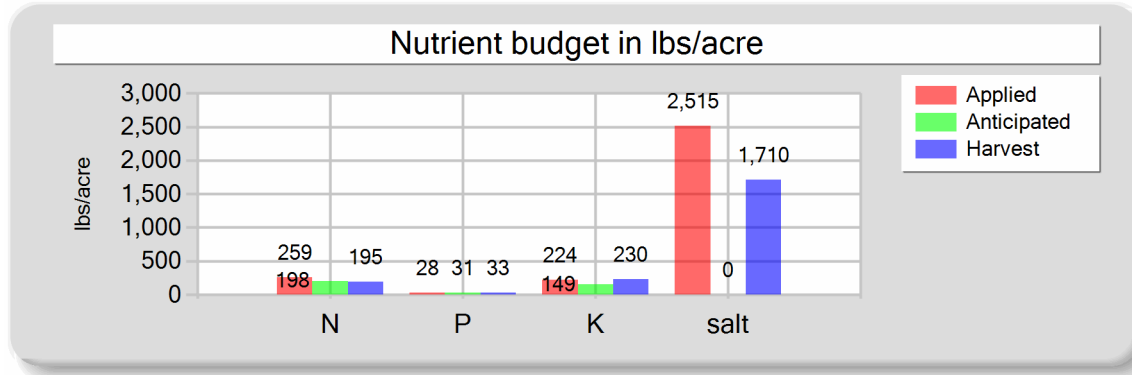
Reporting period 01/01/2023 to 12/31/2023.

6 - 11/14/2022: Wheat, silage, soft dough

Field name: 6

Crop: Wheat, silage, soft dough

Plant date: 11/14/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	239.88	27.77	223.63	1,660.73
Fresh water	11.86	0.00	0.00	853.98
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	258.74	27.77	223.63	2,514.71
Anticipated crop nutrient removal	198.00	30.60	149.40	0.00
Actual crop nutrient removal	194.64	32.73	230.02	1,710.43
Nutrient balance	64.10	-4.97	-6.40	804.28
Applied to removed ratio	1.33	0.85	0.97	1.47

Fresh water applied
33,451,750.00 gallons
1,231.91 acre-inches
28.00 inches/acre

Process wastewater applied
2,316,500.00 gallons
85.31 acre-inches
1.94 inches/acre

Total harvests for the crop
1 harvests

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

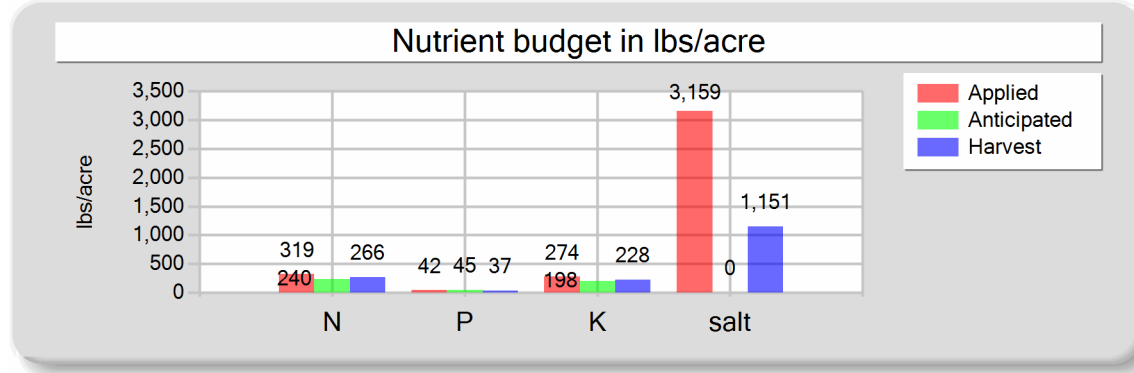
Reporting period 01/01/2023 to 12/31/2023.

