

**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:** Sozinho Dairy #5

Physical address of dairy:

7205 Houston AVE

Number and Street

Hanford

Kings

93230

City

County

Zip Code

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

Date facility was originally placed in operation: 01/01/1970

Regional Water Quality Control Board Basin Plan designation: Tulare Basin

County Assessor Parcel Number(s) for dairy facility:

0016-0020-0011-0000

0016-0020-0019-0000

0016-0200-0005-0000

0016-0200-0028-0000

0016-0200-0035-0000

0016-0200-0041-0000

**B. OPERATORS**

Sozinho, Joe

Operator name: Sozinho, Joe

Telephone no.: (559) 381-3920

Landline      Cellular

12252 7th AVE

Hanford

CA      93230

Mailing Address Number and Street

City

State      Zip Code

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

**C. OWNERS**

Sozinho, Joe

Legal owner name: Sozinho, Joe

Telephone no.: (559) 381-3920

Landline      Cellular

12252 7th AVE

Hanford

CA      93230

Mailing Address Number and Street

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

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**AVAILABLE NUTRIENTS****A. HERD INFORMATION**

	Milk Cows	Dry Cows	Bred Heifers (15-24 mo.)	Heifers (7-14 mo. to breeding)	Calves (4-6 mo.)	Calves (0-3 mo.)
Number open confinement	0	85	200	185	200	200
Number under roof	1,085	0	0	0	0	0
Maximum number	1,085	85	200	185	200	200
Average number	1,085	85	200	185	200	200
Avg live weight (lbs)	1,200	1,300	1,000	800		

Predominant milk cow breed: JerseyAverage milk production: 67 pounds per cow per day**B. MANURE GENERATED**Total manure excreted by the herd: 33,928.31 tons per reporting periodTotal nitrogen from manure: 431,381.74 lbs per reporting periodAfter ammonia losses (30% loss applied): 301,967.22 lbs per reporting periodTotal phosphorus from manure: 70,361.72 lbs per reporting periodTotal potassium from manure: 205,648.98 lbs per reporting periodTotal salt from manure: 530,418.00 lbs per reporting period**C. PROCESS WASTEWATER GENERATED**Process wastewater generated: 32,965,000 gallonsTotal nitrogen generated: 135,808.76 lbsTotal phosphorus generated: 18,084.58 lbsTotal potassium generated: 105,268.76 lbsTotal salt generated: 726,027.60 lbs

$$\begin{aligned}
 & 32,965,000 \text{ gallons applied} \\
 & + 0 \text{ gallons exported} \\
 & - 0 \text{ gallons imported} \\
 & = 32,965,000 \text{ gallons generated}
 \end{aligned}$$

**D. FRESH WATER SOURCES**

Source Description	Type
Barn	Ground water
Canal	Surface water

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

*No subsurface (tile) drainage sources entered.*

**F. NUTRIENT IMPORTS**

*No dry manure nutrient imports entered.*

*No process wastewater nutrient imports entered.*

*No commercial or other nutrient imports entered.*

**G. NUTRIENT EXPORTS**

*No solid nutrient exports entered.*

*No liquid nutrient exports entered.*

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

Field name	Controlled acres	Cropable acres	Total harvests	Type of waste applied	Parcel number
1H	10	10	1	process wastewater	X016-X200-X035-XXXX
2H	58	58	2	process wastewater	X016-X200-X035-XXXX
3H	35	35	2	process wastewater	X016-X200-X055-XXXX X016-X200-X056-XXXX
4H	20	20	2	process wastewater	X016-X200-X028-XXXX
5H	4	4	1	process wastewater	X016-X200-X028-XXXX
6H	47	47	2	process wastewater	X016-X200-X041-XXXX
7H	49	49	2	process wastewater	X016-X200-X041-XXXX
Totals for areas that were used for application	223	223	12		
Totals for areas that were not used for application					
Land application area totals	223	223	12		

**B. CROPS AND HARVESTS****1H**

Field name: 1H

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

Crop: Wheat, silage, boot stage      Acres planted: \_\_\_\_\_ 10      Plant date: 11/01/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/12/2023	175.20 ton	Dry-weight		61.2	15,800.00	3,800.00	23,500.00		8.75

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	256.00	44.80	192.00	0.00
Total actual harvest content	17.52	214.81	51.66	319.49	1,189.61

**2H**

Field name: 2H

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**2H**

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

Crop: Wheat, silage, boot stage      Acres planted: 58      Plant date: 11/01/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/12/2023	996.50 ton	Dry-weight		61.4	16,900.00	4,000.00	21,500.00		9.30

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	256.00	44.80	192.00	0.00
Total actual harvest content	17.18	224.16	53.06	285.17	1,233.53

06/01/2023: Corn, silage

Crop: Corn, silage      Acres planted: 58      Plant date: 06/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
08/18/2023	1,173.61 ton	Dry-weight		71.3	22,100.00	3,300.00	24,400.00		8.61

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	28.00	224.00	42.00	184.80	0.00
Total actual harvest content	20.23	256.68	38.33	283.40	1,000.02

**3H**

Field name: 3H

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

Crop: Wheat, silage, boot stage      Acres planted: 35      Plant date: 11/01/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/09/2023	630.20 ton	Dry-weight		69.0	29,900.00	4,200.00	25,800.00		11.12

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	256.00	44.80	192.00	0.00
Total actual harvest content	18.01	333.79	46.89	288.02	1,241.39

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**3H**

06/01/2023: Corn, silage

Crop: Corn, silage      Acres planted: 35      Plant date: 06/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/12/2023	772.49 ton	Dry-weight		71.2	23,500.00	3,400.00	23,600.00		9.25

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	28.00	224.00	42.00	184.80	0.00
Total actual harvest content	22.07	298.75	43.22	300.03	1,175.95

**4H**

Field name: 4H

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

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

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/09/2023	273.09 ton	Dry-weight		63.5	15,400.00	3,900.00	23,200.00		9.51

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	256.00	44.80	192.00	0.00
Total actual harvest content	13.65	153.50	38.87	231.25	947.94

06/01/2023: Corn, silage

Crop: Corn, silage      Acres planted: 20      Plant date: 06/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/11/2023	357.42 ton	Dry-weight		71.8	22,100.00	3,200.00	23,100.00		8.27

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	28.00	224.00	42.00	184.80	0.00
Total actual harvest content	17.87	222.75	32.25	232.83	833.55

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**5H**Field name: 5H

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

Crop: Wheat, silage, boot stage Acres planted: 4 Plant date: 11/01/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/09/2023	95.20 ton	Dry-weight		68.4	16,800.00	5,000.00	30,400.00		9.90

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	256.00	44.80	192.00	0.00
Total actual harvest content	23.80	252.70	75.21	457.26	1,489.12

**6H**Field name: 6H

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

Crop: Wheat, silage, boot stage Acres planted: 47 Plant date: 11/01/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/09/2023	630.87 ton	Dry-weight		60.3	15,300.00	3,700.00	23,900.00		8.54

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	256.00	44.80	192.00	0.00
Total actual harvest content	13.42	163.06	39.43	254.72	910.17

06/01/2023: Corn, silage

Crop: Corn, silage Acres planted: 47 Plant date: 06/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/11/2023	1,291.31 ton	Dry-weight		69.8	18,900.00	3,000.00	23,100.00		7.73

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	28.00	224.00	42.00	184.80	0.00
Total actual harvest content	27.47	313.64	49.78	383.34	1,282.77

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**7H**Field name: 7H

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

Crop: Wheat, silage, boot stage      Acres planted: 49      Plant date: 11/01/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/09/2023	576.38 ton	Dry-weight		60.8	13,600.00	3,800.00	21,900.00		10.74

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	256.00	44.80	192.00	0.00
Total actual harvest content	11.76	125.42	35.04	201.96	990.45

06/01/2023: Corn, silage

Crop: Corn, silage      Acres planted: 49      Plant date: 06/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
08/28/2023	1,261.93 ton	Dry-weight		70.5	21,500.00	3,600.00	23,500.00		8.75

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	28.00	224.00	42.00	184.80	0.00
Total actual harvest content	25.75	326.69	54.70	357.07	1,329.53

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**NUTRIENT BUDGET****A. LAND APPLICATIONS**

