

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 #1

Physical address of dairy:

11447 8 1/2 AVE Number and Street	Hanford City	Kings County	93230 Zip Code
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Street and nearest cross street (if no address): _____

Date facility was originally placed in operation: 06/20/1979

Regional Water Quality Control Board Basin Plan designation: Tulare Basin

County Assessor Parcel Number(s) for dairy facility:

0016-0140-0011-0000	0016-0140-0059-0000	0016-0140-0074-0000	0016-0140-0075-0000
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B. OPERATORS

Sozinho, Danny

Operator name: <u>Sozinho, Danny</u>	Telephone no.: <u>(559) 582-5377</u>	Landline	Cellular
8489 E Elkhorn AVE Mailing Address Number and Street	Selma City	CA State	93662 Zip Code

C. OWNERS

Sozinho Family Trust

Legal owner name: <u>Sozinho Family Trust</u>	Telephone no.: <u>(559) 582-5377</u>	Landline	Cellular
11447 8 1/2 AVE Mailing Address Number and Street	Hanford City	CA State	93230 Zip Code

This owner is responsible for paying permit fees.

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AVAILABLE NUTRIENTS**A. HERD INFORMATION**

	Milk Cows	Dry Cows	Bred Heifers (15-24 mo.)	Heifers (7-14 mo. to breeding)	Calves (4-6 mo.)	Calves (0-3 mo.)
Number open confinement	270	190	350	750	275	375
Number under roof	930	0	0	0	0	0
Maximum number	1,200	190	350	750	275	375
Average number	1,200	190	350	750	275	375
Avg live weight (lbs)	1,200	1,300	1,000	800		

Predominant milk cow breed: Holstein

Average milk production: 69 pounds per cow per day

B. MANURE GENERATED

Total manure excreted by the herd: 46,561.72 tons per reporting period

Total nitrogen from manure: 572,894.77 lbs per reporting period

After ammonia losses (30% loss applied): 401,026.34 lbs per reporting period

Total phosphorus from manure: 92,386.70 lbs per reporting period

Total potassium from manure: 229,022.67 lbs per reporting period

Total salt from manure: 608,710.50 lbs per reporting period

C. PROCESS WASTEWATER GENERATED

Process wastewater generated: 46,180,000 gallons

Total nitrogen generated: 198,842.29 lbs

Total phosphorus generated: 15,068.88 lbs

Total potassium generated: 139,318.81 lbs

Total salt generated: 922,401.95 lbs

$$\begin{aligned}
 & 46,180,000 \text{ gallons applied} \\
 & + 0 \text{ gallons exported} \\
 & - 0 \text{ gallons imported} \\
 & = 46,180,000 \text{ gallons generated}
 \end{aligned}$$

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**

Date	Material type	Quantity	Reporting basis	Moisture (%)	Density (lbs/cu ft)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
06/05/2023	Corral solids	2,000.00 ton	As-is	15.6		11,700.00	6,000.00	22,900.00		68.10
10/15/2023	Corral solids	1,000.00 ton	As-is	38.9		7,212.00	4,250.00	18,196.00		68.80

No liquid nutrient exports entered.

Material type	Total N (lbs)	Total P (lbs)	Total K (lbs)	Total salt (lbs)
Dry manure	61,224.00	32,500.00	127,992.00	3,139,792.00
Process wastewater	0.00	0.00	0.00	0.00
Total exports for all materials	61,224.00	32,500.00	127,992.00	3,139,792.00

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APPLICATION AREA

A. LIST OF LAND APPLICATION AREAS

Field name	Controlled acres	Cropable acres	Total harvests	Type of waste applied	Parcel number
Field 1	11	11	2	process wastewater	X016-X140-X084-XXXX
Field 2N	15	15	2	process wastewater	X016-X140-X059-XXXX X016-X140-X093-XXXX
Field 2S	7	7	2	process wastewater	X016-X140-X061-XXXX X016-X140-X093-XXXX
Field 3	47	47	2	process wastewater	X016-X140-X014-XXXX
Field 4	77	77	2	both	X016-X140-X081-XXXX
Field 5	28	28	2	process wastewater	X016-X140-X094-XXXX
Field 6	18	18	2	process wastewater	X016-X140-X018-XXXX
Field 7	32	32	2	process wastewater	X016-X140-X070-XXXX
Field 8	54	54	2	process wastewater	X016-X140-X085-XXXX
Field 9	66	66	2	both	X016-X140-X085-XXXX
Totals for areas that were used for application	355	355	20		
Totals for areas that were not used for application					
Land application area totals	355	355	20		

B. CROPS AND HARVESTS

Field 1

Field name: Field 1

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

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

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/11/2023	183.50 ton	Dry-weight		61.4	11,700.00	2,700.00	22,500.00		10.37

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	256.00	44.80	192.00	0.00
Total actual harvest content	16.68	150.68	34.77	289.76	1,335.49

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Field 1

06/15/2023: Corn, silage

Crop: Corn, silage Acres planted: 11 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	315.20 ton	Dry-weight		76.0	19,102.00	3,560.00	32,800.00		8.90
Anticipated harvest content									
Total actual harvest content									

Field 2N

Field name: Field 2N

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

Crop: Wheat, silage, boot stage Acres planted: 15 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 (%)
05/11/2023	265.30 ton	Dry-weight		64.4	13,800.00	3,200.00	27,900.00		13.36
Anticipated harvest content									
Total actual harvest content									

06/15/2023: Corn, silage

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

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/26/2023	446.50 ton	Dry-weight		63.0	15,595.00	3,060.00	19,600.00		6.20
Anticipated harvest content									
Total actual harvest content									

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Field 2S

Field name: Field 2S

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

Crop: Wheat, silage, boot stage Acres planted: 7 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 (%)
05/11/2023	121.30 ton	Dry-weight		68.0	15,200.00	3,100.00	24,900.00		11.48

	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	17.33	168.57	34.38	276.15	1,273.16

06/15/2023: Corn, silage

Crop: Corn, silage Acres planted: 7 Plant date: 06/15/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/26/2023	205.00 ton	Dry-weight		68.6	14,510.00	2,130.00	21,900.00		7.51

	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	29.29	266.86	39.17	402.77	1,381.20

Field 3

Field name: Field 3

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 (%)
05/11/2023	786.30 ton	Dry-weight		64.3	14,200.00	2,600.00	20,100.00		9.65

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	256.00	44.80	192.00	0.00
Total actual harvest content	16.73	169.62	31.06	240.10	1,152.70

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Field 3

06/15/2023: Corn, silage

Crop: Corn, silage Acres planted: 47 Plant date: 06/15/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/26/2023	1,336.80 <i>ton</i>	Dry-weight		65.8	12,914.00	3,100.00	23,800.00		6.00
Anticipated harvest content									
Total actual harvest content									

Field 4

Field name: Field 4

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

Crop: Wheat, silage, boot stage Acres planted: 77 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 (%)
05/11/2023	1,265.10 <i>ton</i>	Dry-weight		60.8	26,300.00	2,800.00	17,800.00		8.45
Anticipated harvest content									
Total actual harvest content									

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	2,178.60 <i>ton</i>	Dry-weight		66.2	15,688.00	3,430.00	21,200.00		7.10
Anticipated harvest content									
Total actual harvest content									

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Field 5

Field name: Field 5

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

Crop: Wheat, silage, boot stage Acres planted: 28 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 (%)
05/11/2023	489.40 ton	Dry-weight		60.3	18,300.00	2,800.00	20,200.00		8.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	256.00	44.80	192.00	0.00
Total actual harvest content	17.48	253.97	38.86	280.34	1,110.24

06/15/2023: Corn, silage

Crop: Corn, silage Acres planted: 28 Plant date: 06/15/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/26/2023	802.50 ton	Dry-weight		65.3	10,355.00	2,810.00	18,200.00		6.70

	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	28.66	205.97	55.89	362.01	1,332.67

Field 6

Field name: Field 6

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

Crop: Wheat, silage, boot stage Acres planted: 18 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 (%)
05/11/2023	305.20 ton	Dry-weight		60.6	23,100.00	3,000.00	9,600.00		7.11

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	256.00	44.80	192.00	0.00
Total actual harvest content	16.96	308.64	40.08	128.27	949.97

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Field 6

06/15/2023: Corn, silage

Crop: Corn, silage Acres planted: 18 Plant date: 06/15/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/26/2023	<u>525.10 ton</u>	Dry-weight		64.8	9,902.00	3,370.00	22,300.00		7.11
Anticipated harvest content									
Total actual harvest content									

Field 7

Field name: Field 7

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

Crop: Wheat, silage, boot stage Acres planted: 32 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 (%)
05/11/2023	<u>536.40 ton</u>	Dry-weight		64.9	13,100.00	3,500.00	27,100.00		10.61
Anticipated harvest content									
Total actual harvest content									

06/15/2023: Corn, silage

Crop: Corn, silage Acres planted: 32 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	<u>916.20 ton</u>	Dry-weight		65.9	15,066.00	3,510.00	21,100.00		7.11
Anticipated harvest content									
Total actual harvest content									

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Field 8

Field name: Field 8

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

Crop: Wheat, silage, boot stage Acres planted: 54 Plant date: 11/01/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/23/2023	896.30 ton	Dry-weight		60.9	27,000.00	3,600.00	20,900.00		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	16.60	350.45	46.73	271.28	1,108.47

06/15/2023: Corn, silage

Crop: Corn, silage Acres planted: 54 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	1,566.30 ton	Dry-weight		69.3	13,345.00	2,870.00	23,600.00		7.10

	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	29.01	237.67	51.11	420.30	1,264.47

Field 9

Field name: Field 9

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

Crop: Wheat, silage, boot stage Acres planted: 66 Plant date: 11/01/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/23/2023	1,123.30 ton	Dry-weight		60.0	20,100.00	3,500.00	22,200.00		8.31

	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	17.02	273.68	47.66	302.27	1,131.47

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Field 9

06/15/2023: Corn, silage

Crop: Corn, silage Acres planted: 66 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 (%)
10/23/2023	1,889.60 ton	Dry-weight		66.6	13,420.00	3,430.00	17,500.00		9.30

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	28.00	224.00	42.00	184.80	0.00
Total actual harvest content	28.63	256.66	65.60	334.69	1,778.63

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NUTRIENT BUDGET**A. LAND APPLICATIONS**

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

Field name: Field 1

Crop: Wheat, silage, boot stage

Plant date: 11/01/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application			Precipitation 24 hours following
01/18/2023	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	198.07	7.42	75.24	509.54	475,000.00 gal
Canal	Surface water	0.00	0.00	0.00	6.01	660,000.00 gal
Application event totals		198.07	7.42	75.24	515.55	
02/16/2023	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	8.19	900,000.00 gal
Application event totals		0.00	0.00	0.00	8.19	
03/17/2023	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	8.19	900,000.00 gal
Application event totals		0.00	0.00	0.00	8.19	

Field 1 - 06/15/2023: Corn, silage

Field name: Field 1

Crop: Corn, silage

Plant date: 06/15/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application			Precipitation 24 hours following
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
Canal	Surface water	0.00	0.00	0.00	10.92	1,200,000.00 gal
Application event totals		0.00	0.00	0.00	10.92	

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Field 1 - 06/15/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
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
Canal	Surface water	0.00	0.00	0.00	10.92	1,200,000.00 gal
Application event totals		0.00	0.00	0.00	10.92	
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
Canal	Surface water	0.00	0.00	0.00	10.92	1,200,000.00 gal
Application event totals		0.00	0.00	0.00	10.92	
08/05/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	334.15	47.12	348.83	2,231.19	1,050,000.00 gal
Canal	Surface water	0.00	0.00	0.00	10.92	1,200,000.00 gal
Application event totals		334.15	47.12	348.83	2,242.11	
08/15/2023	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	10.92	1,200,000.00 gal
Application event totals		0.00	0.00	0.00	10.92	
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
Canal	Surface water	0.00	0.00	0.00	10.92	1,200,000.00 gal
Application event totals		0.00	0.00	0.00	10.92	
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
Canal	Surface water	0.00	0.00	0.00	10.92	1,200,000.00 gal
Application event totals		0.00	0.00	0.00	10.92	

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Field 1 - 06/15/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
09/15/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	10.92	1,200,000.00 gal
Application event totals		0.00	0.00	0.00	10.92	

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

Field name: Field 2N

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	
01/05/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	5.47	820,000.00 gal
Application event totals		0.00	0.00	0.00	5.47	
02/08/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	108.25	4.06	41.12	278.48	354,000.00 gal
Canal	Surface water	0.00	0.00	0.00	5.47	820,000.00 gal
Application event totals		108.25	4.06	41.12	283.95	
03/10/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	5.47	820,000.00 gal
Application event totals		0.00	0.00	0.00	5.47	

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

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
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)
WW	Process wastewater	108.25	4.06	41.12	278.48
Canal	Surface water	0.00	0.00	0.00	5.47
Application event totals		108.25	4.06	41.12	283.95

Field 2N - 06/15/2023: Corn, silage

Field name: Field 2N

Crop: Corn, silage

Plant date: 06/15/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
07/08/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation
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	13.35
Application event totals		0.00	0.00	0.00	13.35
07/18/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Canal	Surface water	0.00	0.00	0.00	13.35
Application event totals		0.00	0.00	0.00	13.35
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)
Canal	Surface water	0.00	0.00	0.00	13.35
Application event totals		0.00	0.00	0.00	13.35