6 - 06/14/2023: Corn, silage

Field name: 6

Crop: Corn, silage

Plant date: 06/14/2023



	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	309.26	41.92	273.95	2,460.44
Fresh water	3.18	0.00	0.00	698.59
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	319.44	41.92	273.95	3,159.03
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	266.12	36.62	228.10	1,150.52
Nutrient balance	53.32	5.30	45.85	2,008.51
Applied to removed ratio	1.20	1.14	1.20	2.75

Fresh water applied
33,485,357.00 gallons
1,233.15 acre-inches
28.03 inches/acre

Process wastewater applied
3,003,000.00 gallons
110.59 acre-inches
2.51 inches/acre

Total harvests for the crop
1 harvests

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

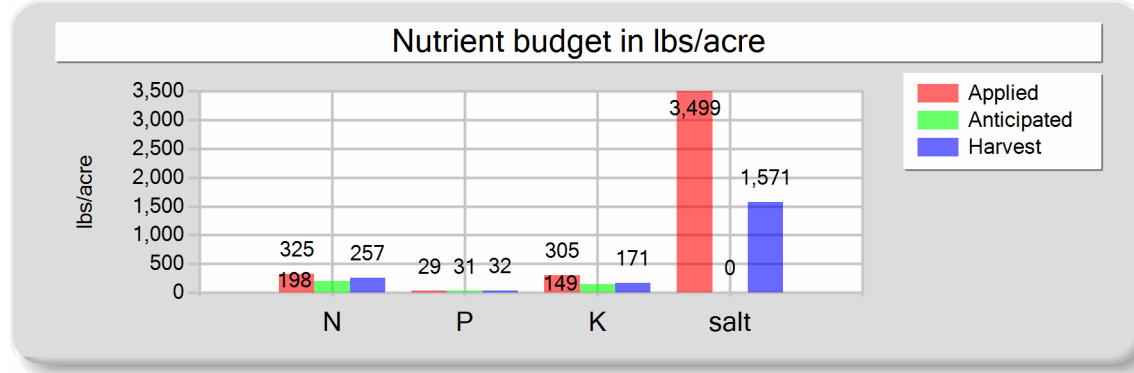
Reporting period 01/01/2023 to 12/31/2023.

9/10 - 10/21/2022: Wheat, silage, soft dough

Field name: 9/10

Crop: Wheat, silage, soft dough

Plant date: 10/21/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	61,959,000.00 <i>gallons</i>
Plowdown credit	0.00	0.00	0.00	0.00	2,281.74 <i>acre-inches</i>
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	29.63 <i>inches/acre</i>
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	314.78	29.08	304.51	2,760.01	Process wastewater applied
Fresh water	3.36	0.00	0.00	738.64	5,261,750.00 <i>gallons</i>
Atmospheric deposition	7.00	0.00	0.00	0.00	193.77 <i>acre-inches</i>
Total nutrients applied	325.14	29.08	304.51	3,498.65	2.52 <i>inches/acre</i>
Anticipated crop nutrient removal	198.00	30.60	149.40	0.00	
Actual crop nutrient removal	256.84	32.18	170.72	1,571.25	Total harvests for the crop
Nutrient balance	68.30	-3.10	133.79	1,927.40	1 <i>harvests</i>
Applied to removed ratio	1.27	0.90	1.78	2.23	

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

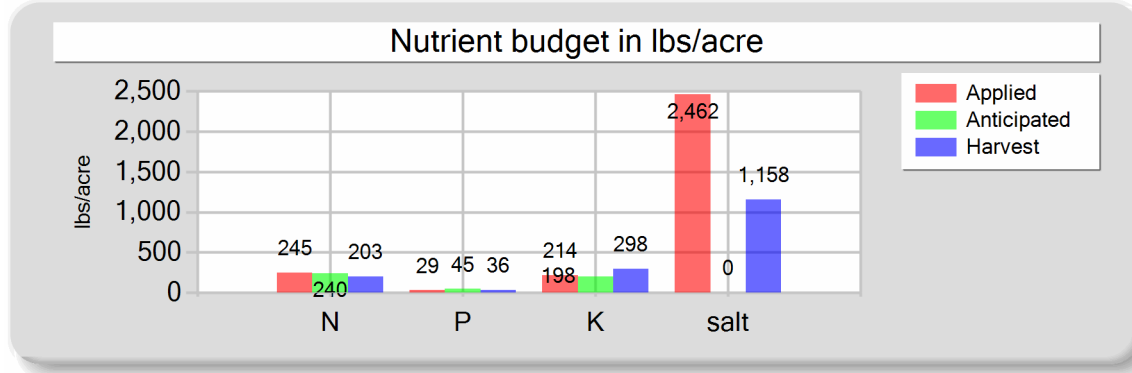
Reporting period 01/01/2023 to 12/31/2023.