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

Field name: 1HCrop: Wheat, silage, boot stagePlant date: 11/01/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
12/22/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
WW	Process wastewater	128.23	15.12	92.18	528.66
Application event totals		128.23	15.12	92.18	528.66
01/15/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Canal	Surface water	0.00	0.00	0.00	9.16
Application event totals		0.00	0.00	0.00	9.16
02/14/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
WW	Process wastewater	128.23	15.12	92.18	528.66
Canal	Surface water	0.00	0.00	0.00	9.16
Application event totals		128.23	15.12	92.18	537.81
03/14/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Canal	Surface water	0.00	0.00	0.00	9.16
Application event totals		0.00	0.00	0.00	9.16

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

Field name: 2HCrop: Wheat, silage, boot stagePlant date: 11/01/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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**2H - 11/01/2022: Wheat, silage, boot stage**

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
01/15/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	145.92	17.20	104.89	601.57	1,650,000.00 gal
Canal	Surface water	0.00	0.00	0.00	6.13	3,550,000.00 gal
Application event totals		145.92	17.20	104.89	607.70	
02/13/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	6.13	3,550,000.00 gal
Application event totals		0.00	0.00	0.00	6.13	
03/14/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	145.92	17.20	104.89	601.57	1,650,000.00 gal
Canal	Surface water	0.00	0.00	0.00	6.13	3,550,000.00 gal
Application event totals		145.92	17.20	104.89	607.70	

**2H - 06/01/2023: Corn, silage**

Field name: 2H

Crop: Corn, silage

Plant date: 06/01/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/19/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	11.31	6,550,000.00 gal
Application event totals		0.00	0.00	0.00	11.31	

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

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/26/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	11.31	6,550,000.00 gal
Application event totals		0.00	0.00	0.00	11.31	
07/02/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	8.76	1.85	8.34	64.73	185,000.00 gal
Canal	Surface water	0.00	0.00	0.00	11.31	6,550,000.00 gal
Application event totals		8.76	1.85	8.34	76.04	
07/09/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	11.31	6,550,000.00 gal
Application event totals		0.00	0.00	0.00	11.31	
07/15/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	87.65	18.46	83.36	647.34	1,850,000.00 gal
Canal	Surface water	0.00	0.00	0.00	11.31	6,550,000.00 gal
Application event totals		87.65	18.46	83.36	658.65	
07/22/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	11.31	6,550,000.00 gal
Application event totals		0.00	0.00	0.00	11.31	

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

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
07/30/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	87.65	18.46	83.36	647.34	1,850,000.00 gal
Canal	Surface water	0.00	0.00	0.00	11.31	6,550,000.00 gal
Application event totals		87.65	18.46	83.36	658.65	
08/06/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	145.59	6.46	89.31	658.97	1,250,000.00 gal
Canal	Surface water	0.00	0.00	0.00	11.31	6,550,000.00 gal
Application event totals		145.59	6.46	89.31	670.28	

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

Field name: 3H

Crop: Wheat, silage, boot stage

Plant date: 11/01/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
12/26/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	80.60	9.50	57.94	332.30	550,000.00 gal
Application event totals		80.60	9.50	57.94	332.30	
01/14/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	8.73	3,050,000.00 gal
Application event totals		0.00	0.00	0.00	8.73	

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

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
02/12/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	183.18	21.60	131.68	755.22	1,250,000.00 gal
Canal	Surface water	0.00	0.00	0.00	8.73	3,050,000.00 gal
Application event totals		183.18	21.60	131.68	763.95	
03/11/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	183.18	21.60	131.68	755.22	1,250,000.00 gal
Canal	Surface water	0.00	0.00	0.00	8.73	3,050,000.00 gal
Application event totals		183.18	21.60	131.68	763.95	

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

Field name: 3H

Crop: Corn, silage

Plant date: 06/01/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/27/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	13.02	4,550,000.00 gal
Application event totals		0.00	0.00	0.00	13.02	
07/07/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	70.27	14.80	66.83	518.97	895,000.00 gal
Canal	Surface water	0.00	0.00	0.00	13.02	4,550,000.00 gal
Application event totals		70.27	14.80	66.83	531.99	

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3H - 06/01/2023: 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
Canal	Surface water	0.00	0.00	0.00	13.02	4,550,000.00 gal
Application event totals		0.00	0.00	0.00	13.02	
07/27/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	70.27	14.80	66.83	518.97	895,000.00 gal
Canal	Surface water	0.00	0.00	0.00	13.02	4,550,000.00 gal
Application event totals		70.27	14.80	66.83	531.99	
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
Canal	Surface water	0.00	0.00	0.00	13.02	4,550,000.00 gal
Application event totals		0.00	0.00	0.00	13.02	
08/17/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	114.84	5.09	70.45	519.79	595,000.00 gal
Canal	Surface water	0.00	0.00	0.00	13.02	4,550,000.00 gal
Application event totals		114.84	5.09	70.45	532.81	
08/27/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	13.02	4,550,000.00 gal
Application event totals		0.00	0.00	0.00	13.02	

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3H - 06/01/2023: 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
WW	Process wastewater	114.84	5.09	70.45	519.79	595,000.00 gal
Canal	Surface water	0.00	0.00	0.00	13.02	4,550,000.00 gal
Application event totals		114.84	5.09	70.45	532.81	

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

Field name: 4H

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

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
01/13/2023	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
WW	Process wastewater	96.17	11.34	69.13	396.49	375,000.00 gal
Canal	Surface water	0.00	0.00	0.00	12.82	2,560,000.00 gal
Application event totals		96.17	11.34	69.13	409.31	
02/14/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	12.82	2,560,000.00 gal
Application event totals		0.00	0.00	0.00	12.82	
03/16/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	96.17	11.34	69.13	396.49	375,000.00 gal
Canal	Surface water	0.00	0.00	0.00	12.82	2,560,000.00 gal
Application event totals		96.17	11.34	69.13	409.31	

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

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

Field name: 4H

Crop: Corn, silage

Plant date: 06/01/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/28/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	12.82	2,560,000.00 gal
Application event totals		0.00	0.00	0.00	12.82	
07/08/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	85.87	18.09	81.67	634.22	625,000.00 gal
Canal	Surface water	0.00	0.00	0.00	12.82	2,560,000.00 gal
Application event totals		85.87	18.09	81.67	647.04	
07/18/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	12.82	2,560,000.00 gal
Application event totals		0.00	0.00	0.00	12.82	
07/28/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	85.87	18.09	81.67	634.22	625,000.00 gal
Canal	Surface water	0.00	0.00	0.00	12.82	2,560,000.00 gal
Application event totals		85.87	18.09	81.67	647.04	
08/08/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	12.82	2,560,000.00 gal
Application event totals		0.00	0.00	0.00	12.82	

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

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
08/18/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	126.66	5.62	77.70	573.30	375,000.00 gal
Canal	Surface water	0.00	0.00	0.00	12.82	2,560,000.00 gal
Application event totals		126.66	5.62	77.70	586.12	
08/28/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	12.82	2,560,000.00 gal
Application event totals		0.00	0.00	0.00	12.82	
09/08/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	12.82	2,560,000.00 gal
Application event totals		0.00	0.00	0.00	12.82	

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

Field name: 5H

Crop: Wheat, silage, boot stage

Plant date: 11/01/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
01/21/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	192.34	22.68	138.27	792.98	150,000.00 gal
Canal	Surface water	0.00	0.00	0.00	6.88	275,000.00 gal
Application event totals		192.34	22.68	138.27	799.87	

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

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
Canal	Surface water	0.00	0.00	0.00	6.88	275,000.00 gal
Application event totals		0.00	0.00	0.00	6.88	
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
Canal	Surface water	0.00	0.00	0.00	6.88	275,000.00 gal
Application event totals		0.00	0.00	0.00	6.88	

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

Field name:	6H	Plant date:	11/01/2022			
Crop:	Wheat, silage, boot stage					
Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
01/25/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	103.67	12.22	74.53	427.42	950,000.00 gal
Canal	Surface water	0.00	0.00	0.00	8.63	4,050,000.00 gal
Application event totals		103.67	12.22	74.53	436.05	
02/23/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	8.63	4,050,000.00 gal
Application event totals		0.00	0.00	0.00	8.63	

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

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
03/21/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	103.67	12.22	74.53	427.42	950,000.00 gal
Canal	Surface water	0.00	0.00	0.00	8.63	4,050,000.00 gal
Application event totals		103.67	12.22	74.53	436.05	