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Field 2N - 06/15/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
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
WW	Process wastewater	145.86	20.57	152.27	973.93	625,000.00 gal
Canal	Surface water	0.00	0.00	0.00	13.35	2,000,000.00 gal
Application event totals		145.86	20.57	152.27	987.28	
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
Canal	Surface water	0.00	0.00	0.00	13.35	2,000,000.00 gal
Application event totals		0.00	0.00	0.00	13.35	
08/28/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	228.90	16.26	228.40	1,565.73	625,000.00 gal
Canal	Surface water	0.00	0.00	0.00	13.35	2,000,000.00 gal
Application event totals		228.90	16.26	228.40	1,579.08	
09/08/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	13.35	2,000,000.00 gal
Application event totals		0.00	0.00	0.00	13.35	
09/18/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	13.35	2,000,000.00 gal
Application event totals		0.00	0.00	0.00	13.35	

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

Field name: Field 2S

Crop: Wheat, silage, boot stage

Plant date: 11/01/2022

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

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
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
Canal	Surface water	0.00	0.00	0.00	5.01	350,000.00 gal
Application event totals		0.00	0.00	0.00	5.01	
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
WW	Process wastewater	196.59	7.37	74.67	505.71	300,000.00 gal
Canal	Surface water	0.00	0.00	0.00	5.01	350,000.00 gal
Application event totals		196.59	7.37	74.67	510.71	
03/08/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	5.01	350,000.00 gal
Application event totals		0.00	0.00	0.00	5.01	
04/09/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	5.01	350,000.00 gal
Application event totals		0.00	0.00	0.00	5.01	

Field 2S - 06/15/2023: Corn, silage

Field name: Field 2S

Crop: Corn, silage

Plant date: 06/15/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
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	11.37	795,000.00 gal
Application event totals		0.00	0.00	0.00	11.37	

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Field 2S - 06/15/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
07/19/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	11.37	795,000.00 gal
Application event totals		0.00	0.00	0.00	11.37	
07/29/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	125.02	17.63	130.52	834.80	250,000.00 gal
Canal	Surface water	0.00	0.00	0.00	11.37	795,000.00 gal
Application event totals		125.02	17.63	130.52	846.17	
08/09/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	11.37	795,000.00 gal
Application event totals		0.00	0.00	0.00	11.37	
08/19/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	196.20	13.94	195.77	1,342.05	250,000.00 gal
Canal	Surface water	0.00	0.00	0.00	11.37	795,000.00 gal
Application event totals		196.20	13.94	195.77	1,353.43	
08/29/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	11.37	795,000.00 gal
Application event totals		0.00	0.00	0.00	11.37	
09/09/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	11.37	795,000.00 gal
Application event totals		0.00	0.00	0.00	11.37	

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Field 2S - 06/15/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
09/19/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Canal	Surface water	0.00	0.00	0.00	11.37
Application event totals		0.00	0.00	0.00	11.37
					795,000.00 gal

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

Field name: Field 3

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

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
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)
WW	Process wastewater	105.40	3.95	40.04	271.15
Canal	Surface water	0.00	0.00	0.00	6.78
Application event totals		105.40	3.95	40.04	277.92
02/06/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Canal	Surface water	0.00	0.00	0.00	6.78
Application event totals		0.00	0.00	0.00	6.78
03/08/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
WW	Process wastewater	105.40	3.95	40.04	271.15
Canal	Surface water	0.00	0.00	0.00	6.78
Application event totals		105.40	3.95	40.04	277.92

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

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
Canal	Surface water	0.00	0.00	0.00	6.78	3,180,000.00 gal
Application event totals		0.00	0.00	0.00	6.78	

Field 3 - 06/15/2023: Corn, silage

Field name: Field 3

Crop: Corn, silage

Plant date: 06/15/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
07/12/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	15.08	7,080,000.00 gal
Application event totals		0.00	0.00	0.00	15.08	
07/22/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	93.85	13.23	97.97	626.63	1,260,000.00 gal
Canal	Surface water	0.00	0.00	0.00	15.08	7,080,000.00 gal
Application event totals		93.85	13.23	97.97	641.72	
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
Canal	Surface water	0.00	0.00	0.00	15.08	7,080,000.00 gal
Application event totals		0.00	0.00	0.00	15.08	

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Field 3 - 06/15/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
08/12/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	93.85	13.23	97.97	626.63	1,260,000.00 gal
Canal	Surface water	0.00	0.00	0.00	15.08	7,080,000.00 gal
Application event totals		93.85	13.23	97.97	641.72	
08/22/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	15.08	7,080,000.00 gal
Application event totals		0.00	0.00	0.00	15.08	
09/02/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	147.28	10.46	146.96	1,007.40	1,260,000.00 gal
Canal	Surface water	0.00	0.00	0.00	15.08	7,080,000.00 gal
Application event totals		147.28	10.46	146.96	1,022.48	
09/12/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	15.08	7,080,000.00 gal
Application event totals		0.00	0.00	0.00	15.08	

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

Field name: Field 4

Crop: Wheat, silage, boot stage

Plant date: 11/01/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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Field 4 - 11/01/2022: Wheat, silage, boot stage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
10/05/2022	Plow/disc	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Dry Manure	Corral solids	103.03	60.71	259.94	6,005.26	550.00 ton
Application event totals		103.03	60.71	259.94	6,005.26	
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
WW	Process wastewater	98.95	3.71	37.59	254.54	1,661,000.00 gal
Canal	Surface water	0.00	0.00	0.00	5.12	3,936,000.00 gal
Application event totals		98.95	3.71	37.59	259.66	
02/05/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	98.95	3.71	37.59	254.54	1,661,000.00 gal
Canal	Surface water	0.00	0.00	0.00	5.12	3,936,000.00 gal
Application event totals		98.95	3.71	37.59	259.66	
03/06/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	98.95	3.71	37.59	254.54	1,661,000.00 gal
Canal	Surface water	0.00	0.00	0.00	5.12	3,936,000.00 gal
Application event totals		98.95	3.71	37.59	259.66	
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
Canal	Surface water	0.00	0.00	0.00	5.12	3,936,000.00 gal
Application event totals		0.00	0.00	0.00	5.12	

Field 4 - 06/15/2023: Corn, silage

Field name: Field 4

Crop: Corn, silage

Plant date: 06/15/2023

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Field 4 - 06/15/2023: 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
Dry Manure	Corral solids	167.14	85.71	327.14	8,210.91	550.00 ton
Application event totals		167.14	85.71	327.14	8,210.91	
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
Canal	Surface water	0.00	0.00	0.00	15.97	12,280,000.00 gal
Application event totals		0.00	0.00	0.00	15.97	
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
Canal	Surface water	0.00	0.00	0.00	15.97	12,280,000.00 gal
Application event totals		0.00	0.00	0.00	15.97	
08/04/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	65.06	9.17	67.92	434.40	1,431,000.00 gal
Canal	Surface water	0.00	0.00	0.00	15.97	12,280,000.00 gal
Application event totals		65.06	9.17	67.92	450.37	
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
Canal	Surface water	0.00	0.00	0.00	15.97	12,280,000.00 gal
Application event totals		0.00	0.00	0.00	15.97	
08/24/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	65.06	9.17	67.92	434.40	1,431,000.00 gal
Canal	Surface water	0.00	0.00	0.00	15.97	12,280,000.00 gal
Application event totals		65.06	9.17	67.92	450.37	

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Field 4 - 06/15/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
09/04/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	15.97	12,280,000.00 gal
Application event totals		0.00	0.00	0.00	15.97	
09/14/2023	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	102.10	7.25	101.87	698.36	1,431,000.00 gal
Canal	Surface water	0.00	0.00	0.00	15.97	12,280,000.00 gal
Application event totals		102.10	7.25	101.87	714.33	

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

Field name: Field 5

Crop: Wheat, silage, boot stage

Plant date: 11/01/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
01/06/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	5.87	1,640,000.00 gal
Application event totals		0.00	0.00	0.00	5.87	
02/08/2023	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	102.39	3.84	38.89	263.39	625,000.00 gal
Canal	Surface water	0.00	0.00	0.00	5.87	1,640,000.00 gal
Application event totals		102.39	3.84	38.89	269.25	

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

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
03/06/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	102.39	3.84	38.89	263.39	625,000.00 gal
Canal	Surface water	0.00	0.00	0.00	5.87	1,640,000.00 gal
Application event totals		102.39	3.84	38.89	269.25	
04/08/2023	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	102.39	3.84	38.89	263.39	625,000.00 gal
Canal	Surface water	0.00	0.00	0.00	5.87	1,640,000.00 gal
Application event totals		102.39	3.84	38.89	269.25	

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

Field name: Field 5

Crop: Corn, silage

Plant date: 06/15/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
07/07/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	12.59	3,520,000.00 gal
Application event totals		0.00	0.00	0.00	12.59	
07/17/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	103.52	14.60	108.07	691.21	828,000.00 gal
Canal	Surface water	0.00	0.00	0.00	12.59	3,520,000.00 gal
Application event totals		103.52	14.60	108.07	703.80	

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

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
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
Canal	Surface water	0.00	0.00	0.00	12.59	3,520,000.00 gal
Application event totals		0.00	0.00	0.00	12.59	
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	12.59	3,520,000.00 gal
Application event totals		0.00	0.00	0.00	12.59	
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	165.20	11.73	164.84	1,130.01	842,000.00 gal
Canal	Surface water	0.00	0.00	0.00	12.59	3,520,000.00 gal
Application event totals		165.20	11.73	164.84	1,142.60	
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	12.59	3,520,000.00 gal
Application event totals		0.00	0.00	0.00	12.59	
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
Canal	Surface water	0.00	0.00	0.00	12.59	3,520,000.00 gal
Application event totals		0.00	0.00	0.00	12.59	
09/17/2023	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	12.59	3,520,000.00 gal
Application event totals		0.00	0.00	0.00	12.59	

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

Field name: Field 6

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	
01/03/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	5.79	1,040,000.00 gal
Application event totals		0.00	0.00	0.00	5.79	
02/04/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	138.12	5.18	52.46	355.31	542,000.00 gal
Canal	Surface water	0.00	0.00	0.00	5.79	1,040,000.00 gal
Application event totals		138.12	5.18	52.46	361.09	
03/06/2023	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	138.12	5.18	52.46	355.31	542,000.00 gal
Canal	Surface water	0.00	0.00	0.00	5.79	1,040,000.00 gal
Application event totals		138.12	5.18	52.46	361.09	
04/04/2023	Shank	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	138.12	5.18	52.46	355.31	542,000.00 gal
Canal	Surface water	0.00	0.00	0.00	5.79	1,040,000.00 gal
Application event totals		138.12	5.18	52.46	361.09	

Field 6 - 06/15/2023: Corn, silage

Field name: Field 6

Crop: Corn, silage

Plant date: 06/15/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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Field 6 - 06/15/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
07/16/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	14.46	2,600,000.00 gal
Application event totals		0.00	0.00	0.00	14.46	
07/26/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	118.63	16.73	123.84	792.13	610,000.00 gal
Canal	Surface water	0.00	0.00	0.00	14.46	2,600,000.00 gal
Application event totals		118.63	16.73	123.84	806.60	
08/06/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	14.46	2,600,000.00 gal
Application event totals		0.00	0.00	0.00	14.46	
08/16/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	118.63	16.73	123.84	792.13	610,000.00 gal
Canal	Surface water	0.00	0.00	0.00	14.46	2,600,000.00 gal
Application event totals		118.63	16.73	123.84	806.60	
08/26/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	14.46	2,600,000.00 gal
Application event totals		0.00	0.00	0.00	14.46	
09/06/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	14.46	2,600,000.00 gal
Application event totals		0.00	0.00	0.00	14.46	

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Field 6 - 06/15/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
09/16/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	14.46	2,600,000.00 gal
Application event totals		0.00	0.00	0.00	14.46	

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

Field name: Field 7

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

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
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
Canal	Surface water	0.00	0.00	0.00	5.79	1,850,000.00 gal
Application event totals		0.00	0.00	0.00	5.79	
02/05/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	59.20	2.22	22.49	152.29	413,000.00 gal
Canal	Surface water	0.00	0.00	0.00	5.79	1,850,000.00 gal
Application event totals		59.20	2.22	22.49	158.08	
03/06/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	59.20	2.22	22.49	152.29	413,000.00 gal
Canal	Surface water	0.00	0.00	0.00	5.79	1,850,000.00 gal
Application event totals		59.20	2.22	22.49	158.08	

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

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
WW	Process wastewater	59.20	2.22	22.49	152.29	413,000.00 gal
Canal	Surface water	0.00	0.00	0.00	5.79	1,850,000.00 gal
Application event totals		59.20	2.22	22.49	158.08	

Field 7 - 06/15/2023: Corn, silage

Field name: Field 7

Crop: Corn, silage Plant date: 06/15/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
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
Canal	Surface water	0.00	0.00	0.00	12.27	3,920,000.00 gal
Application event totals		0.00	0.00	0.00	12.27	
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
WW	Process wastewater	114.86	16.20	119.91	766.97	1,050,000.00 gal
Canal	Surface water	0.00	0.00	0.00	12.27	3,920,000.00 gal
Application event totals		114.86	16.20	119.91	779.24	
08/05/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	12.27	3,920,000.00 gal
Application event totals		0.00	0.00	0.00	12.27	

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Field 7 - 06/15/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
08/15/2023	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	114.86	16.20	119.91	766.97	1,050,000.00 gal
Canal	Surface water	0.00	0.00	0.00	12.27	3,920,000.00 gal
Application event totals		114.86	16.20	119.91	779.24	
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
Canal	Surface water	0.00	0.00	0.00	12.27	3,920,000.00 gal
Application event totals		0.00	0.00	0.00	12.27	
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
WW	Process wastewater	114.86	16.20	119.91	766.97	1,050,000.00 gal
Canal	Surface water	0.00	0.00	0.00	12.27	3,920,000.00 gal
Application event totals		114.86	16.20	119.91	779.24	
09/15/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	12.27	3,920,000.00 gal
Application event totals		0.00	0.00	0.00	12.27	