9/10 - 05/29/2023: Corn, silage

Field name: 9/10

Crop: Corn, silage

Plant date: 05/29/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	235.21	29.45	214.05	1,744.64
Fresh water	3.26	0.00	0.00	716.89
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	245.47	29.45	214.05	2,461.53
Anticipated crop nutrient removal	240.00	45.00	198.00	0.00
Actual crop nutrient removal	203.11	35.95	298.37	1,157.54
Nutrient balance	42.36	-6.49	-84.32	1,303.98
Applied to removed ratio	1.21	0.82	0.72	2.13

Fresh water applied
60,134,250.00 gallons
2,214.54 acre-inches
28.76 inches/acre

Process wastewater applied
3,985,500.00 gallons
146.77 acre-inches
1.91 inches/acre

Total harvests for the crop
1 harvests

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

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

## NUTRIENT ANALYSES

## A. MANURE ANALYSES

## Solid Manure M7

Sample and source description: Solid Manure M7

Sample date: 01/09/2023 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 83.1 %

	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	20,700.00	5,150.00	5,070.00	14,300.00	8,240.00	690.00	2,500.00	855.00		14.80
DL	1,000.00	200.00	500.00	500.00	500.00	500.00	100.00	100.00		0.10

## B. PROCESS WASTEWATER ANALYSES

## Aerated Lagoon H3

Sample and source description: Aerated Lagoon H3

Sample date: 01/12/2023 Material type: Process wastewater Source of analysis: Lab analysis pH:

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	552.00	358.00			51.00	534.00								6,120.00	4,840
DL	0.50	0.50			0.20	0.50								100.00	10

## Lagoon H4 + PH

Sample and source description: Lagoon H4 + PH

Sample date: 01/13/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 8.20

	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	546.00	339.00			63.20	509.00								5,750.00	3,780
DL	0.50	0.50			0.20	0.50								100.00	10

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

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

**Aerated Lagoon Capstone 2**

Sample and source description: Aerated Lagoon Capstone 2

Sample date: 06/02/2023    Material type: Process wastewater    Source of analysis: Lab analysis    pH:         

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
<b>Value</b>	543.00	409.00			73.60	481.00								6,610.00	4,320
<b>DL</b>	0.50	0.50			0.20	0.50								100.00	10

**Aerated Lagoon Capstone 1**

Sample and source description: Aerated Lagoon Capstone 1

Sample date: 06/02/2023    Material type: Process wastewater    Source of analysis: Lab analysis    pH:         

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
<b>Value</b>	538.00	414.00			43.50	520.00								6,500.00	4,880
<b>DL</b>	0.50	0.50			0.20	0.50								100.00	10

**Lagoon Capstone 1**

Sample and source description: Lagoon Capstone 1

Sample date: 10/19/2023    Material type: Process wastewater    Source of analysis: Lab analysis    pH:         

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
<b>Value</b>	599.00	300.00			81.70	408.00								5,460.00	3,520
<b>DL</b>	0.50	0.50			0.20	0.50								100.00	10

**Lagoon Capstone 2**

Sample and source description: Lagoon Capstone 2

Sample date: 10/19/2023    Material type: Process wastewater    Source of analysis: Lab analysis    pH:         

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
<b>Value</b>	546.00	412.00			43.90	440.00								6,600.00	3,800
<b>DL</b>	0.50	0.50			0.20	0.50								100.00	10

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

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

C. FRESH WATER ANALYSES

11

Well water H14

Sample description: Well water H14

Sample date: 11/22/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
<b>Value</b>		0.00	2.91	200.70	9.41	37.90	104.00	0.00	12.60	28.40	424.00	230
<b>DL</b>		0.50	0.50	0.50	0.50	0.50	2.00	2.00	0.50	0.50	100.00	10

13

Well water H14

Sample description: Well water H14

Sample date: 11/22/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
<b>Value</b>		0.00	18.30	77.50	24.00	46.50	276.00	0.00	40.50	48.20	839.00	430
<b>DL</b>		0.50	0.50	0.50	0.50	0.50	2.00	2.00	0.50	0.50	100.00	10