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

Field name: 6H

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

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/30/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	10.76	5,050,000.00 gal
Application event totals		0.00	0.00	0.00	10.76	
07/10/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	125.70	26.48	119.56	928.39	2,150,000.00 gal
Canal	Surface water	0.00	0.00	0.00	10.76	5,050,000.00 gal
Application event totals		125.70	26.48	119.56	939.15	
07/20/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	10.76	5,050,000.00 gal
Application event totals		0.00	0.00	0.00	10.76	

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

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
07/30/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	125.70	26.48	119.56	928.39	2,150,000.00 gal
Canal	Surface water	0.00	0.00	0.00	10.76	5,050,000.00 gal
Application event totals		125.70	26.48	119.56	939.15	
08/10/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	10.76	5,050,000.00 gal
Application event totals		0.00	0.00	0.00	10.76	
08/20/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	165.29	7.33	101.39	748.14	1,150,000.00 gal
Canal	Surface water	0.00	0.00	0.00	10.76	5,050,000.00 gal
Application event totals		165.29	7.33	101.39	758.90	
08/30/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	10.76	5,050,000.00 gal
Application event totals		0.00	0.00	0.00	10.76	
09/10/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	10.76	5,050,000.00 gal
Application event totals		0.00	0.00	0.00	10.76	

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

Field name: 7H

Crop: Wheat, silage, boot stage

Plant date: 11/01/2022

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

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
12/26/2022	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	54.96	6.48	39.50	226.57	525,000.00 gal
Application event totals		54.96	6.48	39.50	226.57	
01/18/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	54.96	6.48	39.50	226.57	525,000.00 gal
Canal	Surface water	0.00	0.00	0.00	4.19	2,050,000.00 gal
Application event totals		54.96	6.48	39.50	230.76	
02/15/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	54.96	6.48	39.50	226.57	525,000.00 gal
Canal	Surface water	0.00	0.00	0.00	4.19	2,050,000.00 gal
Application event totals		54.96	6.48	39.50	230.76	
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
Canal	Surface water	0.00	0.00	0.00	4.19	2,050,000.00 gal
Application event totals		0.00	0.00	0.00	4.19	

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

Field name: 7H

Crop: Corn, silage

Plant date: 06/01/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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7H - 06/01/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
06/25/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	12.16	5,950,000.00 gal
Application event totals		0.00	0.00	0.00	12.16	
07/02/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	89.61	3.97	54.97	405.60	650,000.00 gal
Canal	Surface water	0.00	0.00	0.00	12.16	5,950,000.00 gal
Application event totals		89.61	3.97	54.97	417.76	
07/10/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	12.16	5,950,000.00 gal
Application event totals		0.00	0.00	0.00	12.16	
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
WW	Process wastewater	165.44	34.85	157.35	1,221.84	2,950,000.00 gal
Canal	Surface water	0.00	0.00	0.00	12.16	5,950,000.00 gal
Application event totals		165.44	34.85	157.35	1,234.00	
07/22/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	12.16	5,950,000.00 gal
Application event totals		0.00	0.00	0.00	12.16	

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

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
08/02/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	165.44	34.85	157.35	1,221.84	2,950,000.00 gal
Canal	Surface water	0.00	0.00	0.00	12.16	5,950,000.00 gal
Application event totals		165.44	34.85	157.35	1,234.00	
08/12/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	12.16	5,950,000.00 gal
Application event totals		0.00	0.00	0.00	12.16	

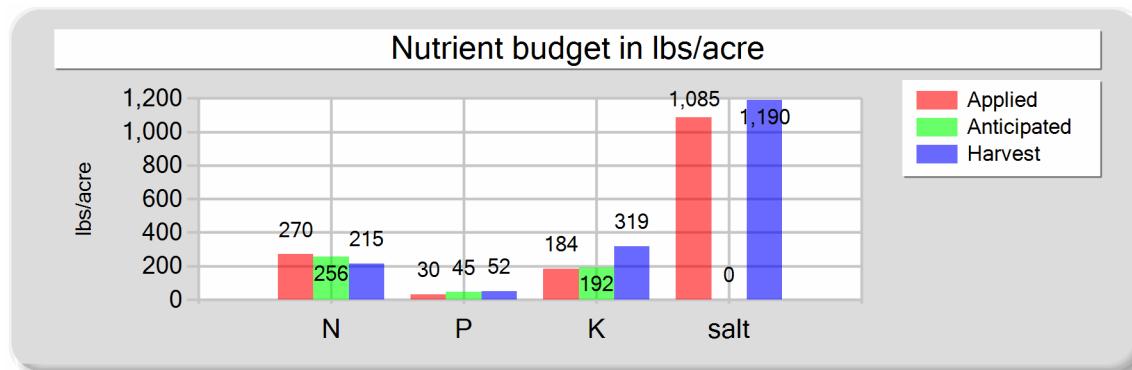
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**B. NUTRIENT BUDGET**

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

Field name: <u>1H</u>	Crop: <u>Wheat, silage, boot stage</u>	Plant date: <u>11/01/2022</u>
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	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	256.46	30.24	184.35	1,057.31
Fresh water	0.00	0.00	0.00	27.47
Atmospheric deposition	14.00	0.00	0.00	0.00
<b>Total nutrients applied</b>	<b>270.46</b>	<b>30.24</b>	<b>184.35</b>	<b>1,084.78</b>
Anticipated crop nutrient removal	256.00	44.80	192.00	0.00
Actual crop nutrient removal	214.81	51.66	319.49	1,189.61
Nutrient balance	55.65	-21.42	-135.14	-104.83
Applied to removed ratio	1.26	0.59	0.58	0.91

Fresh water applied
2,743,200.00 gallons
101.02 acre-inches
10.10 inches/acre
Process wastewater applied
500,000.00 gallons
18.41 acre-inches
1.84 inches/acre
Total harvests for the crop
1 harvests

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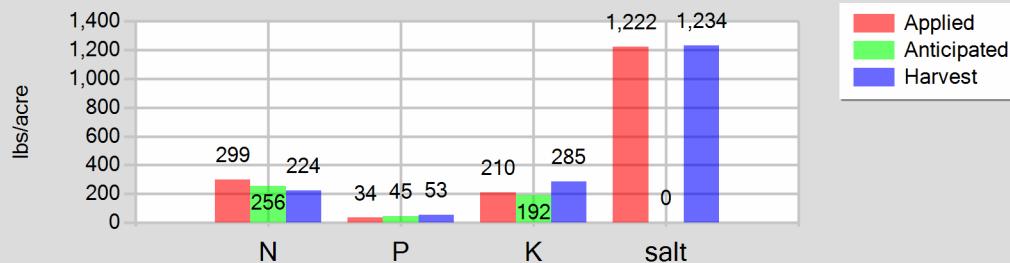
2H - 11/01/2022: Wheat, silage, boot stage

Field name: 2H

Crop: Wheat, silage, boot stage

Plant date: 11/01/2022

**Nutrient budget in lbs/acre**



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	291.83	34.41	209.78	1,203.15
Fresh water	0.00	0.00	0.00	18.39
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	298.83	34.41	209.78	1,221.54
Anticipated crop nutrient removal	256.00	44.80	192.00	0.00
Actual crop nutrient removal	224.16	53.06	285.17	1,233.53
Nutrient balance	74.67	-18.65	-75.39	-11.99
Applied to removed ratio	1.33	0.65	0.74	0.99

**Fresh water applied**

10,650,000.00 *gallons*  
392.20 *acre-inches*  
6.76 *inches/acre*

**Process wastewater applied**

3,300,000.00 *gallons*  
121.53 *acre-inches*  
2.10 *inches/acre*

**Total harvests for the crop**

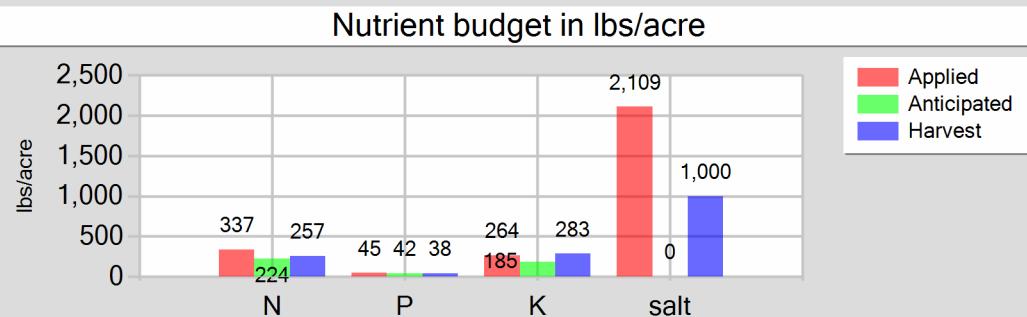
1 *harvests*

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

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

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

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



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	329.65	45.23	264.37	2,018.39
Fresh water	0.00	0.00	0.00	90.47
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	336.65	45.23	264.37	2,108.86
Anticipated crop nutrient removal	224.00	42.00	184.80	0.00
Actual crop nutrient removal	256.68	38.33	283.40	1,000.02
Nutrient balance	79.97	6.90	-19.03	1,108.83
Applied to removed ratio	1.31	1.18	0.93	2.11