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

Field name: Field 8

Crop: Wheat, silage, boot stage

Plant date: 11/01/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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Field 8 - 11/01/2022: Wheat, silage, boot stage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
01/07/2023	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	142.45	5.34	54.11	366.45	1,677,000.00 gal
Canal	Surface water	0.00	0.00	0.00	5.86	3,160,000.00 gal
Application event totals		142.45	5.34	54.11	372.31	
02/08/2023	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	142.45	5.34	54.11	366.45	1,677,000.00 gal
Canal	Surface water	0.00	0.00	0.00	5.86	3,160,000.00 gal
Application event totals		142.45	5.34	54.11	372.31	
03/07/2023	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
Canal	Surface water	0.00	0.00	0.00	5.86	3,160,000.00 gal
Application event totals		0.00	0.00	0.00	5.86	
04/08/2023	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	142.45	5.34	54.11	366.45	1,677,000.00 gal
Canal	Surface water	0.00	0.00	0.00	5.86	3,160,000.00 gal
Application event totals		142.45	5.34	54.11	372.31	

Field 8 - 06/15/2023: Corn, silage

Field name: Field 8

Crop: Corn, silage

Plant date: 06/15/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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Field 8 - 06/15/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
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
Canal	Surface water	0.00	0.00	0.00	14.69	7,920,000.00 gal
Application event totals		0.00	0.00	0.00	14.69	
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
WW	Process wastewater	105.02	14.81	109.63	701.23	1,620,000.00 gal
Canal	Surface water	0.00	0.00	0.00	14.69	7,920,000.00 gal
Application event totals		105.02	14.81	109.63	715.92	
08/04/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	14.69	7,920,000.00 gal
Application event totals		0.00	0.00	0.00	14.69	
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
WW	Process wastewater	79.09	11.15	82.56	528.09	1,220,000.00 gal
Canal	Surface water	0.00	0.00	0.00	14.69	7,920,000.00 gal
Application event totals		79.09	11.15	82.56	542.77	
08/24/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	14.69	7,920,000.00 gal
Application event totals		0.00	0.00	0.00	14.69	

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Field 8 - 06/15/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
09/04/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	124.12	8.82	123.84	848.97	1,220,000.00 gal
Canal	Surface water	0.00	0.00	0.00	14.69	7,920,000.00 gal
Application event totals		124.12	8.82	123.84	863.66	
09/14/2023	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	14.69	7,920,000.00 gal
Application event totals		0.00	0.00	0.00	14.69	

Field 9 - 11/01/2022: Wheat, silage, boot stage

Field name: Field 9

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

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
10/05/2022	Plow/disc	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Dry Manure	Corral solids	109.27	64.39	275.70	6,369.21	500.00 ton
Application event totals		109.27	64.39	275.70	6,369.21	
12/30/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	79.92	3.00	30.36	205.60	1,150,000.00 gal
Application event totals		79.92	3.00	30.36	205.60	

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Field 9 - 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	79.92	3.00	30.36	205.60	1,150,000.00 gal
Canal	Surface water	0.00	0.00	0.00	5.01	3,300,000.00 gal
Application event totals		79.92	3.00	30.36	210.61	
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)	Amount
WW	Process wastewater	79.92	3.00	30.36	205.60	1,150,000.00 gal
Canal	Surface water	0.00	0.00	0.00	5.01	3,300,000.00 gal
Application event totals		79.92	3.00	30.36	210.61	
03/18/2023	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	5.01	3,300,000.00 gal
Application event totals		0.00	0.00	0.00	5.01	

Field 9 - 06/15/2023: Corn, silage

Field name:	Field 9	Plant date:	06/15/2023			
Crop:	Corn, silage					
Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
06/01/2023	Plow/disc	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Dry Manure	Corral solids	132.95	68.18	260.23	6,531.41	375.00 ton
Application event totals		132.95	68.18	260.23	6,531.41	

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Field 9 - 06/15/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
07/13/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	12.93	8,520,000.00 gal
Application event totals		0.00	0.00	0.00	12.93	
07/23/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	59.40	8.38	62.01	396.66	1,120,000.00 gal
Canal	Surface water	0.00	0.00	0.00	12.93	8,520,000.00 gal
Application event totals		59.40	8.38	62.01	409.58	
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
Canal	Surface water	0.00	0.00	0.00	12.93	8,520,000.00 gal
Application event totals		0.00	0.00	0.00	12.93	
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
WW	Process wastewater	59.40	8.38	62.01	396.66	1,120,000.00 gal
Canal	Surface water	0.00	0.00	0.00	12.93	8,520,000.00 gal
Application event totals		59.40	8.38	62.01	409.58	
08/23/2023	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	12.93	8,520,000.00 gal
Application event totals		0.00	0.00	0.00	12.93	

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

Field 9 - 06/15/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
09/03/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	93.23	6.62	93.02	637.68	1,120,000.00 gal
Canal	Surface water	0.00	0.00	0.00	12.93	8,520,000.00 gal
Application event totals		93.23	6.62	93.02	650.61	
09/13/2023	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	12.93	8,520,000.00 gal
Application event totals		0.00	0.00	0.00	12.93	

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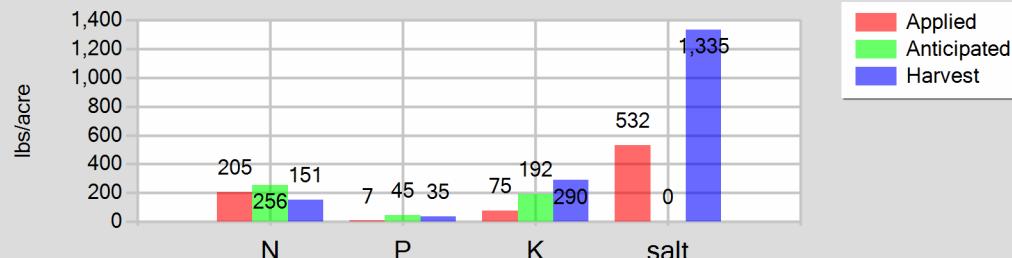
Reporting period 01/01/2023 to 12/31/2023.

B. NUTRIENT BUDGET

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

Field name: Field 1 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	198.07	7.42	75.24	509.54
Fresh water	0.00	0.00	0.00	22.39
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	205.07	7.42	75.24	531.93
Anticipated crop nutrient removal	256.00	44.80	192.00	0.00
Actual crop nutrient removal	150.68	34.77	289.76	1,335.49
Nutrient balance	54.40	-27.35	-214.53	-803.55
Applied to removed ratio	1.36	0.21	0.26	0.40

Fresh water applied

2,460,000.00 gallons
90.59 acre-inches
8.24 inches/acre

Process wastewater applied

475,000.00 gallons
17.49 acre-inches
1.59 inches/acre

Total harvests for the crop

1 harvests

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

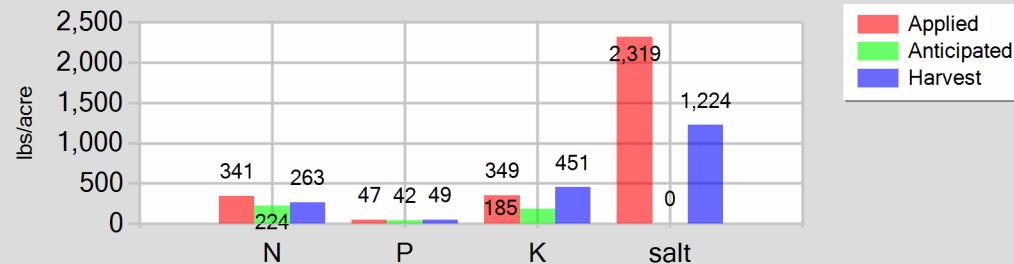
Field 1 - 06/15/2023: Corn, silage

Field name: Field 1

Crop: Corn, silage

Plant date: 06/15/2023

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	9,600,000.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	353.54 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	32.14 inches/acre
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	334.15	47.12	348.83	2,231.19	1,050,000.00 gallons
Fresh water	0.00	0.00	0.00	87.39	38.67 acre-inches
Atmospheric deposition	7.00	0.00	0.00	0.00	3.52 inches/acre
Total nutrients applied	341.15	47.12	348.83	2,318.58	
Anticipated crop nutrient removal	224.00	42.00	184.80	0.00	
Actual crop nutrient removal	262.73	48.96	451.14	1,224.12	
Nutrient balance	78.42	-1.85	-102.30	1,094.46	
Applied to removed ratio	1.30	0.96	0.77	1.89	
Total harvests for the crop					1 harvests

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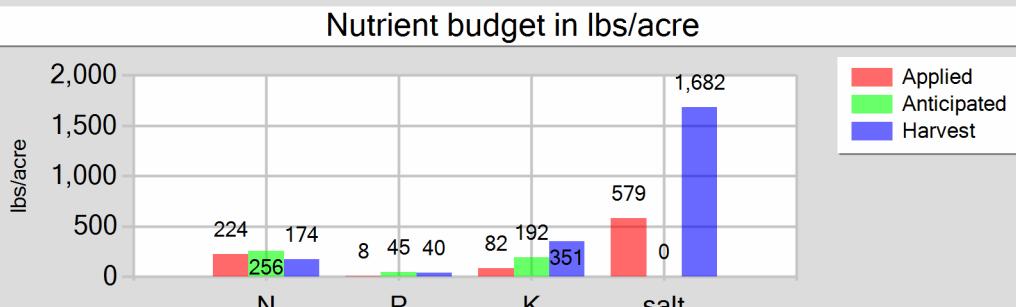
Reporting period 01/01/2023 to 12/31/2023.

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

Field name: Field 2N

Crop: Wheat, silage, boot stage

Plant date: 11/01/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	216.51	8.11	82.24	556.95
Fresh water	0.00	0.00	0.00	21.90
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	223.51	8.11	82.24	578.85
Anticipated crop nutrient removal	256.00	44.80	192.00	0.00
Actual crop nutrient removal	173.78	40.30	351.34	1,682.41
Nutrient balance	49.72	-32.18	-269.10	-1,103.56
Applied to removed ratio	1.29	0.20	0.23	0.34

Fresh water applied

3,280,000.00 gallons
120.79 acre-inches
8.05 inches/acre

Process wastewater applied

708,000.00 gallons
26.07 acre-inches
1.74 inches/acre

Total harvests for the crop

1 harvests

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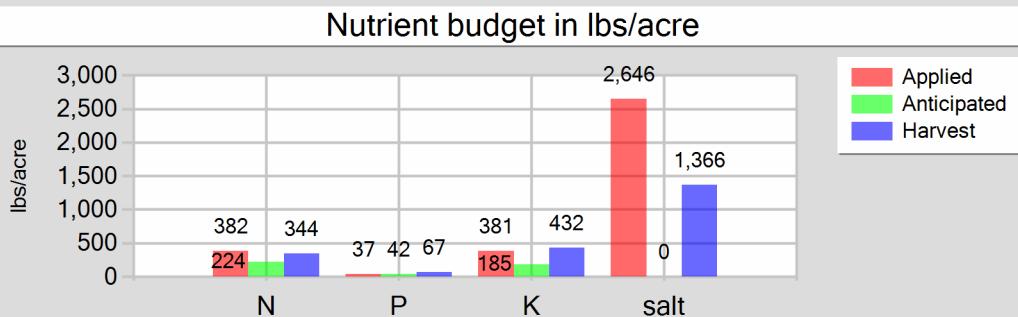
Reporting period 01/01/2023 to 12/31/2023.

Field 2N - 06/15/2023: Corn, silage

Field name: Field 2N

Crop: Corn, silage

Plant date: 06/15/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	374.76	36.83	380.67	2,539.66
Fresh water	0.00	0.00	0.00	106.82
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	381.76	36.83	380.67	2,646.48
Anticipated crop nutrient removal	224.00	42.00	184.80	0.00
Actual crop nutrient removal	343.52	67.40	431.74	1,365.69
Nutrient balance	38.25	-30.58	-51.06	1,280.78
Applied to removed ratio	1.11	0.55	0.88	1.94

Fresh water applied

16,000,000.00 gallons
589.23 acre-inches
39.28 inches/acre

Process wastewater applied

1,250,000.00 gallons
46.03 acre-inches
3.07 inches/acre

Total harvests for the crop

1 harvests

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

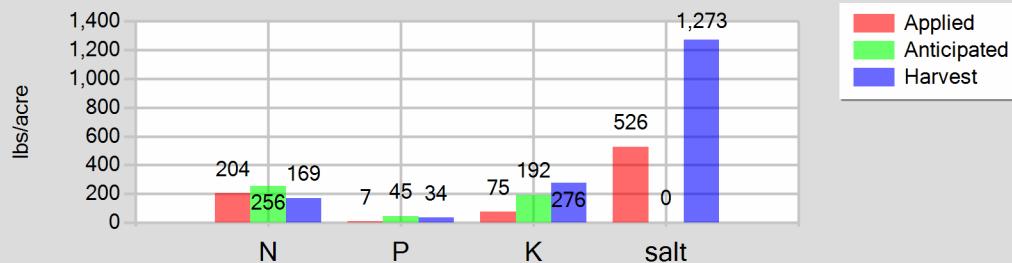
Field 2S - 11/01/2022: Wheat, silage, boot stage

Field name: Field 2S

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	196.59	7.37	74.67	505.71
Fresh water	0.00	0.00	0.00	20.03
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	203.59	7.37	74.67	525.74
Anticipated crop nutrient removal	256.00	44.80	192.00	0.00
Actual crop nutrient removal	168.57	34.38	276.15	1,273.16
Nutrient balance	35.01	-27.01	-201.48	-747.43
Applied to removed ratio	1.21	0.21	0.27	0.41

Fresh water applied

1,400,000.00 gallons
51.56 acre-inches
7.37 inches/acre

Process wastewater applied

300,000.00 gallons
11.05 acre-inches
1.58 inches/acre

Total harvests for the crop

1 harvests

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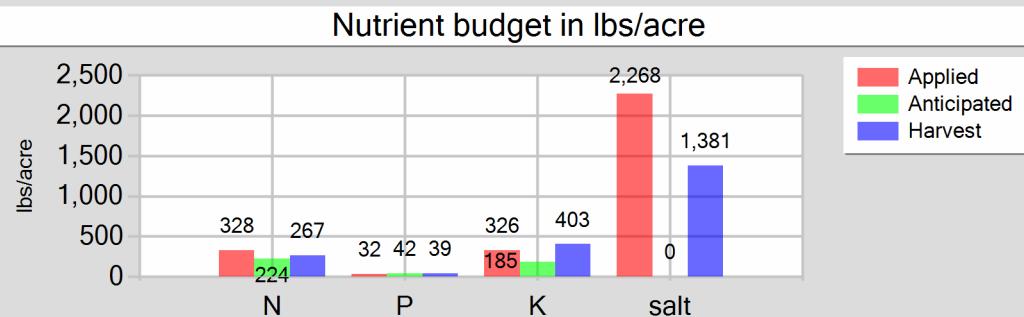
Reporting period 01/01/2023 to 12/31/2023.