15

Well water H14

Sample description: Well water H14

Sample date: 11/22/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
<b>Value</b>		0.00	7.29	57.00	17.40	41.40	246.00	0.00	33.10	33.10	650.00	340
<b>DL</b>		0.50	0.50	0.50	0.50	0.50	2.00	2.00	0.50	0.50	100.00	10

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

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

15

## Well water H14

Sample description: Well water H14Sample date: 11/22/2023 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	7.29	57.00	17.40	41.40	246.00	0.00	33.10	33.10	650.00	340
DL		0.50	0.50	0.50	0.50	0.50	0.50	2.00	0.50	0.50	100.00	10

16

## Well Water H14

Sample description: Well Water H14Sample date: 11/22/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value		0.00	0.63	61.00	19.60	77.80	160.00	0.00	4.98	166.00	881.00	450
DL		0.50	0.50	0.50	0.50	0.50	2.00	2.00	0.50	0.50	10.00	10

2

## Well water H14

Sample description: Well water H14Sample date: 11/22/2023 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	28.20	98.20	29.10	74.00	330.00	0.00	46.60	50.50	1,540.00	590
DL		0.50	0.50	0.50	0.50	0.50	2.00	2.00	0.50	0.50	100.00	10

21

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

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

21

**Well water H14**

Sample description: Well water H14

Sample date: 11/22/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
<b>Value</b>		0.00	25.00	136.00	39.40	78.90	378.00	0.00	55.30	93.20	1,260.00	645
<b>DL</b>		0.50	0.50	0.50	0.50	0.50	2.00	2.00	0.50	0.50	100.00	10

22

**Well water H14**

Sample description: Well water H14

Sample date: 11/22/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
<b>Value</b>		0.00	0.00	61.20	19.50	77.60	158.00	0.00	5.60	168.00	890.00	465
<b>DL</b>		0.50	0.50	0.50	0.50	0.50	2.00	2.00	0.50	0.50	100.00	10

23

**Well water H14**

Sample description: Well water H14

Sample date: 11/22/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
<b>Value</b>		0.00	3.82	37.50	9.72	31.50	144.00	0.00	14.50	34.40	436.00	210
<b>DL</b>		0.50	0.50	0.50	0.50	0.50	2.00	2.00	0.50	0.50	100.00	10

3

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

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

3

## Well water H14

Sample description: Well water H14Sample date: 11/22/2023 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	41.40	166.00	47.00	80.40	358.00	0.00	86.50	133.00	1,520.00	850
DL		0.50	0.50	0.50	0.50	0.50	2.00	2.00	0.50	0.50	100.00	10

35

## Well water H14

Sample description: Well water H14Sample date: 11/22/2023 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	1.90	35.60	9.28	37.80	128.00	0.00	7.69	52.90	455.00	210
DL		0.50	0.50	0.50	0.50	0.50	2.00	2.00	0.50	0.50	100.00	10

6

## Well water H14

Sample description: Well water H14Sample date: 11/22/2023 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	45.40	156.00	48.40	102.00	458.00	0.00	60.50	95.30	973.00	850
DL		0.50	0.50	0.50	0.50	0.50	2.00	2.00	0.50	0.50	100.00	10

61

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

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

61

**Well water H14**

Sample description: Well water H14

Sample date: 11/22/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
<b>Value</b>		0.00	1.94	34.40	9.11	37.60	128.00	0.00	10.40	52.20	457.00	215
<b>DL</b>		0.50	0.50	0.50	0.50	0.50	2.00	2.00	0.50	0.50	100.00	10

66

**Well water H14**

Sample description: Well water H14

Sample date: 11/22/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
<b>Value</b>		0.00	25.70	114.00	32.70	75.00	324.00	0.00	45.40	84.10	1,115.00	600
<b>DL</b>		0.50	0.50	0.50	0.50	0.50	2.00	2.00	0.50	0.50	100.00	10

9

**Well water H14**

Sample description: Well water H14

Sample date: 11/22/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
<b>Value</b>		0.00	20.10	90.30	26.50	65.20	286.00	0.00	37.10	72.30	1,250.00	500
<b>DL</b>		0.50	0.50	0.50	0.50	0.50	2.00	2.00	0.50	0.50	100.00	10