**Fresh water applied**  
52,400,000.00 gallons  
1,929.71 acre-inches  
33.27 inches/acre

**Process wastewater applied**  
5,135,000.00 gallons  
189.10 acre-inches  
3.26 inches/acre

**Total harvests for the crop**  
1 harvests

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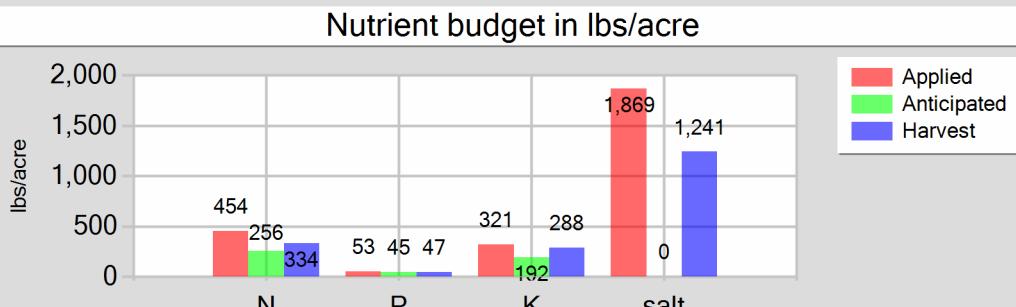
Reporting period 01/01/2023 to 12/31/2023.

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

Field name: 3H

Crop: Wheat, silage, boot stage

Plant date: 11/01/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	9,150,000.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	336.96 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	9.63 inches/acre
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	446.97	52.70	321.30	1,842.74	Process wastewater applied
Fresh water	0.00	0.00	0.00	26.18	3,050,000.00 gallons
Atmospheric deposition	7.00	0.00	0.00	0.00	112.32 acre-inches
Total nutrients applied	453.97	52.70	321.30	1,868.92	3.21 inches/acre
Anticipated crop nutrient removal	256.00	44.80	192.00	0.00	
Actual crop nutrient removal	333.79	46.89	288.02	1,241.39	Total harvests for the crop
Nutrient balance	120.18	5.81	33.28	627.54	1 harvests
Applied to removed ratio	1.36	1.12	1.12	1.51	

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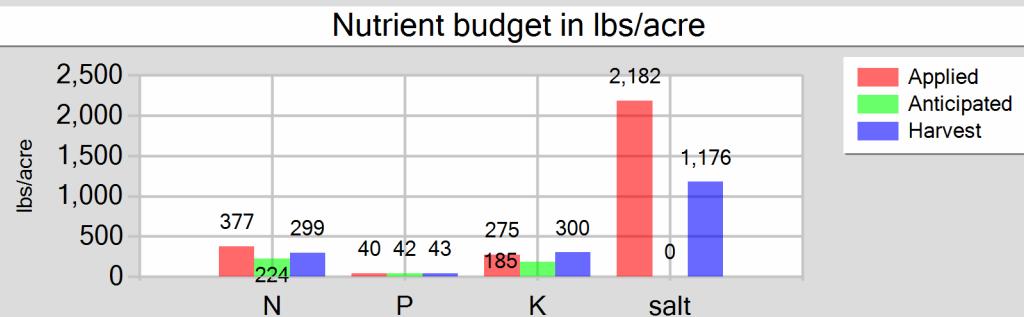
Reporting period 01/01/2023 to 12/31/2023.

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

Field name: 3H

Crop: Corn, silage

Plant date: 06/01/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	370.22	39.79	274.56	2,077.53
Fresh water	0.00	0.00	0.00	104.15
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	377.22	39.79	274.56	2,181.68
Anticipated crop nutrient removal	224.00	42.00	184.80	0.00
Actual crop nutrient removal	298.75	43.22	300.03	1,175.95
Nutrient balance	78.46	-3.43	-25.47	1,005.73
Applied to removed ratio	1.26	0.92	0.92	1.86

**Fresh water applied**

36,400,000.00 gallons  
1,340.49 acre-inches  
38.30 inches/acre

**Process wastewater applied**

2,980,000.00 gallons  
109.74 acre-inches  
3.14 inches/acre

**Total harvests for the crop**

1 harvests

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

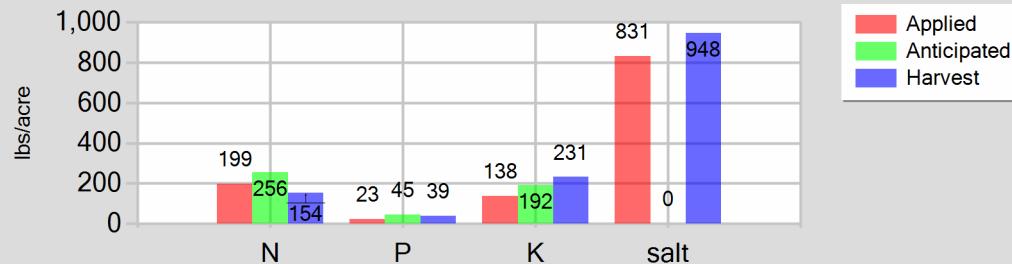
4H - 11/01/2022: Wheat, silage, boot stage

Field name: 4H

Crop: Wheat, silage, boot stage

Plant date: 11/01/2022

**Nutrient budget in lbs/acre**



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	192.34	22.68	138.27	792.98
Fresh water	0.00	0.00	0.00	38.45
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	199.34	22.68	138.27	831.44
Anticipated crop nutrient removal	256.00	44.80	192.00	0.00
Actual crop nutrient removal	153.50	38.87	231.25	947.94
Nutrient balance	45.84	-16.20	-92.99	-116.50
Applied to removed ratio	1.30	0.58	0.60	0.88

**Fresh water applied**

7,680,000.00 gallons  
282.83 acre-inches  
14.14 inches/acre

**Process wastewater applied**

750,000.00 gallons  
27.62 acre-inches  
1.38 inches/acre

**Total harvests for the crop**

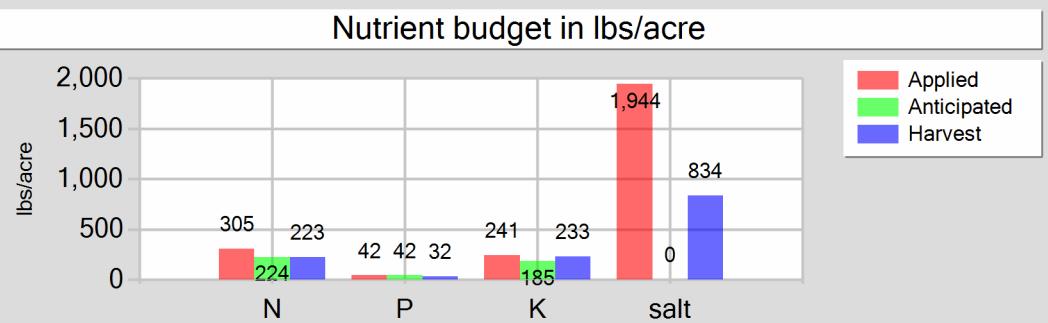
1 harvests

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

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

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

Field name: 4H      Crop: Corn, silage      Plant date: 06/01/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	298.41	41.80	241.05	1,841.74
Fresh water	0.00	0.00	0.00	102.54
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	305.41	41.80	241.05	1,944.28
Anticipated crop nutrient removal	224.00	42.00	184.80	0.00
Actual crop nutrient removal	222.75	32.25	232.83	833.55
Nutrient balance	82.66	9.54	8.22	1,110.73
Applied to removed ratio	1.37	1.30	1.04	2.33

**Fresh water applied**  
20,480,000.00 gallons  
754.21 acre-inches  
37.71 inches/acre

**Process wastewater applied**  
1,625,000.00 gallons  
59.84 acre-inches  
2.99 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.