Field 2S - 06/15/2023: Corn, silage

Field name: Field 2S

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	6,360,000.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	234.22 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	33.46 inches/acre
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	321.23	31.56	326.29	2,176.85	Process wastewater applied
Fresh water	0.00	0.00	0.00	90.98	500,000.00 gallons
Atmospheric deposition	7.00	0.00	0.00	0.00	18.41 acre-inches
Total nutrients applied	328.23	31.56	326.29	2,267.84	2.63 inches/acre
Anticipated crop nutrient removal	224.00	42.00	184.80	0.00	
Actual crop nutrient removal	266.86	39.17	402.77	1,381.20	Total harvests for the crop
Nutrient balance	61.37	-7.61	-76.48	886.64	1 harvests
Applied to removed ratio	1.23	0.81	0.81	1.64	

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

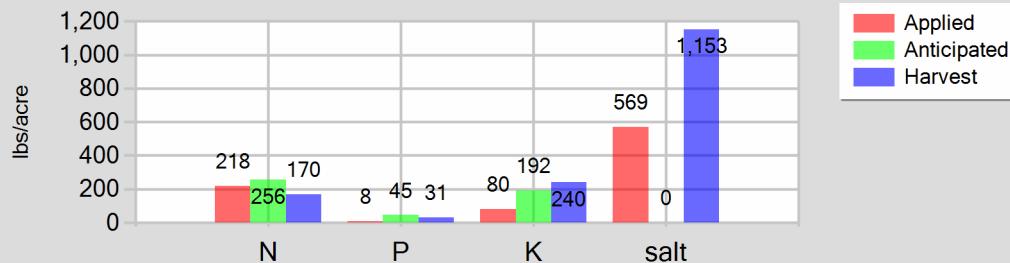
Field 3 - 11/01/2022: Wheat, silage, boot stage

Field name: Field 3

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	210.81	7.90	80.07	542.29
Fresh water	0.00	0.00	0.00	27.10
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	217.81	7.90	80.07	569.39
Anticipated crop nutrient removal	256.00	44.80	192.00	0.00
Actual crop nutrient removal	169.62	31.06	240.10	1,152.70
Nutrient balance	48.19	-23.16	-160.02	-583.31
Applied to removed ratio	1.28	0.25	0.33	0.49

Fresh water applied

12,720,000.00 gallons
468.43 acre-inches
9.97 inches/acre

Process wastewater applied

2,160,000.00 gallons
79.55 acre-inches
1.69 inches/acre

Total harvests for the crop

1 harvests

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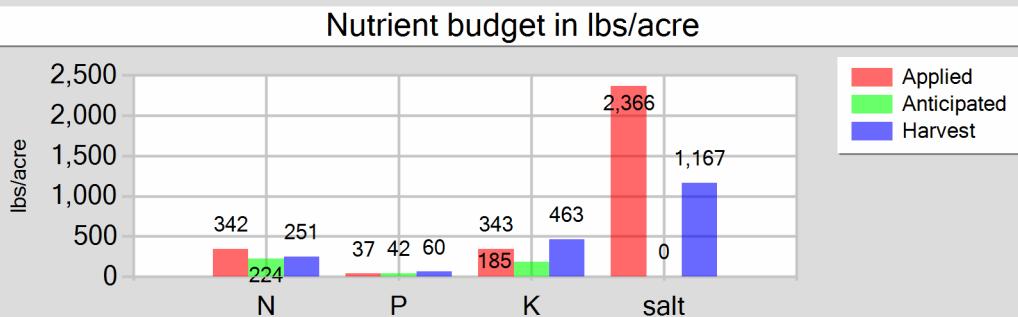
Reporting period 01/01/2023 to 12/31/2023.

Field 3 - 06/15/2023: Corn, silage

Field name: Field 3

Crop: Corn, silage

Plant date: 06/15/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	334.97	36.93	342.90	2,260.66
Fresh water	0.00	0.00	0.00	105.59
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	341.97	36.93	342.90	2,366.25
Anticipated crop nutrient removal	224.00	42.00	184.80	0.00
Actual crop nutrient removal	251.24	60.31	463.02	1,167.28
Nutrient balance	90.73	-23.38	-120.13	1,198.97
Applied to removed ratio	1.36	0.61	0.74	2.03

Fresh water applied

49,560,000.00 gallons
1,825.13 acre-inches
38.83 inches/acre

Process wastewater applied

3,780,000.00 gallons
139.20 acre-inches
2.96 inches/acre

Total harvests for the crop

1 harvests

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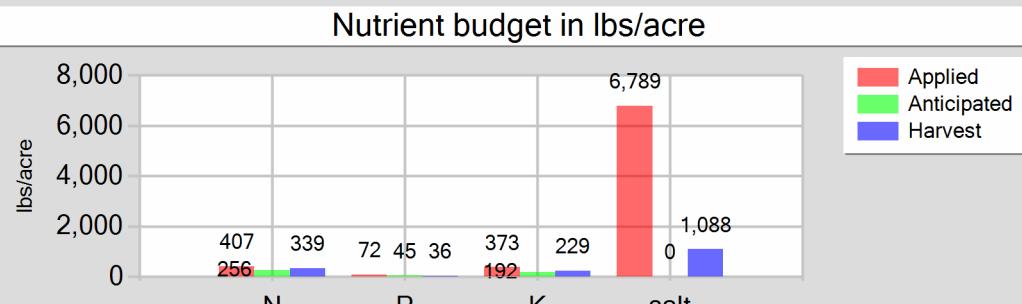
Reporting period 01/01/2023 to 12/31/2023.

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

Field name: Field 4

Crop: Wheat, silage, boot stage

Plant date: 11/01/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	103.03	60.71	259.94	6,005.26
Process wastewater	296.84	11.12	112.76	763.62
Fresh water	0.00	0.00	0.00	20.48
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	406.87	71.84	372.70	6,789.35
Anticipated crop nutrient removal	256.00	44.80	192.00	0.00
Actual crop nutrient removal	338.77	36.07	229.28	1,088.45
Nutrient balance	68.10	35.77	143.42	5,700.90
Applied to removed ratio	1.20	1.99	1.63	6.24

Fresh water applied
15,744,000.00 gallons
579.80 acre-inches
7.53 inches/acre

Process wastewater applied
4,983,000.00 gallons
183.51 acre-inches
2.38 inches/acre

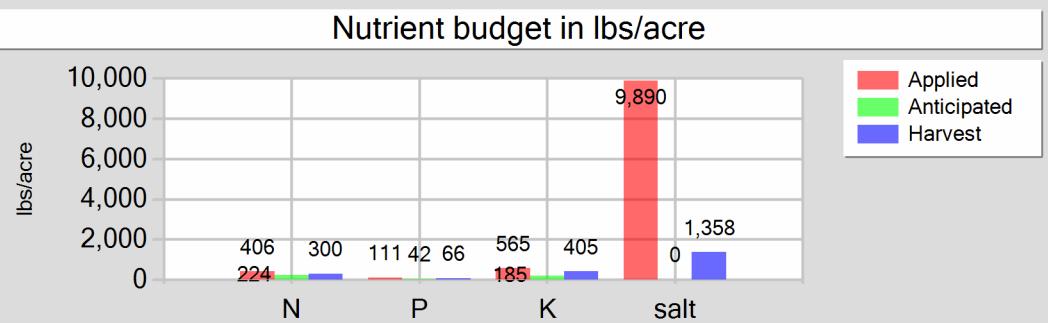
Total harvests for the crop
1 harvests

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

Field 4 - 06/15/2023: Corn, silage

Field name: Field 4 Crop: Corn, silage Plant date: 06/15/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	167.14	85.71	327.14	8,210.91
Process wastewater	232.21	25.60	237.70	1,567.15
Fresh water	0.00	0.00	0.00	111.79
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	406.35	111.31	564.85	9,889.86
Anticipated crop nutrient removal	224.00	42.00	184.80	0.00
Actual crop nutrient removal	300.06	65.60	405.48	1,357.98
Nutrient balance	106.30	45.71	159.37	8,531.89
Applied to removed ratio	1.35	1.70	1.39	7.28

Fresh water applied
85,960,000.00 gallons
3,165.61 acre-inches
41.11 inches/acre

Process wastewater applied
4,293,000.00 gallons
158.10 acre-inches
2.05 inches/acre

Total harvests for the crop
1 harvests

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

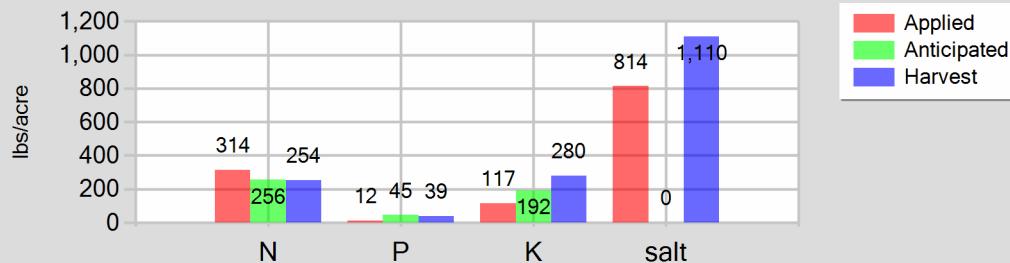
Field 5 - 11/01/2022: Wheat, silage, boot stage

Field name: Field 5

Crop: Wheat, silage, boot stage

Plant date: 11/01/2022

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	307.16	11.51	116.68	790.17
Fresh water	0.00	0.00	0.00	23.46
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	314.16	11.51	116.68	813.63
Anticipated crop nutrient removal	256.00	44.80	192.00	0.00
Actual crop nutrient removal	253.97	38.86	280.34	1,110.24
Nutrient balance	60.20	-27.35	-163.66	-296.61
Applied to removed ratio	1.24	0.30	0.42	0.73

Fresh water applied

6,560,000.00 gallons
241.58 acre-inches
8.63 inches/acre

Process wastewater applied

1,875,000.00 gallons
69.05 acre-inches
2.47 inches/acre

Total harvests for the crop

1 harvests

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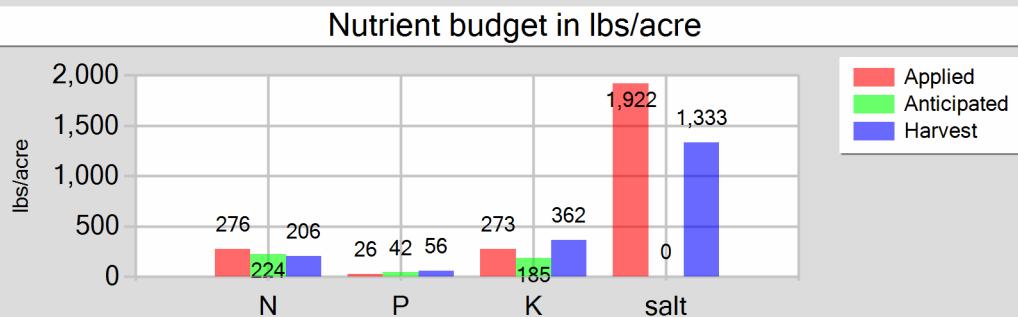
Reporting period 01/01/2023 to 12/31/2023.