D-14

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

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

D-14

**Well water H14**

Sample description: Well water H14

Sample date: 11/22/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
<b>Value</b>		0.00	50.50	167.00	49.80	139.00	392.00	0.00	74.10	111.00	1,690.00	980
<b>DL</b>		0.50	0.50	0.50	0.50	0.50	2.00	2.00	0.50	0.50	100.00	10

D-19

**Well water H14**

Sample description: Well water H14

Sample date: 11/22/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
<b>Value</b>		0.00	26.20	134.00	40.50	74.50	420.00	0.00	55.20	85.00	1,300.00	695
<b>DL</b>		0.50	0.50	0.50	0.50	0.50	2.00	2.00	0.50	0.50	100.00	10

D-7/8

**Well water H14**

Sample description: Well water H14

Sample date: 11/22/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
<b>Value</b>		0.00	1.25	35.20	9.37	38.90	138.00	0.00	8.93	53.50	465.00	215
<b>DL</b>		0.50	0.50	0.50	0.50	0.50	2.00	2.00	0.50	0.50	100.00	10

M.I.D Water

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

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

**M.I.D Water**

**H14**

Sample description: H14

Sample date: 06/02/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
<b>Value</b>		0.50	0.00	6.21	1.57	4.45	26.00	0.00	3.17	3.45	100.00	110
<b>DL</b>		0.50	0.50	0.50	0.50	0.50	0.20	0.20	0.50	0.50	100.00	10

**D. SOIL ANALYSES**

*No soil analyses entered.*

**E. PLANT TISSUE ANALYSES**

**1 - 10/28/2022: Wheat, silage, soft dough**

**F18**

Sample and source description: F18

Sample date: 06/01/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 62.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	15,700.00	2,680.00	13,700.00		5.35
<b>DL</b>	1,000.00	200.00	500.00		0.10

**1 - 06/27/2023: Corn, silage**

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

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

1 - 06/27/2023: Corn, silage

F18

Sample and source description: F18

Sample date: 11/22/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 65.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	11,400.00	1,910.00	11,100.00		6.00
DL	1,000.00	200.00	500.00		0.10

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

F18

Sample and source description: F18

Sample date: 06/01/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 69.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	15,700.00	2,350.00	17,100.00		9.37
DL	1,000.00	200.00	500.00		0.10

11 - 06/07/2023: Corn, silage

F18

Sample and source description: F18

Sample date: 11/22/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 71.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	10,900.00	1,820.00	13,700.00		6.47
DL	1,000.00	200.00	500.00		0.10

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

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

12/13 - 11/12/2022: Wheat, silage, soft dough

F18

Sample and source description: F18

Sample date: 06/01/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 67.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	18,800.00	2,500.00	14,100.00		10.40
<b>DL</b>	1,000.00	200.00	500.00		0.10

12/13 - 06/03/2023: Corn, silage

F18

Sample and source description: F18

Sample date: 11/22/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 70.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	11,200.00	1,890.00	12,300.00		5.97
<b>DL</b>	1,000.00	200.00	500.00		0.10

14 - 11/22/2022: Wheat, silage, soft dough

F18

Sample and source description: F18

Sample date: 06/01/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 46.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	23,200.00	3,470.00	31,800.00		12.80
<b>DL</b>	1,000.00	200.00	500.00		0.10

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

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

14 - 05/16/2023: Corn, silage

F18

Sample and source description: F18

Sample date: 11/22/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 69.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	11,300.00	1,580.00	9,860.00		5.16
DL	1,000.00	200.00	500.00		0.10

15 - 11/19/2022: Wheat, silage, soft dough

F18

Sample and source description: F18

Sample date: 06/01/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 79.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	20,700.00	2,530.00	21,000.00		8.48
DL	1,000.00	200.00	500.00		0.10

15 - 06/15/2023: Corn, silage

F18

Sample and source description: F18

Sample date: 11/22/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 72.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	15,300.00	2,280.00	13,500.00		6.16
DL	1,000.00	200.00	500.00		0.10

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

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

16 - 11/30/2022: Wheat, silage, soft dough

F18

Sample and source description: F18

Sample date: 06/01/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 61.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	14,500.00	1,930.00	13,400.00		7.85
DL	1,000.00	200.00	500.00		0.10