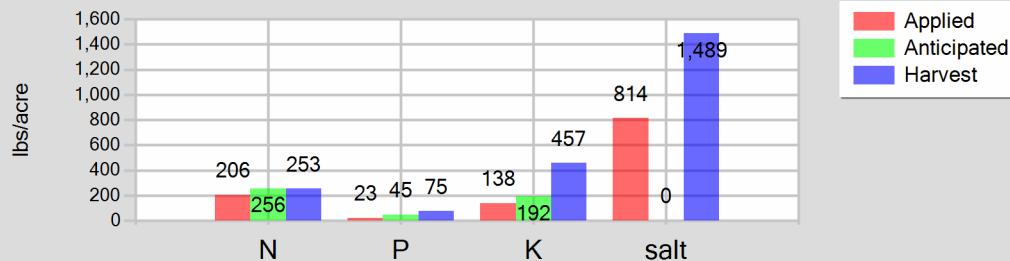
5H - 11/01/2022: Wheat, silage, boot stage

Field name: 5H

Crop: Wheat, silage, boot stage

Plant date: 11/01/2022

**Nutrient budget in lbs/acre**



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	192.34	22.68	138.27	792.98
Fresh water	0.00	0.00	0.00	20.65
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	206.34	22.68	138.27	813.64
Anticipated crop nutrient removal	256.00	44.80	192.00	0.00
Actual crop nutrient removal	252.70	75.21	457.26	1,489.12
Nutrient balance	-46.35	-52.53	-319.00	-675.48
Applied to removed ratio	0.82	0.30	0.30	0.55

**Fresh water applied**

825,000.00 gallons  
30.38 acre-inches  
7.60 inches/acre

**Process wastewater applied**

150,000.00 gallons  
5.52 acre-inches  
1.38 inches/acre

**Total harvests for the crop**

1 harvests

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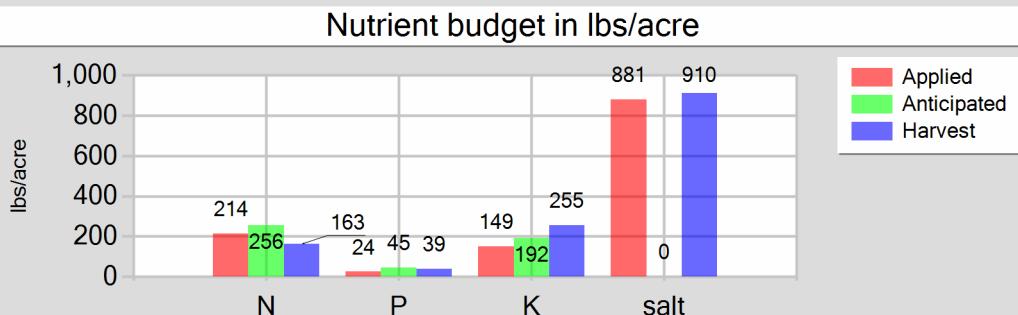
Reporting period 01/01/2023 to 12/31/2023.

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

Field name: 6H

Crop: Wheat, silage, boot stage

Plant date: 11/01/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	12,150,000.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	447.44 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	9.52 inches/acre
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	207.35	24.45	149.05	854.85	1,900,000.00 gallons
Fresh water	0.00	0.00	0.00	25.89	69.97 acre-inches
Atmospheric deposition	7.00	0.00	0.00	0.00	1.49 inches/acre
Total nutrients applied	214.35	24.45	149.05	880.73	
Anticipated crop nutrient removal	256.00	44.80	192.00	0.00	
Actual crop nutrient removal	163.06	39.43	254.72	910.17	
Nutrient balance	51.29	-14.99	-105.67	-29.43	
Applied to removed ratio	1.31	0.62	0.59	0.97	
Total harvests for the crop					1 harvests

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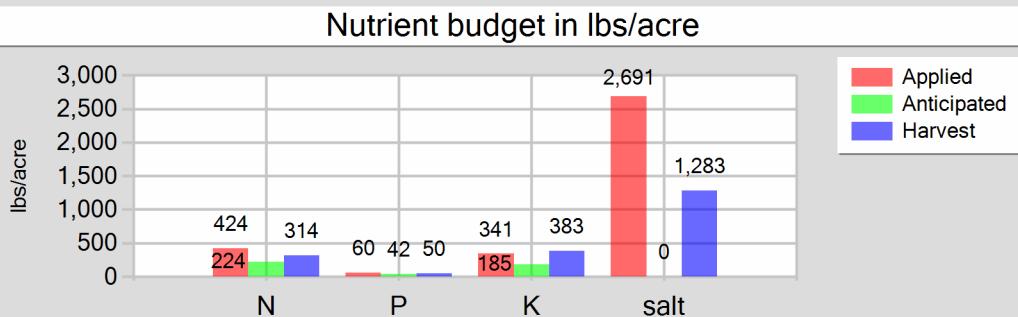
Reporting period 01/01/2023 to 12/31/2023.

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

Field name: 6H

Crop: Corn, silage

Plant date: 06/01/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	416.69	60.29	340.51	2,604.92
Fresh water	0.00	0.00	0.00	86.08
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	423.69	60.29	340.51	2,691.00
Anticipated crop nutrient removal	224.00	42.00	184.80	0.00
Actual crop nutrient removal	313.64	49.78	383.34	1,282.77
Nutrient balance	110.05	10.51	-42.83	1,408.23
Applied to removed ratio	1.35	1.21	0.89	2.10

**Fresh water applied**

40,400,000.00 gallons  
1,487.79 acre-inches  
31.66 inches/acre

**Process wastewater applied**

5,450,000.00 gallons  
200.70 acre-inches  
4.27 inches/acre

**Total harvests for the crop**

1 harvests

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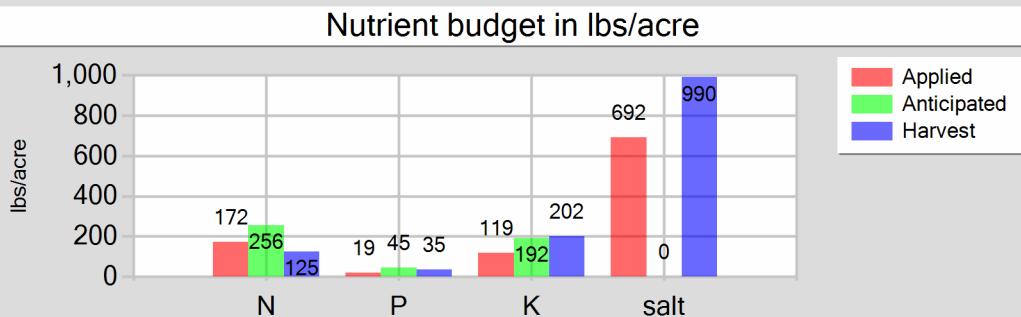
Reporting period 01/01/2023 to 12/31/2023.

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

Field name: 7H

Crop: Wheat, silage, boot stage

Plant date: 11/01/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	6,150,000.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	226.48 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	4.62 inches/acre
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	164.87	19.44	118.51	679.70	1,575,000.00 gallons
Fresh water	0.00	0.00	0.00	12.57	58.00 acre-inches
Atmospheric deposition	7.00	0.00	0.00	0.00	1.18 inches/acre
Total nutrients applied	171.87	19.44	118.51	692.27	
Anticipated crop nutrient removal	256.00	44.80	192.00	0.00	
Actual crop nutrient removal	125.42	35.04	201.96	990.45	
Nutrient balance	46.45	-15.61	-83.45	-298.18	
Applied to removed ratio	1.37	0.55	0.59	0.70	
Total harvests for the crop					1 harvests

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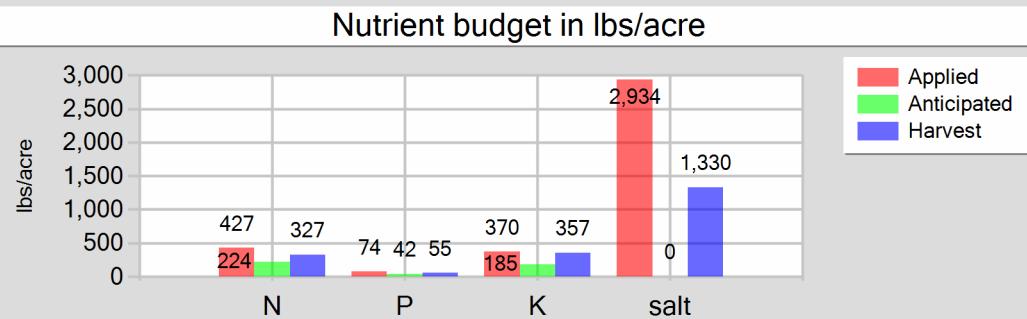
Reporting period 01/01/2023 to 12/31/2023.