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

Field name: Field 5

Crop: Corn, silage

Plant date: 06/15/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	268.72	26.33	272.91	1,821.22
Fresh water	0.00	0.00	0.00	100.71
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	275.72	26.33	272.91	1,921.94
Anticipated crop nutrient removal	224.00	42.00	184.80	0.00
Actual crop nutrient removal	205.97	55.89	362.01	1,332.67
Nutrient balance	69.76	-29.56	-89.10	589.27
Applied to removed ratio	1.34	0.47	0.75	1.44

Fresh water applied

28,160,000.00 gallons
1,037.04 acre-inches
37.04 inches/acre

Process wastewater applied

1,670,000.00 gallons
61.50 acre-inches
2.20 inches/acre

Total harvests for the crop

1 harvests

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

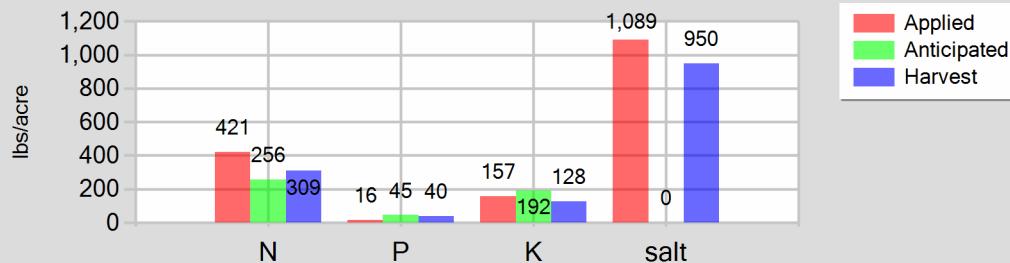
Field 6 - 11/01/2022: Wheat, silage, boot stage

Field name: Field 6

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	414.36	15.53	157.39	1,065.92
Fresh water	0.00	0.00	0.00	23.14
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	421.36	15.53	157.39	1,089.06
Anticipated crop nutrient removal	256.00	44.80	192.00	0.00
Actual crop nutrient removal	308.64	40.08	128.27	949.97
Nutrient balance	112.72	-24.55	29.13	139.10
Applied to removed ratio	1.37	0.39	1.23	1.15

Fresh water applied

4,160,000.00 gallons
153.20 acre-inches
8.51 inches/acre

Process wastewater applied

1,626,000.00 gallons
59.88 acre-inches
3.33 inches/acre

Total harvests for the crop

1 harvests

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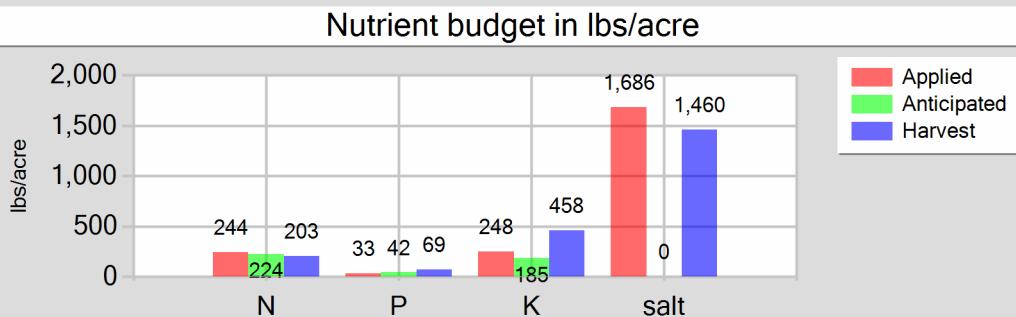
Reporting period 01/01/2023 to 12/31/2023.

Field 6 - 06/15/2023: Corn, silage

Field name: Field 6

Crop: Corn, silage

Plant date: 06/15/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	237.27	33.46	247.69	1,584.26
Fresh water	0.00	0.00	0.00	101.25
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	244.27	33.46	247.69	1,685.51
Anticipated crop nutrient removal	224.00	42.00	184.80	0.00
Actual crop nutrient removal	203.36	69.21	457.98	1,460.20
Nutrient balance	40.91	-35.75	-210.29	225.32
Applied to removed ratio	1.20	0.48	0.54	1.15

Fresh water applied

18,200,000.00 gallons
670.24 acre-inches
37.24 inches/acre

Process wastewater applied

1,220,000.00 gallons
44.93 acre-inches
2.50 inches/acre

Total harvests for the crop

1 harvests

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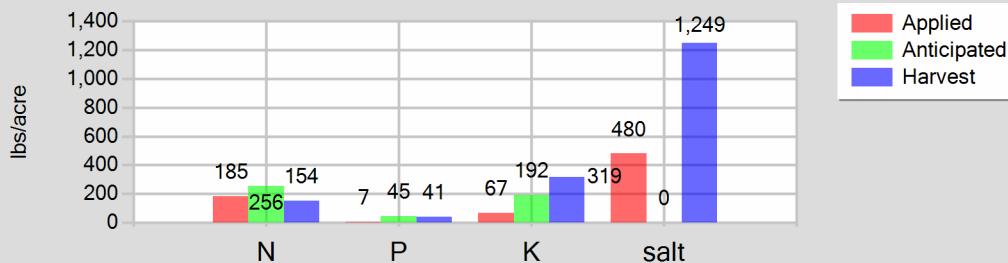
Field 7 - 11/01/2022: Wheat, silage, boot stage

Field name: Field 7

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	177.60	6.66	67.46	456.87
Fresh water	0.00	0.00	0.00	23.16
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	184.60	6.66	67.46	480.03
Anticipated crop nutrient removal	256.00	44.80	192.00	0.00
Actual crop nutrient removal	154.15	41.19	318.89	1,248.51
Nutrient balance	30.45	-34.53	-251.43	-768.48
Applied to removed ratio	1.20	0.16	0.21	0.38

Fresh water applied

7,400,000.00 gallons
272.52 acre-inches
8.52 inches/acre

Process wastewater applied

1,239,000.00 gallons
45.63 acre-inches
1.43 inches/acre

Total harvests for the crop

1 harvests

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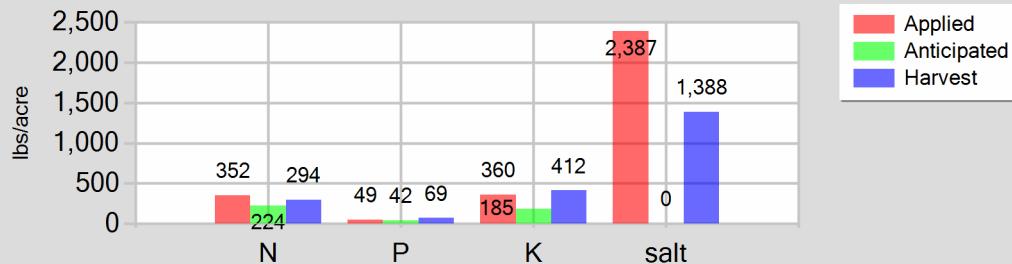
Field 7 - 06/15/2023: Corn, silage

Field name: Field 7

Crop: Corn, silage

Plant date: 06/15/2023

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	344.59	48.59	359.73	2,300.91
Fresh water	0.00	0.00	0.00	85.87
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	351.59	48.59	359.73	2,386.78
Anticipated crop nutrient removal	224.00	42.00	184.80	0.00
Actual crop nutrient removal	294.19	68.54	412.01	1,388.34
Nutrient balance	57.41	-19.95	-52.28	998.45
Applied to removed ratio	1.20	0.71	0.87	1.72

Fresh water applied

27,440,000.00 gallons
1,010.52 acre-inches
31.58 inches/acre

Process wastewater applied

3,150,000.00 gallons
116.00 acre-inches
3.63 inches/acre

Total harvests for the crop

1 harvests

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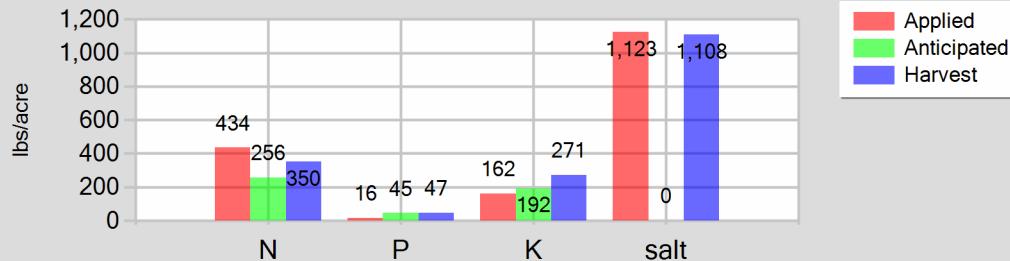
Field 8 - 11/01/2022: Wheat, silage, boot stage

Field name: Field 8

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	427.36	16.02	162.33	1,099.35
Fresh water	0.00	0.00	0.00	23.44
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	434.36	16.02	162.33	1,122.79
Anticipated crop nutrient removal	256.00	44.80	192.00	0.00
Actual crop nutrient removal	350.45	46.73	271.28	1,108.47
Nutrient balance	83.90	-30.71	-108.95	14.32
Applied to removed ratio	1.24	0.34	0.60	1.01

Fresh water applied

12,640,000.00 gallons
465.49 acre-inches
8.62 inches/acre

Process wastewater applied

5,031,000.00 gallons
185.27 acre-inches
3.43 inches/acre

Total harvests for the crop

1 harvests

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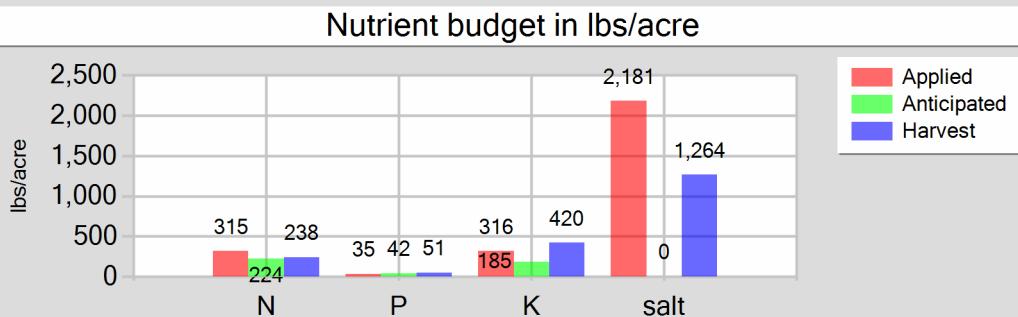
Reporting period 01/01/2023 to 12/31/2023.

Field 8 - 06/15/2023: Corn, silage

Field name: Field 8

Crop: Corn, silage

Plant date: 06/15/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	308.22	34.78	316.04	2,078.29
Fresh water	0.00	0.00	0.00	102.81
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	315.22	34.78	316.04	2,181.10
Anticipated crop nutrient removal	224.00	42.00	184.80	0.00
Actual crop nutrient removal	237.67	51.11	420.30	1,264.47
Nutrient balance	77.56	-16.34	-104.26	916.63
Applied to removed ratio	1.33	0.68	0.75	1.72

Fresh water applied

55,440,000.00 gallons
2,041.67 acre-inches
37.81 inches/acre

Process wastewater applied

4,060,000.00 gallons
149.52 acre-inches
2.77 inches/acre

Total harvests for the crop

1 harvests

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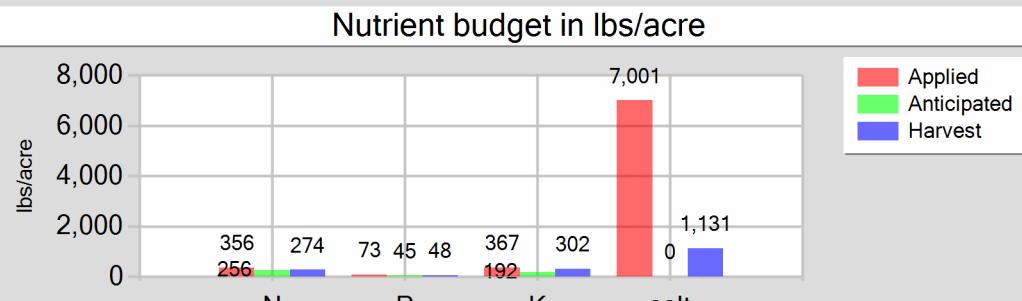
Reporting period 01/01/2023 to 12/31/2023.

Field 9 - 11/01/2022: Wheat, silage, boot stage

Field name: Field 9

Crop: Wheat, silage, boot stage

Plant date: 11/01/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	109.27	64.39	275.70	6,369.21
Process wastewater	239.77	8.99	91.08	616.81
Fresh water	0.00	0.00	0.00	15.02
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	356.05	73.38	366.77	7,001.04
Anticipated crop nutrient removal	256.00	44.80	192.00	0.00
Actual crop nutrient removal	273.68	47.66	302.27	1,131.47
Nutrient balance	82.37	25.72	64.50	5,869.57
Applied to removed ratio	1.30	1.54	1.21	6.19

Fresh water applied

9,900,000.00 gallons
364.58 acre-inches
5.52 inches/acre

Process wastewater applied

3,450,000.00 gallons
127.05 acre-inches
1.93 inches/acre

Total harvests for the crop

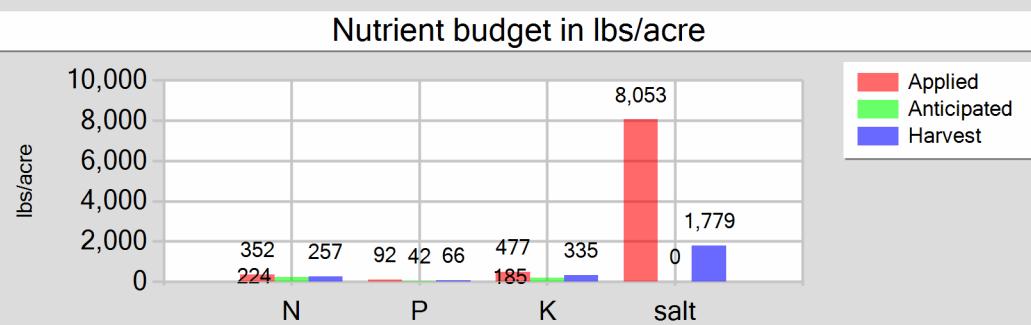
1 harvests

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

Field 9 - 06/15/2023: Corn, silage

Field name: Field 9 Crop: Corn, silage Plant date: 06/15/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	132.95	68.18	260.23	6,531.41
Process wastewater	212.04	23.37	217.05	1,430.99
Fresh water	0.00	0.00	0.00	90.49
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	351.99	91.56	477.28	8,052.89
Anticipated crop nutrient removal	224.00	42.00	184.80	0.00
Actual crop nutrient removal	256.66	65.60	334.69	1,778.63
Nutrient balance	95.33	25.96	142.59	6,274.26
Applied to removed ratio	1.37	1.40	1.43	4.53