16 - 06/28/2023: Corn, silage

F18

Sample and source description: F18

Sample date: 11/22/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 70.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	13,100.00	1,960.00	14,400.00		6.10
DL	1,000.00	200.00	500.00		0.10

17 - 11/28/2022: Wheat, silage, soft dough

F18

Sample and source description: F18

Sample date: 06/01/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 65.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	15,400.00	2,380.00	17,000.00		9.48
DL	1,000.00	200.00	500.00		0.10

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

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

17 - 06/22/2023: Corn, silage

F18

Sample and source description: F18

Sample date: 11/22/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 71.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	11,900.00	1,580.00	14,200.00		5.70
DL	1,000.00	200.00	500.00		0.10

18 - 12/12/2022: Wheat, silage, soft dough

F18

Sample and source description: F18

Sample date: 06/01/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 60.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	23,800.00	3,490.00	29,300.00		11.70
DL	1,000.00	200.00	500.00		0.10

18 - 05/19/2023: Corn, silage

F18

Sample and source description: F18

Sample date: 11/22/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 67.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	8,960.00	1,350.00	13,500.00		5.39
DL	1,000.00	200.00	500.00		0.10

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

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

19 - 10/29/2022: Wheat, silage, soft dough

F18

Sample and source description: F18

Sample date: 06/01/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 70.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	17,700.00	2,420.00	17,200.00		9.74
DL	1,000.00	200.00	500.00		0.10

19 - 06/12/2023: Corn, silage

F18

Sample and source description: F18

Sample date: 06/01/2023 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	10,600.00	1,800.00	18,000.00		6.54
DL	1,000.00	200.00	500.00		0.10

2 - 11/22/2022: Wheat, silage, soft dough

F18

Sample and source description: F18

Sample date: 06/01/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 61.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	14,800.00	2,670.00	14,000.00		12.60
DL	1,000.00	200.00	500.00		0.10

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

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

2 - 06/05/2023: Corn, silage

F18

Sample and source description: F18

Sample date: 11/22/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 70.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	10,500.00	2,210.00	12,900.00		6.30
<b>DL</b>	1,000.00	200.00	500.00		0.10

3 - 11/18/2022: Wheat, silage, soft dough

F18

Sample and source description: F18

Sample date: 06/01/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 63.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	14,600.00	2,170.00	15,500.00		9.70
<b>DL</b>	1,000.00	200.00	500.00		0.10

3 - 06/03/2023: Corn, silage

F18

Sample and source description: F18

Sample date: 11/22/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 69.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	10,500.00	2,260.00	11,000.00		5.17
<b>DL</b>	1,000.00	200.00	500.00		0.10

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

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

4 - 11/04/2022: Wheat, silage, soft dough

F18

Sample and source description: F18

Sample date: 06/01/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 65.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	14,300.00	1,770.00	11,700.00		9.83
DL	1,000.00	200.00	500.00		0.10

4 - 06/09/2023: Corn, silage

F18

Sample and source description: F18

Sample date: 11/22/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 67.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	9,520.00	2,330.00	11,400.00		5.71
DL	1,000.00	200.00	500.00		0.10

5 - 11/18/2022: Wheat, silage, soft dough

F18

Sample and source description: F18

Sample date: 06/01/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 67.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	16,400.00	2,210.00	15,300.00		11.70
DL	1,000.00	200.00	500.00		0.10

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

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

5 - 06/22/2023: Corn, silage

F18

Sample and source description: F18

Sample date: 11/22/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 66.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	11,100.00	2,100.00	12,900.00		5.98
<b>DL</b>	1,000.00	200.00	500.00		0.10

6 - 11/14/2022: Wheat, silage, soft dough

F18

Sample and source description: F18

Sample date: 06/01/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 67.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	13,200.00	2,220.00	15,600.00		11.60
<b>DL</b>	1,000.00	200.00	500.00		0.10

6 - 06/14/2023: Corn, silage

F18

Sample and source description: F18

Sample date: 11/22/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 69.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	13,300.00	1,830.00	11,400.00		5.75
<b>DL</b>	1,000.00	200.00	500.00		0.10