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

Field name: 7H

Crop: Corn, silage

Plant date: 06/01/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	420.48	73.68	369.67	2,849.29
Fresh water	0.00	0.00	0.00	85.12
Atmospheric deposition	7.00	0.00	0.00	0.00
<b>Total nutrients applied</b>	<b>427.48</b>	<b>73.68</b>	<b>369.67</b>	<b>2,934.41</b>
Anticipated crop nutrient removal	224.00	42.00	184.80	0.00
Actual crop nutrient removal	326.69	54.70	357.07	1,329.53
<b>Nutrient balance</b>	<b>100.80</b>	<b>18.98</b>	<b>12.59</b>	<b>1,604.88</b>
Applied to removed ratio	1.31	1.35	1.04	2.21

**Fresh water applied**

41,650,000.00 gallons
1,533.83 acre-inches
31.30 inches/acre

**Process wastewater applied**

6,550,000.00 gallons
241.21 acre-inches
4.92 inches/acre

**Total harvests for the crop**

1 harvests
------------

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

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

**NUTRIENT ANALYSES****A. MANURE ANALYSES****Dry Manure**

Sample and source description: Dry Manure

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

Moisture: 20.1 %

	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	11,900.00	6,800.00	24,900.00	16,000.00	9,300.00	8,600.00	5,200.00	1,093.50		70.00
DL	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00		1.00

**Dry Manure**

Sample and source description: Dry Manure

Sample date: 10/27/2023 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 29.8 %

	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	14,000.00	5,100.00	18,000.00							55.11
DL	100.00	100.00	100.00							1.00

**B. PROCESS WASTEWATER ANALYSES****1st Qtr WW**

Sample and source description: 1st Qtr WW

Sample date: 02/03/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 7.54

	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	614.64	113.97	0.00	0.00	72.47	441.83								3,960.00	2,534
DL	67.00	0.57	0.01	0.01	0.64	0.01								1.00	19

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

**2nd Qtr WW**

Sample and source description: 2nd Qtr WW

Sample date: 06/09/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 7.75

	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>	329.29	155.79	0.00	0.00	69.37	313.19	5.20	4.70	13.40	33.98	5.20	1.60	5.80	3,800.00	2,432
<b>DL</b>	67.00	0.57	0.01	0.01	0.64	0.01	0.02	0.01	0.01	0.10	0.02	0.02	0.01	100.00	19

**3rd Qtr WW**

Sample and source description: 3rd Qtr WW

Sample date: 08/28/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 7.66

	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>	809.50	454.34	0.00	0.00	35.90	496.57								5,725.00	3,664
<b>DL</b>	67.00	0.57	0.01	0.01	0.64	0.01								1.00	19

**4th Qtr WW**

Sample and source description: 4th Qtr WW

Sample date: 12/08/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 7.31

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
<b>Value</b>	359.68	106.00	0.00	0.00	58.84	330.80								3,054.00	1,954
<b>DL</b>	67.00	0.57	0.01	0.01	0.64	0.01								1.00	19

**C. FRESH WATER ANALYSES**

Barn

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

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

**Barn****Barn**

Sample description: Barn

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

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	0.50										114.00	
DL	0.10										1.00	

**Canal****Canal**

Sample description: Canal

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

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

**D. SOIL ANALYSES**

No soil analyses entered.

**E. PLANT TISSUE ANALYSES**

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

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

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

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

1H

Sample and source description: 1H

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

Moisture: 61.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	15,800.00	3,800.00	23,500.00		8.75
<b>DL</b>	100.00	100.00	100.00		1.00

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

2H

Sample and source description: 2H

Sample date: 05/09/2023 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 (%)
<b>Value</b>	16,900.00	4,000.00	21,500.00		9.30
<b>DL</b>	100.00	100.00	100.00		1.00

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

2H

Sample and source description: 2H

Sample date: 08/18/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 71.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	22,100.00	3,300.00	24,400.00		8.61
<b>DL</b>	100.00	100.00	100.00		1.00

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

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

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

3H

Sample and source description: 3H

Sample date: 05/09/2023    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>	29,900.00	4,200.00	25,800.00		11.12
<b>DL</b>	100.00	100.00	100.00		1.00

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

3H

Sample and source description: 3H

Sample date: 09/15/2023    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 (%)
<b>Value</b>	23,500.00	3,400.00	23,600.00		9.25
<b>DL</b>	100.00	100.00	100.00		1.00

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

4H

Sample and source description: 4H

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

Moisture: 63.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	15,400.00	3,900.00	23,200.00		9.51
<b>DL</b>	100.00	100.00	100.00		1.00

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

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

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

**4H**

Sample and source description: 4H

Sample date: 09/11/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 71.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	22,100.00	3,200.00	23,100.00		8.27
<b>DL</b>	100.00	100.00	100.00		1.00

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

**5H**

Sample and source description: 5H

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

Moisture: 68.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	16,800.00	5,000.00	30,400.00		9.90
<b>DL</b>	100.00	100.00	100.00		1.00

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

**6H**

Sample and source description: 6H

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

Moisture: 60.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	15,300.00	3,700.00	23,900.00		8.54
<b>DL</b>	100.00	100.00	100.00		1.00

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

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

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

6H

Sample and source description: 6H

Sample date: 09/11/2023    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 (%)
<b>Value</b>	18,900.00	3,000.00	23,100.00		7.73
<b>DL</b>	100.00	100.00	100.00		1.00

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

7H

Sample and source description: 7H

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

Moisture: 60.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	13,600.00	3,800.00	21,900.00		10.74
<b>DL</b>	100.00	100.00	100.00		1.00

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

7H

Sample and source description: 7H

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

Moisture: 70.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	21,500.00	3,600.00	23,500.00		8.75
<b>DL</b>	100.00	100.00	100.00		1.00

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

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

**F. SUBSURFACE (TILE) DRAINAGE ANALYSES**

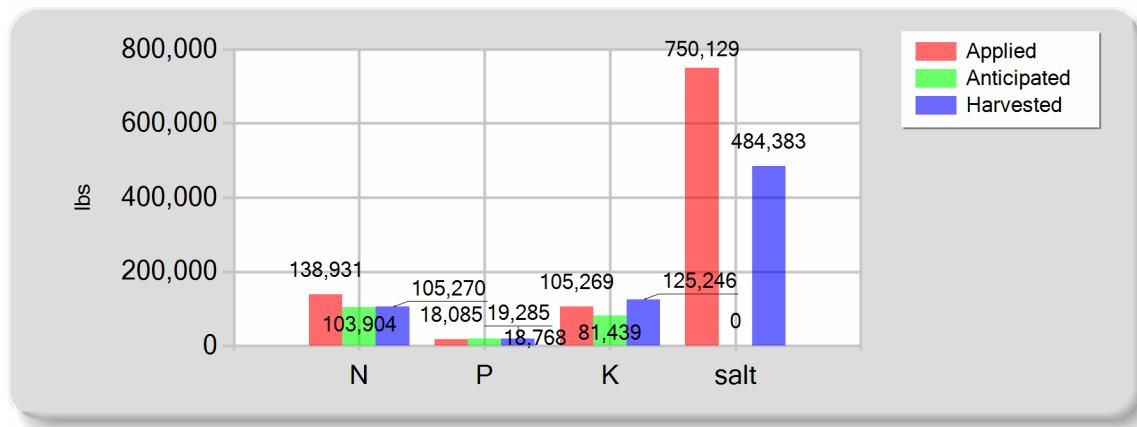
*No subsurface (tile) drainage analyses entered.*

**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	135,808.76	18,084.58	105,268.76	726,027.60
Fresh water	0.00	0.00	0.00	24,101.51
Atmospheric deposition	3,122.00	0.00	0.00	0.00
<b>Total nutrients applied</b>	<b>138,930.76</b>	<b>18,084.58</b>	<b>105,268.76</b>	<b>750,129.12</b>
Anticipated crop nutrient removal	103,904.00	18,768.40	81,439.20	0.00
Actual crop nutrient removal	105,270.10	19,284.86	125,245.80	484,382.56
<b>Nutrient balance</b>	<b>33,660.66</b>	<b>-1,200.29</b>	<b>-19,977.04</b>	<b>265,746.56</b>
Applied to removed ratio	1.32	0.94	0.84	1.55