Fresh water applied
59,640,000.00 gallons
2,196.34 acre-inches
33.28 inches/acre

Process wastewater applied
3,360,000.00 gallons
123.74 acre-inches
1.87 inches/acre

Total harvests for the crop
1 harvests

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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: 15.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	11,700.00	6,000.00	22,900.00	21,000.00	9,400.00	7,800.00	4,800.00	836.87		68.10
DL	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00		1.00

Dry Manure

Sample and source description: Dry Manure

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

Moisture: 38.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	7,212.00	4,250.00	18,196.00							68.80
DL	100.00	100.00	100.00							1.00

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

Sample and source description: 1st Qtr WW

Sample date: 02/03/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 7.68

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	549.67	64.18	0.00	0.00	20.60	208.79								2,210.00	1,414
DL	67.00	0.57	0.01	0.01	0.64	0.01								1.00	19

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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: 7.66

	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)
Value	419.49	146.57	0.00	0.00	59.15	437.92	6.90	8.50	14.70	38.34	0.00	4.50	7.30	4,377.00	2,801
DL	67.00	0.57	0.01	0.01	0.64	0.01	0.02	0.01	0.01	0.01	0.01	0.02	0.01	1.00	19

3rd Qtr WW

Sample and source description: 3rd Qtr WW

Sample date: 08/28/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 7.72

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	658.32	498.44	0.00	0.00	46.76	656.88								7,037.00	4,503
DL	67.00	0.57	0.01	0.01	0.64	0.01								1.00	19

4th Qtr WW

Sample and source description: 4th Qtr WW

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

	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)
Value	198.10	180.00	0.00	0.00	48.62	275.26								2,571.00	1,645
DL	67.00	0.57	0.01	0.01	0.64	0.01								1.00	19

C. FRESH WATER ANALYSES

Barn

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Barn**Barn**

Sample description: Barn

Sample date: 12/13/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	0.10										414.00	
DL	0.10										10.00	

Canal**Canal**

Sample description: Canal

Sample date: 08/13/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	0.00										20.00	
DL	0.10										10.00	

D. SOIL ANALYSES

No soil analyses entered.

E. PLANT TISSUE ANALYSES

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

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

1

Sample and source description: 1

Sample date: 05/11/2023 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	11,700.00	2,700.00	22,500.00		10.37
DL	100.00	100.00	100.00		1.00

Field 1 - 06/15/2023: Corn, silage

1

Sample and source description: 1

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

Moisture: 76.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	19,102.00	3,560.00	32,800.00		8.90
DL	100.00	100.00	100.00		1.00

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

2N

Sample and source description: 2N

Sample date: 05/11/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 64.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	13,800.00	3,200.00	27,900.00		13.36
DL	100.00	100.00	100.00		1.00

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Field 2N - 06/15/2023: Corn, silage

2N

Sample and source description: 2N

Sample date: 09/26/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 63.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	15,595.00	3,060.00	19,600.00		6.20
DL	100.00	100.00	100.00		1.00

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

2S

Sample and source description: 2S

Sample date: 05/11/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 68.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	15,200.00	3,100.00	24,900.00		11.48
DL	100.00	100.00	100.00		1.00

Field 2S - 06/15/2023: Corn, silage

2S

Sample and source description: 2S

Sample date: 09/26/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 68.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	14,510.00	2,130.00	21,900.00		7.51
DL	100.00	100.00	100.00		1.00

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

3

Sample and source description: 3

Sample date: 05/11/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 64.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	14,200.00	2,600.00	20,100.00		9.65
DL	100.00	100.00	100.00		1.00

Field 3 - 06/15/2023: Corn, silage

3

Sample and source description: 3

Sample date: 09/26/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 65.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	12,914.00	3,100.00	23,800.00		6.00
DL	100.00	100.00	100.00		1.00

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

4

Sample and source description: 4

Sample date: 05/11/2023 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 (%)
Value	26,300.00	2,800.00	17,800.00		8.45
DL	100.00	100.00	100.00		1.00

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Field 4 - 06/15/2023: Corn, silage

4

Sample and source description: 4

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

Moisture: 66.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	15,688.00	3,430.00	21,200.00		7.10
DL	100.00	100.00	100.00		1.00

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

5

Sample and source description: 5

Sample date: 05/11/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 60.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	18,300.00	2,800.00	20,200.00		8.00
DL	100.00	100.00	100.00		1.00

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

5

Sample and source description: 5

Sample date: 09/26/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 65.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	10,355.00	2,810.00	18,200.00		6.70
DL	100.00	100.00	100.00		1.00

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

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

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

6

Sample and source description: 6

Sample date: 05/11/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 60.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	23,100.00	3,000.00	9,600.00		7.11
DL	100.00	100.00	100.00		1.00

Field 6 - 06/15/2023: Corn, silage

6

Sample and source description: 6

Sample date: 09/26/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 64.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	9,902.00	3,370.00	22,300.00		7.11
DL	100.00	100.00	100.00		1.00

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

7

Sample and source description: 7

Sample date: 05/11/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 64.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	13,100.00	3,500.00	27,100.00		10.61
DL	100.00	100.00	100.00		1.00

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

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

Field 7 - 06/15/2023: Corn, silage

7

Sample and source description: 7

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

Moisture: 65.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	15,066.00	3,510.00	21,100.00		7.11
DL	100.00	100.00	100.00		1.00

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

8

Sample and source description: 8

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

Moisture: 60.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	27,000.00	3,600.00	20,900.00		8.54
DL	100.00	100.00	100.00		1.00

Field 8 - 06/15/2023: Corn, silage

8

Sample and source description: 8

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

Moisture: 69.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	13,345.00	2,870.00	23,600.00		7.10
DL	100.00	100.00	100.00		1.00

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

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

Field 9 - 11/01/2022: Wheat, silage, boot stage

9

Sample and source description: 9

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

Moisture: 60.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	20,100.00	3,500.00	22,200.00		8.31
DL	100.00	100.00	100.00		1.00

Field 9 - 06/15/2023: Corn, silage

9

Sample and source description: 9

Sample date: 10/23/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 66.6 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	13,420.00	3,430.00	17,500.00		9.30
DL	100.00	100.00	100.00		1.00

F. SUBSURFACE (TILE) DRAINAGE ANALYSES

No subsurface (tile) drainage analyses entered.

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

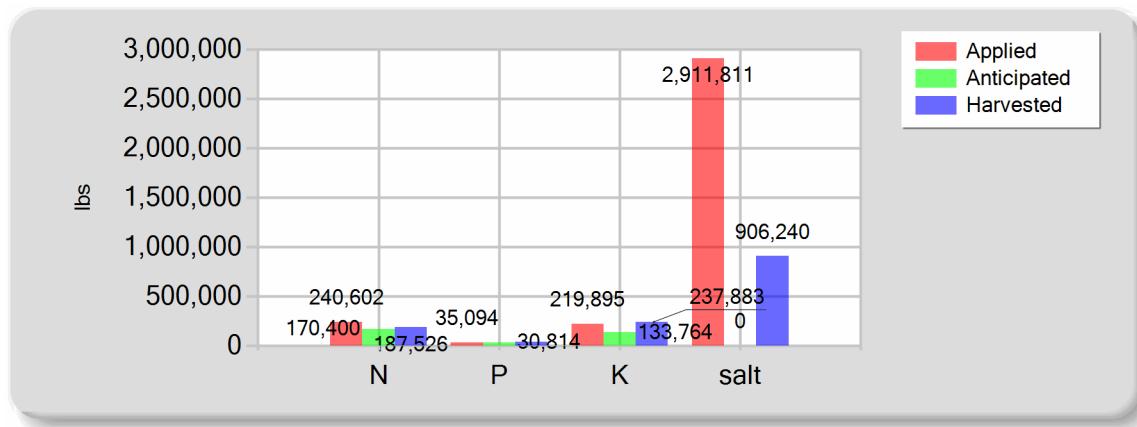
Reporting period 01/01/2023 to 12/31/2023.

NUTRIENT APPLICATIONS, POTENTIAL REMOVAL, AND BALANCE

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

	Total N (lbs)	Total P (lbs)	Total K (lbs)	Total salt (lbs)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	36,790.20	20,025.00	80,576.60	1,946,086.20
Process wastewater	198,842.29	15,068.88	139,318.81	922,401.95
Fresh water	0.00	0.00	0.00	43,322.97
Atmospheric deposition	4,970.00	0.00	0.00	0.00
Total nutrients applied	240,602.49	35,093.88	219,895.41	2,911,811.12
Anticipated crop nutrient removal	170,400.00	30,814.00	133,764.00	0.00
Actual crop nutrient removal	187,526.41	36,063.94	237,883.14	906,239.84
Nutrient balance	53,076.07	-970.06	-17,987.73	2,005,571.28
Applied to removed ratio	1.28	0.97	0.92	3.21

B. POUNDS OF NUTRIENT APPLIED VS. CROP REMOVAL

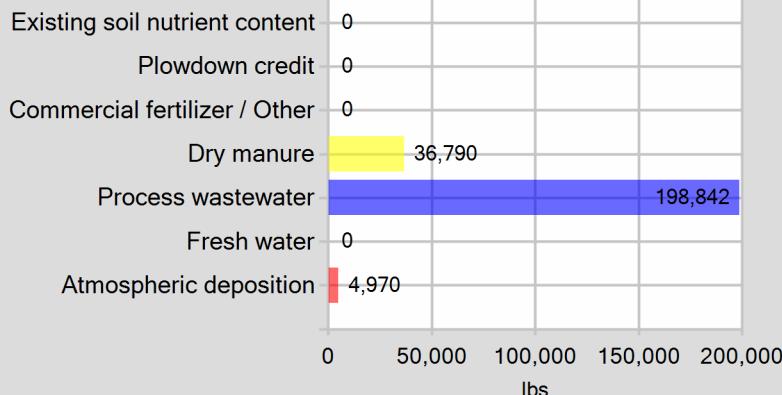


Annual Report - General Order No. R5-2007-0035

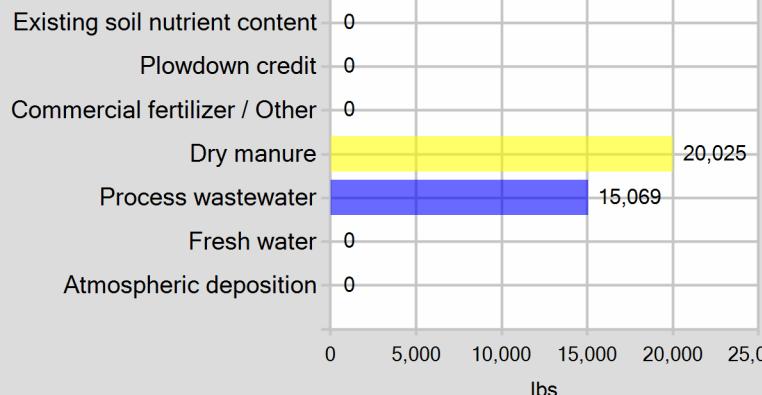
Reporting period 01/01/2023 to 12/31/2023.

C. POUNDS OF NUTRIENT APPLIED BY MATERIAL TYPE

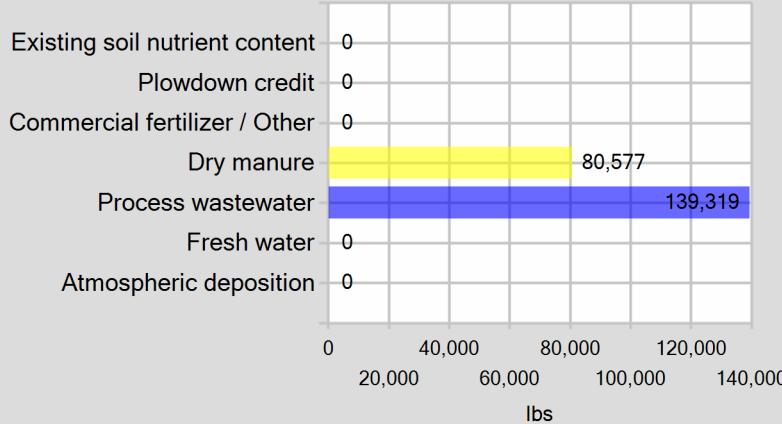
Pounds of nitrogen applied



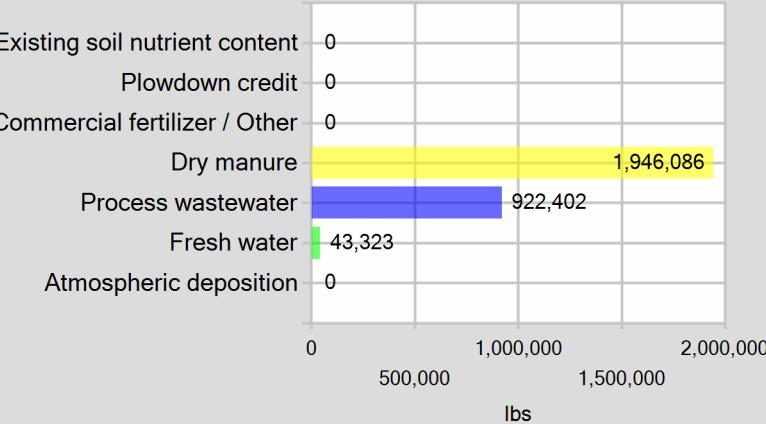
Pounds of phosphorus applied



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

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

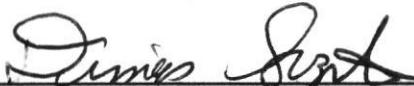
Annual Report - General Order No. R5-2007-0035