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

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

9/10 - 10/21/2022: Wheat, silage, soft dough

F18

Sample and source description: F18Sample date: 06/01/2023 Source of analysis: Lab analysis Method of reporting: Dry-weightMoisture: 66.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	17,000.00	2,130.00	11,300.00		10.40
<b>DL</b>	1,000.00	200.00	500.00		0.10

9/10 - 05/29/2023: Corn, silage

F18

Sample and source description: F18Sample date: 11/22/2023 Source of analysis: Lab analysis Method of reporting: Dry-weightMoisture: 73.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	11,300.00	2,000.00	16,600.00		6.44
<b>DL</b>	1,000.00	200.00	500.00		0.10

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

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

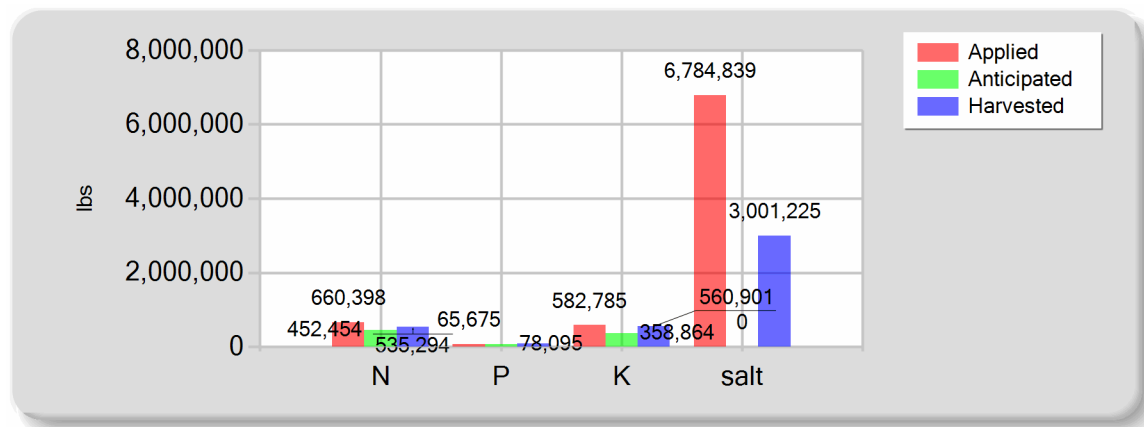
Reporting period 01/01/2023 to 12/31/2023.

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

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

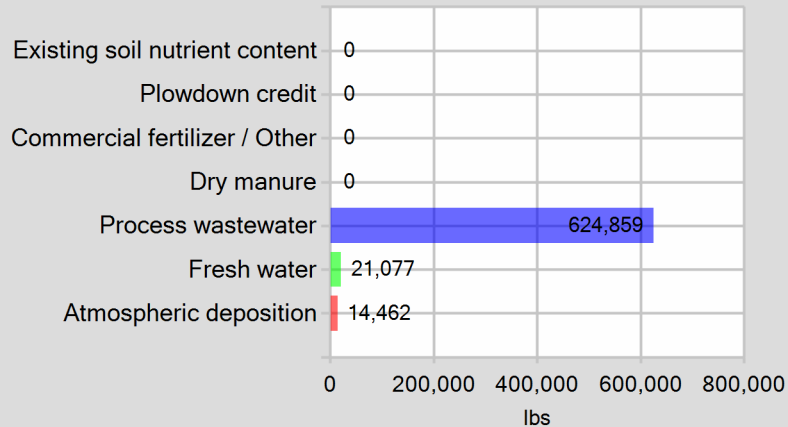
	Total N (lbs)	Total P (lbs)	Total K (lbs)	Total salt (lbs)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	624,859.04	65,674.52	582,785.10	5,014,735.90
Fresh water	21,077.10	0.00	0.00	1,770,102.90
Atmospheric deposition	14,462.00	0.00	0.00	0.00
Total nutrients applied	660,398.14	65,674.52	582,785.10	6,784,838.80
Anticipated crop nutrient removal	452,454.00	78,094.80	358,864.20	0.00
Actual crop nutrient removal	535,294.44	84,305.43	560,900.60	3,001,225.20
Nutrient balance	125,103.70	-18,630.91	21,884.50	3,783,613.60
Applied to removed ratio	1.23	0.78	1.04	2.26