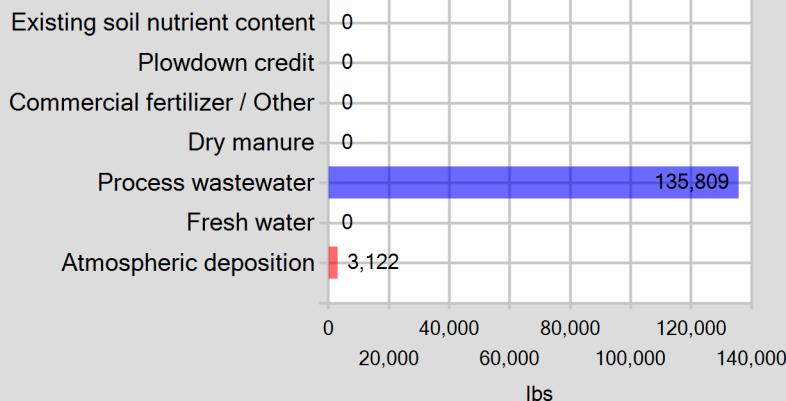
**B. POUNDS OF NUTRIENT APPLIED VS. CROP REMOVAL**

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

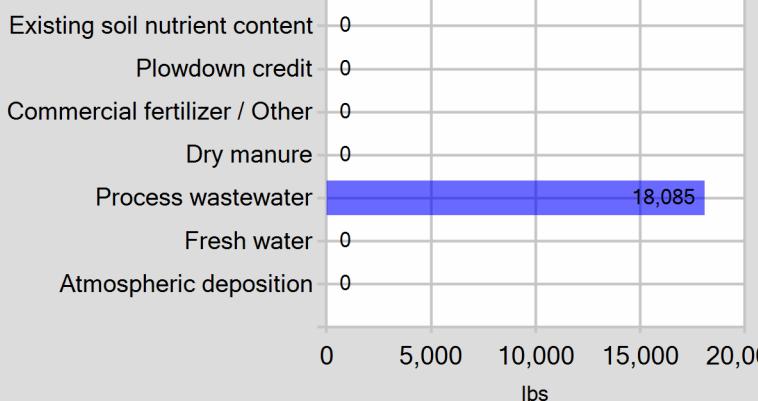
Reporting period 01/01/2023 to 12/31/2023.

C. POUNDS OF NUTRIENT APPLIED BY MATERIAL TYPE

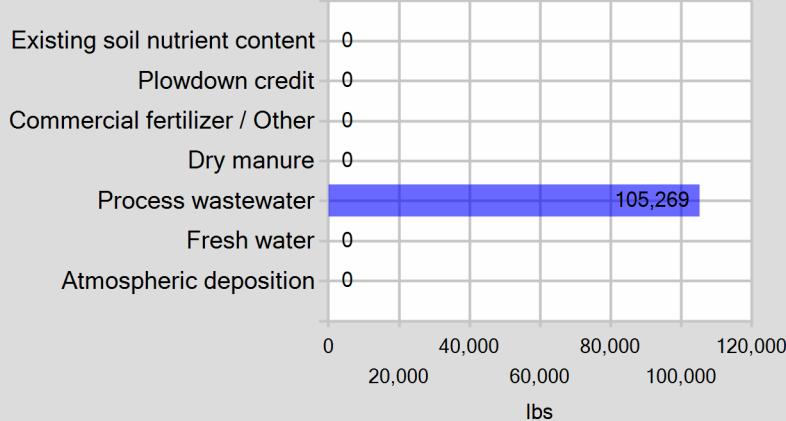
Pounds of nitrogen applied



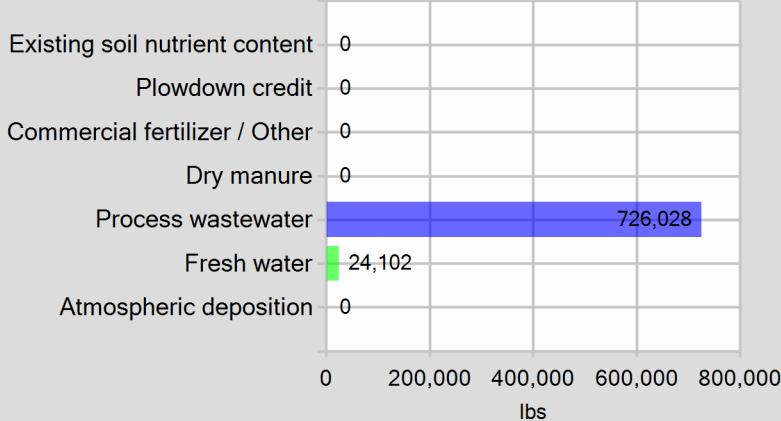
Pounds of phosphorus applied



Pounds of potassium applied



Pounds of salt applied



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

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

**EXCEPTION REPORTING**

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

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

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

**B. STORM WATER DISCHARGES**

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

*No stormwater discharges occurred during the reporting period.*

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

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

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

**NUTRIENT MANAGEMENT PLAN AND EXPORT AGREEMENT STATEMENTS**

**A. NUTRIENT MANAGEMENT PLAN STATEMENTS**

Was the facility's NMP updated in the reporting period? No

Was the facility's NMP developed by a certified nutrient management planner (specialist) as specified in Attachment C of the General Order? Yes

Was the facility's NMP approved by a certified nutrient management planner (specialist) as specified in Attachment C of the General Order? Yes

**B. EXPORT AGREEMENT STATEMENT**

Are there any written agreements with third parties to receive manure or process wastewater that are new or were revised within the reporting period? No

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

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

**ADDITIONAL NOTES**

**A. NOTES**

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

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

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

**CERTIFICATION**

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

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

 SIGNATURE OF OWNER OF FACILITY	 SIGNATURE OF OPERATOR OF FACILITY
Joe Sozinho PRINT OR TYPE NAME	SAME AS OWNER PRINT OR TYPE NAME
6-20-24 DATE	DATE

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

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

**ATTACHMENTS**

**A. REQUIRED ATTACHMENTS**

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

**Annual Dairy Facility Assessment**

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

**Manure/Process Wastewater Tracking Manifests**

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

**Corrective Actions Documents**

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

**Groundwater Monitoring**

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

**Storm Water Monitoring**

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



Sozinho #5  
12252 7th Ave  
Hanford, CA 93230

Account# 00-0025831  
Account Manager: Ben Nydam  
Submitted By: Christina Medeiros

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

### Samples in this Report

Lab ID	Sample	Matrix	Sampled By	Crop	Date Sampled
23L0690-01	Barn	Ag Water	Medeiros		12/12/2023 10:30

Default Cooler      Temperature on Receipt °C: 19.6  
Containers Intact  
COC/Labels Agree  
Received On Ice

### Notes and Definitions

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

Laboratory Director/Technical Manager

ELAP Certification #1595  
A2LA Certification #6440.02

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Reported: 12/20/2023 12:13

## Sample Results

**Sample: Barn**  
**23L0690-01 (Water)**

Sampled: 12/12/2023 10:30  
Sampled By: Medeiros

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
<b>Electrical Conductivity</b>	<b>1.14</b>	mmhos/cm	0.01	1		12/13/23 16:58	SM 2510 B		BEL0497
<b>Electrical Conductivity umhos</b>	<b>1140</b>	umhos/cm	10.0	1		12/13/23 16:58	SM 2510 B		BEL0497
Ammonia (as N)	ND	mg/L	0.00	1		12/12/23 10:30	Field		BEL0524
<b>Nitrate Nitrogen as NO3N</b>	<b>0.5</b>	mg/L	0.1	1	10	12/14/23 04:24	EPA 300.0		BEL0446
<b>Temperature</b>	<b>25.0</b>	units	0.0	1		12/13/23 16:58	SM 4500-H+	H	BEL0497
<b>pH</b>	<b>7.8</b>	units	1.0	1		12/13/23 16:58	SM 4500-H+	H	BEL0497

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Account Manager: Ben Nydam  
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Received: 12/13/2023 7:00  
Reported: 12/20/2023 12:13

## Quality Control

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

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Submitted By: Christina Medeiros