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

CERTIFICATION

A. OWNER AND/OR OPERATOR CERTIFICATION

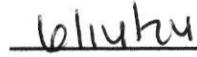
I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate,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



SIGNATURE OF OWNER OF FACILITY

Sozinho Family Trust

PRINT OR TYPE NAME



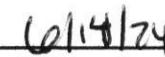
DATE



SIGNATURE OF OPERATOR OF FACILITY

Danny Sozinho

PRINT OR TYPE NAME



DATE

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

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

ATTACHMENTS

A. REQUIRED ATTACHMENTS

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

Annual Dairy Facility Assessment

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

Manure/Process Wastewater Tracking Manifests

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

Corrective Actions Documents

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

Groundwater Monitoring

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

Storm Water Monitoring

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

Manure / Process Wastewater Tracking Manifest

For

Existing Milk Cow Dairies

General Order No. R5-2007-0035, Attachment D

INSTRUCTIONS

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

OPERATOR INFORMATION

Name of Operator: Demas Sozinho

Name of Dairy Facility: SOZINHO DAIRY #1

Facility Address:

<u>11447 8 1/2 AVE</u>	<u>Hanford</u>	<u>Kings</u>	<u>93230</u>
Number and Street	City	County	Zip Code

Contact Person Name and Phone Number:	<u>Demas Sozinho</u>	<u>(559) 816-2967</u>
	Name	Phone Number

MANURE HAULER INFORMATION

Name of Hauling Company/Person: Larry Soares

Address of Hauling Company/Person:

<u>15288 18th AVE</u>	<u>Hanford</u>	<u>CA</u>	<u>93230</u>
Number and Street	City	State	Zip Code

Contact Person:	<u>Larry Soares</u>	<u>(559) 362-6822</u>
	Name	Phone Number

DESTINATION INFORMATION

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

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

<u>Larry Soares</u>	<u>(559) 362-6822</u>
Name	Phone Number

<u>15288 15th</u>	<u>Hanford</u>	<u>CA</u>	<u>93230</u>
Address	City	State	Zip Code

Destination Address or Assessor's Parcel Number:

<u>Address</u>	<u>Hanford</u>	<u>93230</u>
	City	Zip Code

<u>15th AVE</u>	<u>Kings</u>
Street and nearest cross street (if no address)	County

Assessor's Parcel Number Assessor's Parcel Number County

Last date hauled: 10/15/2023

Manure / Process Wastewater Tracking Manifest

**For
Existing Milk Cow Dairies**

General Order No. R5-2007-0035, Attachment D

MANURE AMOUNT HAULED

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

Manure: 1,000.00 tons

Manure Solids Content: 61.1 %

Method used to determine amount of manure:

Weighted Average

CERTIFICATION

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


Dennis Doyle
Operator Signature

0114124

Operator Signature

Date

blyk
Hauler Signature

Date
6/7/24

Hauler Signature

Manure / Process Wastewater Tracking Manifest

For

Existing Milk Cow Dairies

General Order No. R5-2007-0035, Attachment D

INSTRUCTIONS

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

OPERATOR INFORMATIONName of Operator: Demas SozinhoName of Dairy Facility: SOZINHO DAIRY #1

Facility Address:

11447 8 1/2 AVE Number and Street	Hanford City	Kings County	93230 Zip Code
--------------------------------------	-----------------	-----------------	-------------------

Contact Person Name and Phone Number:	<u>Demas Sozinho</u> Name	(559) 816-2967 Phone Number
---------------------------------------	------------------------------	--------------------------------

MANURE HAULER INFORMATIONName of Hauling Company/Person: Danell Bros

Address of Hauling Company/Person:

8265 Hanford Armona RD Number and Street	Hanford City	CA State	93230 Zip Code
---	-----------------	-------------	-------------------

Contact Person:	<u>Bros Danell</u> Name	(559) 582-1251 Phone Number
-----------------	----------------------------	--------------------------------

DESTINATION INFORMATIONComposting Facility / Broker / Farmer / Other (identify): Broker

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

Danell Bros Name	(559) 582-1251 Phone Number
---------------------	--------------------------------

8265 Hanford Armona Address	Hanford City	CA State	93230 Zip Code
--------------------------------	-----------------	-------------	-------------------

Destination Address or Assessor's Parcel Number:

Address	Hanford City	93230 Zip Code
---------	-----------------	-------------------

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

Assessor's Parcel Number Assessor's Parcel Number County Last date hauled: 06/05/2023

**Manure / Process Wastewater Tracking Manifest
For
Existing Milk Cow Dairies**

General Order No. R5-2007-0035, Attachment D

MANURE AMOUNT HAULED

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

Manure: 2,000.00 tons

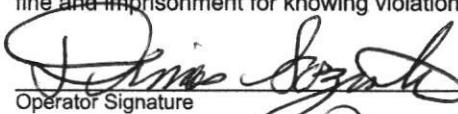
Manure Solids Content: 84.4 %

Method used to determine amount of manure:

Weighted Average

CERTIFICATION

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



Operator Signature

10/14/24

Date



Hauler Signature

10/14/24

Date



Sozinho 1 & 3
8489 E. Elkhorn Ave
Selma, CA 93662

Account# 00-0025832
Account Manager: Ben Nydam
Submitted By: Christina Medeiros

Received: 12/13/2023 7:00
Reported: 12/20/2023 12:04

Samples in this Report

Lab ID	Sample	Matrix	Sampled By	Crop	Date Sampled
23L0687-01	D1	Ag Water	Medeiros		12/12/2023 11:20
23L0687-02	D2	Ag Water	Medeiros		12/12/2023 10:45
23L0687-03	D3	Ag Water	Medeiros		12/12/2023 10:50
23L0687-04	D4	Ag Water	Medeiros		12/12/2023 11:00
23L0687-05	D5-Barn	Ag Water	Medeiros		12/12/2023 11:10

Default Cooler Temperature on Receipt °C: 10.6
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

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



Sozinho 1 & 3
8489 E. Elkhorn Ave
Selma, CA 93662

Account# 00-0025832
Account Manager: Ben Nydam
Submitted By: Christina Medeiros

Received: 12/13/2023 7:00
Reported: 12/20/2023 12:04

Sample Results

Sample: D1
23L0687-01 (Water)

Sampled: 12/12/2023 11:20
Sampled By: Medeiros

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	0.41	mmhos/cm	0.01	1		12/13/23 16:35	SM 2510 B		BEL0496
Electrical Conductivity umhos	414	umhos/cm	10.0	1		12/13/23 16:35	SM 2510 B		BEL0496
Ammonia (as N)	ND	mg/L	0.00	1		12/12/23 11:20	Field		BEL0522
Nitrate Nitrogen as NO3N	0.1	mg/L	0.1	1	10	12/14/23 08:33	EPA 300.0		BEL0447
Temperature	25.0	units	0.0	1		12/13/23 16:35	SM 4500-H+	H	BEL0496
pH	8.2	units	1.0	1		12/13/23 16:35	SM 4500-H+	H	BEL0496

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Sozinho 1 & 3
8489 E. Elkhorn Ave
Selma, CA 93662

Account# 00-0025832
Account Manager: Ben Nydam
Submitted By: Christina Medeiros

Received: 12/13/2023 7:00
Reported: 12/20/2023 12:04

Sample: D2
23L0687-02 (Water)

Sampled: 12/12/2023 10:45

Sampled By: Medeiros

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	0.41	mmhos/cm	0.01	1		12/13/23 16:36	SM 2510 B		BEL0496
Electrical Conductivity umhos	411	umhos/cm	10.0	1		12/13/23 16:36	SM 2510 B		BEL0496
Ammonia (as N)	ND	mg/L	0.00	1		12/12/23 10:45	Field		BEL0522
Nitrate Nitrogen as NO3N	0.1	mg/L	0.1	1	10	12/14/23 08:54	EPA 300.0		BEL0447
Temperature	25.0	units	0.0	1		12/13/23 16:36	SM 4500-H+	H	BEL0496
pH	8.3	units	1.0	1		12/13/23 16:36	SM 4500-H+	H	BEL0496

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Sozinho 1 & 3
8489 E. Elkhorn Ave
Selma, CA 93662

Account# 00-0025832
Account Manager: Ben Nydam
Submitted By: Christina Medeiros

Received: 12/13/2023 7:00
Reported: 12/20/2023 12:04

Sample: D3
23L0687-03 (Water)

Sampled: 12/12/2023 10:50

Sampled By: Medeiros

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	0.41	mmhos/cm	0.01	1		12/13/23 16:38	SM 2510 B		BEL0496
Electrical Conductivity umhos	411	umhos/cm	10.0	1		12/13/23 16:38	SM 2510 B		BEL0496
Ammonia (as N)	ND	mg/L	0.00	1		12/12/23 10:50	Field		BEL0522
Nitrate Nitrogen as NO3N	0.1	mg/L	0.1	1	10	12/14/23 09:14	EPA 300.0		BEL0447
Temperature	25.0	units	0.0	1		12/13/23 16:38	SM 4500-H+	H	BEL0496
pH	8.2	units	1.0	1		12/13/23 16:38	SM 4500-H+	H	BEL0496

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Sozinho 1 & 3
8489 E. Elkhorn Ave
Selma, CA 93662

Account# 00-0025832
Account Manager: Ben Nydam
Submitted By: Christina Medeiros

Received: 12/13/2023 7:00
Reported: 12/20/2023 12:04

Sample: D4
23L0687-04 (Water)

Sampled: 12/12/2023 11:00

Sampled By: Medeiros

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	0.42	mmhos/cm	0.01	1		12/13/23 16:39	SM 2510 B		BEL0496
Electrical Conductivity umhos	425	umhos/cm	10.0	1		12/13/23 16:39	SM 2510 B		BEL0496
Ammonia (as N)	ND	mg/L	0.00	1		12/12/23 11:00	Field		BEL0522
Nitrate Nitrogen as NO3N	0.1	mg/L	0.1	1	10	12/14/23 09:35	EPA 300.0		BEL0447
Temperature	25.0	units	0.0	1		12/13/23 16:39	SM 4500-H+	H	BEL0496
pH	8.2	units	1.0	1		12/13/23 16:39	SM 4500-H+	H	BEL0496

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Sozinho 1 & 3
8489 E. Elkhorn Ave
Selma, CA 93662

Account# 00-0025832
Account Manager: Ben Nydam
Submitted By: Christina Medeiros

Received: 12/13/2023 7:00
Reported: 12/20/2023 12:04

Sample: D5-Barn
23L0687-05 (Water)

Sampled: 12/12/2023 11:10

Sampled By: Medeiros

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	0.42	mmhos/cm	0.01	1		12/13/23 16:55	SM 2510 B		BEL0497
Electrical Conductivity umhos	416	umhos/cm	10.0	1		12/13/23 16:55	SM 2510 B		BEL0497
Ammonia (as N)	ND	mg/L	0.00	1		12/12/23 11:10	Field		BEL0522
Nitrate Nitrogen as NO3N	0.1	mg/L	0.1	1	10	12/14/23 09:56	EPA 300.0		BEL0447
Temperature	25.0	units	0.0	1		12/13/23 16:55	SM 4500-H+	H	BEL0497
pH	8.1	units	1.0	1		12/13/23 16:55	SM 4500-H+	H	BEL0497

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Sozinho 1 & 3
8489 E. Elkhorn Ave
Selma, CA 93662

Account# 00-0025832
Account Manager: Ben Nydam
Submitted By: Christina Medeiros

Received: 12/13/2023 7:00
Reported: 12/20/2023 12:04

Quality Control

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
Batch: BEL0447									
Blank (BEL0447-BLK1)									
Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared & Analyzed: 12/13/2023				
Blank (BEL0447-BLK2)									
Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared & Analyzed: 12/13/2023				
Blank (BEL0447-BLK3)									
Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared: 12/13/2023 Analyzed: 12/14/2023				
Blank (BEL0447-BLK4)									
Nitrate Nitrogen as NO3N	ND	0.1	mg/L		Prepared: 12/13/2023 Analyzed: 12/14/2023				
LCS (BEL0447-BS1)									
Nitrate Nitrogen as NO3N	4.9	0.1	mg/L	5.000	Prepared & Analyzed: 12/13/2023	98.1	90-110		
LCS (BEL0447-BS2)									
Nitrate Nitrogen as NO3N	4.9	0.1	mg/L	5.000	Prepared: 12/13/2023 Analyzed: 12/14/2023	98.5	90-110		
LCS (BEL0447-BS3)									
Nitrate Nitrogen as NO3N	0.07	0.1	mg/L	5.000	Prepared: 12/13/2023 Analyzed: 12/14/2023	1.44	90-110		
Duplicate (BEL0447-DUP1)									
Nitrate Nitrogen as NO3N	0.04	0.1	mg/L	0.04	Prepared: 12/13/2023 Analyzed: 12/14/2023			5.26	10
Duplicate (BEL0447-DUP2)									
Nitrate Nitrogen as NO3N	1.8	0.1	mg/L	1.8	Prepared: 12/13/2023 Analyzed: 12/14/2023			0.112	10
Duplicate (BEL0447-DUP3)									
Nitrate Nitrogen as NO3N	0.04	0.1	mg/L	0.04	Prepared: 12/13/2023 Analyzed: 12/14/2023			2.74	10
Matrix Spike (BEL0447-MS1)									
Nitrate Nitrogen as NO3N	4.8	0.1	mg/L	5.000	Prepared & Analyzed: 12/13/2023	96.0	90-110		
Matrix Spike (BEL0447-MS2)									
Nitrate Nitrogen as NO3N	6.7	0.1	mg/L	5.000	Prepared: 12/13/2023 Analyzed: 12/14/2023	1.8	98.2	90-110	
Matrix Spike (BEL0447-MS3)									
Nitrate Nitrogen as NO3N	4.9	0.1	mg/L	5.000	Prepared: 12/13/2023 Analyzed: 12/14/2023	0.04	98.0	90-110	
Reference (BEL0447-SRM1)									
Nitrate Nitrogen as NO3N	10.0		mg/L	10.00	Prepared & Analyzed: 12/13/2023	99.7	90-110		
Reference (BEL0447-SRM2)									
Nitrate Nitrogen as NO3N	9.8		mg/L	10.00	Prepared: 12/13/2023 Analyzed: 12/14/2023	98.5	90-110		