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

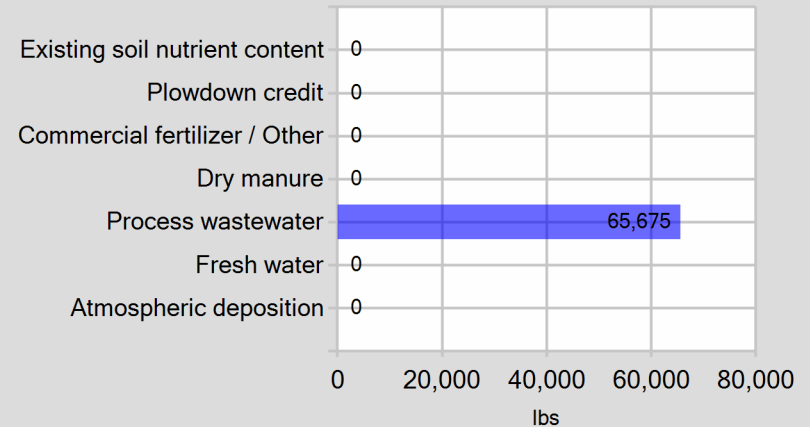


## C. POUNDS OF NUTRIENT APPLIED BY MATERIAL TYPE

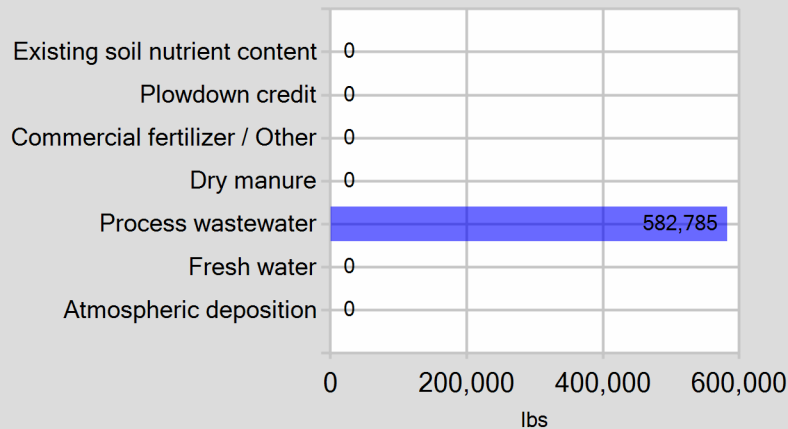
Pounds of nitrogen applied



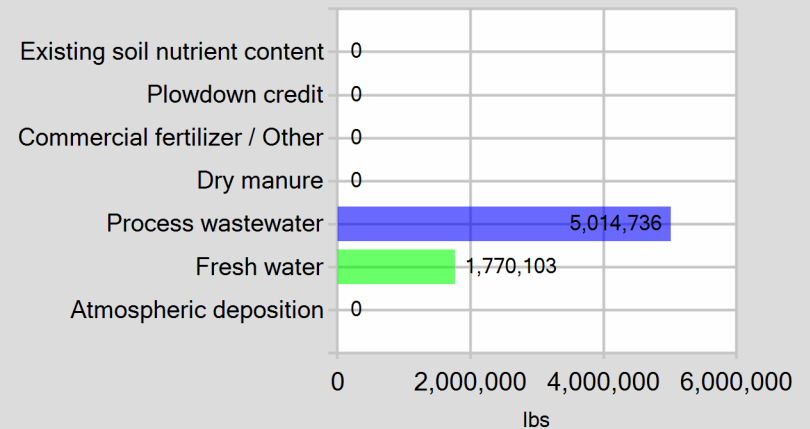
Pounds of phosphorus applied



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**

*No notes entered for this annual report.*

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

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

CERTIFICATION

A. OWNER AND/OR OPERATOR CERTIFICATION

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

*Rob Diepersloot*

SIGNATURE OF OWNER OF FACILITY

Robert Diepersloot

PRINT OR TYPE NAME

Robert Diepersloot

DATE 6-21-24

*Theo VanderMeulen*

SIGNATURE OF OPERATOR OF FACILITY

Theo VanderMeulen

PRINT OR TYPE NAME

Theo VanderMeulen

DATE 6-21-24

**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.