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

**Quality Control**  
**(Continued)**

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

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## Quality Control (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEL0497</b>									
<b>Blank (BEL0497-BLK1)</b>									
Prepared & Analyzed: 12/13/2023									
Electrical Conductivity	ND	0.01	mmhos/cm						
Temperature	25.0	0.0	units						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
pH	5.5	1.0	units						
<b>Blank (BEL0497-BLK2)</b>									
Prepared & Analyzed: 12/13/2023									
Electrical Conductivity	ND	0.01	mmhos/cm						
Temperature	25.0	0.0	units						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
pH	7.7	1.0	units						
<b>Blank (BEL0497-BLK3)</b>									
Prepared & Analyzed: 12/13/2023									
Electrical Conductivity	ND	0.01	mmhos/cm						
Temperature	25.0	0.0	units						
pH	7.2	1.0	units						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
<b>Duplicate (BEL0497-DUP1)</b>									
Source: 23L0694-04 Prepared & Analyzed: 12/13/2023									
Electrical Conductivity	1.14	0.01	mmhos/cm		1.13			0.986	10
pH	7.8	1.0	units		7.8			0.129	10
Electrical Conductivity umhos	1140	10.0	umhos/cm		1130			0.986	10
<b>Duplicate (BEL0497-DUP2)</b>									
Source: 23L0704-01 Prepared & Analyzed: 12/13/2023									
Electrical Conductivity	1.94	0.01	mmhos/cm		1.91			1.40	10
Electrical Conductivity umhos	1940	10.0	umhos/cm		1910			1.40	10
pH	7.3	1.0	units		7.4			0.815	10
<b>Reference (BEL0497-SRM1)</b>									
Prepared & Analyzed: 12/13/2023									
Electrical Conductivity	456		umhos/cm	426.0	107	90-110			
<b>Reference (BEL0497-SRM2)</b>									
Prepared & Analyzed: 12/13/2023									
pH	7.5		units	7.520	100	67021-101.3%			
<b>Reference (BEL0497-SRM3)</b>									
Prepared & Analyzed: 12/13/2023									
Electrical Conductivity	1090		umhos/cm	1000	109	90-110			
Electrical Conductivity umhos	1090		umhos/cm	1000	109	90-110			
<b>Reference (BEL0497-SRM4)</b>									
Prepared & Analyzed: 12/13/2023									
Electrical Conductivity	1090		umhos/cm	1000	109	90-110			
Electrical Conductivity umhos	1090		umhos/cm	1000	109	90-110			
<b>Reference (BEL0497-SRM5)</b>									
Prepared & Analyzed: 12/13/2023									
Electrical Conductivity	1070		umhos/cm	1000	107	90-110			

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**Quality Control**  
**(Continued)**

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEL0497 (Continued)</b>									
<b>Reference (BEL0497-SRM5)</b>									
Electrical Conductivity umhos	1070		umhos/cm	1000	107	90-110			
<b>Reference (BEL0497-SRM6)</b>									
pH	4.0		units	4.000	100	97.5-102.5			
<b>Reference (BEL0497-SRM7)</b>									
pH	4.0		units	4.000	101	97.5-102.5			
<b>Reference (BEL0497-SRM8)</b>									
pH	4.0		units	4.000	100	97.5-102.5			

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12/13/23 07:00

23L0690

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



Sozinho #5  
12252 7th Ave  
Hanford, CA 93230

Account# 00-0025831  
Account Manager: Ben Nydam  
Submitted By: Christina Medeiros

Received: 08/17/2023 8:38  
Reported: 08/21/2023 15:17

### Samples in this Report

Lab ID	Sample	Matrix	Sampled By	Crop	Date Sampled
23H1605-01	Canal	Ag Water			08/16/2023 15:50

Default Cooler      Temperature on Receipt °C: 0.8  
Containers Intact  
COC/Labels Agree  
Received On Ice

### Notes and Definitions

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

Laboratory Director/Technical Manager

ELAP Certification #1595  
A2LA Certification #6440.02

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Received: 08/17/2023 8:38  
Reported: 08/21/2023 15:17

## Sample Results

**Sample: Canal**  
**23H1605-01 (Water)**

Sampled: 8/16/2023 15:50

Sampled By:

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
<b>Electrical Conductivity</b>	<b>0.02</b>	mmhos/cm	0.01	1		08/18/23 17:57	SM 2510 B		BEH0919
Nitrate Nitrogen as NO <sub>3</sub> N	ND	mg/L	0.1	1	10	08/18/23 13:30	EPA 300.0		BEH0887

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Received: 08/17/2023 8:38  
Reported: 08/21/2023 15:17

## Quality Control

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

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12252 7th Ave  
Hanford, CA 93230

Account# 00-0025831  
Account Manager: Ben Nydam  
Submitted By: Christina Medeiros

Received: 08/17/2023 8:38  
Reported: 08/21/2023 15:17

**Quality Control**  
**(Continued)**

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
<b>Batch: BEH0919</b>									
<b>Blank (BEH0919-BLK1)</b>									
Electrical Conductivity	ND		0.01	mmhos/cm	Prepared: 8/17/2023 Analyzed: 8/18/2023				
<b>Blank (BEH0919-BLK2)</b>									
Electrical Conductivity	ND		0.01	mmhos/cm	Prepared: 8/17/2023 Analyzed: 8/18/2023				
<b>Blank (BEH0919-BLK3)</b>									
Electrical Conductivity	ND		0.01	mmhos/cm	Prepared: 8/17/2023 Analyzed: 8/18/2023				
<b>Duplicate (BEH0919-DUP1)</b>									
Electrical Conductivity	0.02		0.01	mmhos/cm	Source: 23H1632-01 Prepared: 8/17/2023 Analyzed: 8/18/2023	0.02		6.30	10
<b>Duplicate (BEH0919-DUP2)</b>									
Electrical Conductivity	0.47		0.01	mmhos/cm	Source: 23H1667-01 Prepared: 8/17/2023 Analyzed: 8/18/2023	0.47		0.466	10
<b>Reference (BEH0919-SRM1)</b>									
Electrical Conductivity	517			umhos/cm	538.0	96.1	90-110		
<b>Reference (BEH0919-SRM3)</b>									
Electrical Conductivity	981			umhos/cm	1000	98.1	90-110		
<b>Reference (BEH0919-SRM4)</b>									
Electrical Conductivity	990			umhos/cm	1000	99.0	90-110		
<b>Reference (BEH0919-SRM5)</b>									
Electrical Conductivity	994			umhos/cm	1000	99.4	90-110		

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08/17/23 08:38

23H1605

## **WATER WORK REQUEST**

Acct No. 25831 Cons. 8

---

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

Client	<b>Sozinho #5</b>
Address	12252 7th Ave
City, State, Zip	Hanford CA 93230
Email	joesozinho@gmail.com

Copy to: mel\_tinamedeiros@yahoo.com

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

Facility:

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

Sampled by \_\_\_\_\_

QA/QC Document       Copy of Chain       RWQCB

#### DESCRIPTION OF SAMPLES

1.	(anal)	Sampled From:
2.		Sampled From:
3.		Sampled From:
4.		Sampled From:
5.		Sampled From:
6.		Sampled From:
7.		Sampled From:
8.		Sampled From:
9.		Sampled From:
10.		Sampled From:

**CHAIN OF CUSTODY**

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First	<u>Mark</u>	Medevac		8/16/23 4:35pm
Second	<u>Sam Nyle</u>	OHS	8/16/23 4:35pm	8/16/23
Third	MM	DLI	8/17/23 8:38	
Fourth				

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

If payment is not made when due and a legitimate dispute exists concerning the product or services of Deltalabs Laboratory Inc. it will be submitted to mediation under the Rules and Procedures of Creative Alternative to Litigation, Inc. (CAL). If the dispute is not resolved in mediation, then

The parties shall make every effort to resolve disputes amicably. If no resolution can be reached, either party may file a complaint with the appropriate state or federal court. The parties shall not commence any legal action without first attempting to resolve the dispute through mediation. The parties shall select a mediator from the list of mediators provided by the American Arbitration Association. The mediator shall be responsible for scheduling the mediation session and shall facilitate the resolution of the dispute. The parties shall bear their own costs of mediation, unless otherwise agreed upon by the mediator.

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

Sample received in cooler with ice?

Yes       No      Last update: 2020

Entered SN: 200560723

IR Thermometer SN: 20

Page: 8/26/2023

Calibration Due: 9/26

BL

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