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Received: 12/13/2023 7:00
Reported: 12/20/2023 12:04

Quality Control
(Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
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Batch: BEL0447 (Continued)

Reference (BEL0447-SRM3)	9.8	mg/L	10.00	98.2	90-110	Prepared: 12/13/2023 Analyzed: 12/14/2023
Reference (BEL0447-SRM4)	9.6	mg/L	10.00	95.5	90-110	Prepared: 12/13/2023 Analyzed: 12/14/2023

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Received: 12/13/2023 7:00
Reported: 12/20/2023 12:04

Quality Control
(Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
Batch: BEL0496									
Blank (BEL0496-BLK1)									
Temperature 25.0 0.0 units Prepared & Analyzed: 12/13/2023									
Electrical Conductivity ND 0.01 mmhos/cm									
Electrical Conductivity umhos ND 10.0 umhos/cm									
pH 5.7 1.0 units									
Blank (BEL0496-BLK2)									
Temperature 25.0 0.0 units Prepared & Analyzed: 12/13/2023									
Electrical Conductivity ND 0.01 mmhos/cm									
Electrical Conductivity umhos ND 10.0 umhos/cm									
pH 7.7 1.0 units									
Blank (BEL0496-BLK3)									
Electrical Conductivity ND 0.01 mmhos/cm Prepared & Analyzed: 12/13/2023									
Temperature 25.0 0.0 units									
Electrical Conductivity umhos ND 10.0 umhos/cm									
pH 7.7 1.0 units									
Duplicate (BEL0496-DUP1)									
Source: 23L0678-01 Prepared & Analyzed: 12/13/2023									
Electrical Conductivity 0.26 0.01 mmhos/cm 0.26 0.960 10									
pH 9.4 1.0 units 9.4 0.00 10									
Electrical Conductivity umhos 262 10.0 umhos/cm 259 0.960 10									
Duplicate (BEL0496-DUP2)									
Source: 23L0687-04 Prepared & Analyzed: 12/13/2023									
Electrical Conductivity 0.43 0.01 mmhos/cm 0.42 0.587 10									
Electrical Conductivity umhos 427 10.0 umhos/cm 425 0.587 10									
pH 8.2 1.0 units 8.2 0.00 10									
Reference (BEL0496-SRM1)									
Electrical Conductivity 444 umhos/cm 426.0 104 90-110									
Reference (BEL0496-SRM2)									
pH 7.5 units 7.520 100 67021-101.3									
Reference (BEL0496-SRM3)									
Electrical Conductivity 1070 umhos/cm 1000 107 90-110									
Electrical Conductivity umhos 1070 umhos/cm 1000 107 90-110									
Reference (BEL0496-SRM4)									
Prepared & Analyzed: 12/13/2023									
Electrical Conductivity 1080 umhos/cm 1000 108 90-110									
Electrical Conductivity umhos 1080 umhos/cm 1000 108 90-110									
Reference (BEL0496-SRM5)									
Prepared & Analyzed: 12/13/2023									
Electrical Conductivity 1090 umhos/cm 1000 109 90-110									

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Selma, CA 93662

Account# 00-0025832
Account Manager: Ben Nydam
Submitted By: Christina Medeiros

Received: 12/13/2023 7:00
Reported: 12/20/2023 12:04

Quality Control
(Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
Batch: BEL0496 (Continued)									
Reference (BEL0496-SRM5)									
Electrical Conductivity umhos	1090		umhos/cm	1000	109	90-110			
Reference (BEL0496-SRM6)									
pH	4.0		units	4.000	100	97.5-102.5			
Reference (BEL0496-SRM7)									
pH	4.0		units	4.000	101	97.5-102.5			
Reference (BEL0496-SRM8)									
pH	4.0		units	4.000	100	97.5-102.5			

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Received: 12/13/2023 7:00
Reported: 12/20/2023 12:04

Quality Control
(Continued)

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

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Sozinho 1 & 3
8489 E. Elkhorn Ave
Selma, CA 93662

Account# 00-0025832
Account Manager: Ben Nydam
Submitted By: Christina Medeiros

Received: 12/13/2023 7:00
Reported: 12/20/2023 12:04

Quality Control
(Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit
Batch: BEL0497 (Continued)									
Reference (BEL0497-SRM5)									
Electrical Conductivity umhos	1070		umhos/cm	1000	107	Prepared & Analyzed: 12/13/2023	90-110		
Reference (BEL0497-SRM6)									
pH	4.0		units	4.000	100	Prepared & Analyzed: 12/13/2023	97.5-102.5		
Reference (BEL0497-SRM7)									
pH	4.0		units	4.000	101	Prepared & Analyzed: 12/13/2023	97.5-102.5		
Reference (BEL0497-SRM8)									
pH	4.0		units	4.000	100	Prepared & Analyzed: 12/13/2023	97.5-102.5		

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12/13/23 07:00

23L0687

WATER WORK REQUEST

Bill To: 25832 Acct No. 8

Purchase Order No. _____ Results Needed By _____

Client **Sozinho 1 & 3**
 Address **8489 E. Elkhorn Ave**
 City, State, Zip **Selma CA 93662**
 Email **sozinhodairies@gmail.com**

Copy to: **mel_tinamedeiros@yahoo.com**Requested by/Cell: **Christina Medeiros/ 559-903-2490**

Facility: _____

Date sampled: _____

Sampled by **Medeiros**

QA/QC Document Copy of Chain RWQCB

DESCRIPTION OF SAMPLES

- | | | |
|-----|-------------------|---------------------|
| 1. | D1 | Sampled From: _____ |
| 2. | D2 | Sampled From: _____ |
| 3. | D3 | Sampled From: _____ |
| 4. | D4 | Sampled From: _____ |
| 5. | D5-Barn #3 | 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	<i>Cyr</i>	OU		
Second	<i>U. Gemi</i>	OU	12/12/23 11:30AM	12/12/23 11:32AM
Third				
Fourth	<i>AP</i>	OU	12/13 07:00	

I guarantee that as the client, or on behalf of the client named, I have the authority to contract the above requested services. Should it be found that I do not have such authority, I agree to be personally liable for all costs and, if there should be action against me for this breach, reasonable attorneys' fees. It is understood that payment is expected to be cash with samples unless terms have been previously arranged. Terms are net 30 days; overdue accounts will be charged a default damage fee of 2% per month (annually 24%) or \$5.00 per month whichever is greater. If payment is not made when due and a legitimate dispute exists concerning the product or services of DellaValle Laboratory, Inc., it will be submitted to mediation under the Rules and Procedures of Creative Alternative to Litigation, Inc. (cal). If the dispute is not resolved in mediation, then the dispute will be submitted to binding arbitration through cal under its Rules and Procedures. The parties will equally bear the costs of mediation/arbitration. If, however, the mediator declares that no legitimate dispute exists, then debtor will pay all mediation and arbitration costs, and in the event of arbitration, reasonable attorneys' fees of DellaValle Laboratory.

Invoicing Information:**Medeiros Pricing 2023**

			<i>Shipping</i>	
Sampling Hrs	Miles	Consulting	\$	In
_____	_____	_____	_____	Out

Amt Paid _____ Rec By _____ Check No. _____ Date _____

Signature _____

Sample received in cooler with ice?

[] Yes [] No

cttupdate 2020



12/13/23 07:00

23L0687

Shipping Information: 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					
Container: Ice Chest <input type="checkbox"/> Box <input type="checkbox"/> None <input type="checkbox"/>					Refrigerant: Wet Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> None <input type="checkbox"/>					
Samples Preserved with HNO₃ or H₂SO₄ were: <input type="checkbox"/> Received Preserved <input type="checkbox"/> Preserved Upon Receipt at Laboratory										
Type of Container(s) Received	Sample Number									
	1	2	3	4	5	6	7	8	9	10
Sample Containers for Internal (DLI) Use <i>(Containers that go into the Lab)</i>										
Plastics	100 mL sterile plastic Na ₂ S ₂ O ₃ (Green)									
	250 mL unpreserved (White) Plastic									
	250 mL HNO ₃ (Red) Plastic									
	* pH Value									
	250 mL H ₂ SO ₄ (Yellow) Plastic									
	* pH Value									
	500 mL unpreserved (White) Plastic	1	1	1	1	1				
	1 L unpreserved (White) Plastic									
1 L unpreserved (BOD) (Purple) Plastic										
Special	500mL unpreserved (White) Glass									
	PO4-P Kit									
	Other:									
Sample Containers for Subcontracted ("Send Out") Analyses <i>(Containers that go in the Subcontract ("Send Out") Refrigerator)</i>										
Plastics	100 mL sterile plastic Na ₂ S ₂ O ₃ (Green)									
	250 mL unpreserved (White) Plastic									
	250 mL HNO ₃ (Red) Plastic									
	250 mL H ₂ SO ₄ (Yellow) Plastic									
	500 mL HNO ₃ (Red)									
	1 L unpreserved (White) Plastic									
	1 L unpreserved (BOD) (Purple) Plastic									
	1 L HNO ₃ (Red)									
VOA Vials	40 mL VOA, Na ₂ S ₂ O ₃ + MCAA (EPA531)									
	40 mL VOA, Na ₂ S ₂ O ₃ (EPA547)									
	40mL AG VOA unpreserved (White) (Set of 3)									
	40 mL AG VOA, Na ₂ S ₂ O ₃ (Green) (Set of 3)									
	40mL VOA, H ₃ PO ₄ (Set of 3)									
	40 mL VOA, HCl (Blue) (Set of 3)									
	40 mL VOA, Na ₂ S ₂ O ₃ (Green) (Set of 3)									
Glass	250 mL AG unpreserved (White)									
	250 mL AG H ₂ SO ₄ (Yellow)									
	250 mL AG Na ₂ S ₂ O ₃ (Green)									
	250 mL AG Na ₂ S ₂ O ₃ + MCAA									
	500 mL glass unpreserved (White)									
	500 mL AG HCl (Blue)									
	1 L AG unpreserved (White)									
	1 L AG H ₂ SO ₄ (Yellow)									
	1 L AG Na ₂ S ₂ O ₃ (Green)									
	1 L AG HCl (Blue)									
Special	Cr ⁶⁺ - 50mL Plastic w/Borate/HCO ₃ /CO ₃									
	Cyanide - 500 mL NaOH									
	Asbestos - 1L P wrapped in foil (Set of 2)									
	Sulfide - 1 L AG or P NaOH + ZnAc									
	Chlorite/Bromate - 250 mL AG with EDA									
	HAA5 - 250mL AG Ammonium Chlorite									
	DO KIT									
	Other:									
Other:										



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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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

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
Electrical Conductivity	0.02	mmhos/cm	0.01	1		08/18/23 17:57	SM 2510 B		BEH0919
Nitrate Nitrogen as NO ₃ N	ND	mg/L	0.1	1	10	08/18/23 13:30	EPA 300.0		BEH0887

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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

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

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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
Batch: BEH0919									
Blank (BEH0919-BLK1)									
Electrical Conductivity	ND		0.01	mmhos/cm	Prepared: 8/17/2023 Analyzed: 8/18/2023				
Blank (BEH0919-BLK2)									
Electrical Conductivity	ND		0.01	mmhos/cm	Prepared: 8/17/2023 Analyzed: 8/18/2023				
Blank (BEH0919-BLK3)									
Electrical Conductivity	ND		0.01	mmhos/cm	Prepared: 8/17/2023 Analyzed: 8/18/2023				
Duplicate (BEH0919-DUP1)									
Electrical Conductivity	0.02		0.01	mmhos/cm	Source: 23H1632-01 Prepared: 8/17/2023 Analyzed: 8/18/2023	0.02		6.30	10
Duplicate (BEH0919-DUP2)									
Electrical Conductivity	0.47		0.01	mmhos/cm	Source: 23H1667-01 Prepared: 8/17/2023 Analyzed: 8/18/2023	0.47		0.466	10
Reference (BEH0919-SRM1)									
Electrical Conductivity	517			umhos/cm	538.0	96.1	90-110		
Reference (BEH0919-SRM3)									
Electrical Conductivity	981			umhos/cm	1000	98.1	90-110		
Reference (BEH0919-SRM4)									
Electrical Conductivity	990			umhos/cm	1000	99.0	90-110		
Reference (BEH0919-SRM5)									
Electrical Conductivity	994			umhos/cm	1000	99.4	90-110		

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



08/17/23 08:38

23H1605

WATER WORK REQUEST

Acct No. 25831 Cons. 8

Purchase Order No. _____ Results Needed By _____

Sozinho #5
12252 7th Ave
Hanford CA 93230
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>	Mentor		8/16/23 4:35pm
Second	<u>Sam Myka</u>	DLI	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 will 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 not 30 days; overdue accounts will be charged a delinquent fee of 2% per month (annual 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 Delvalle Laboratory, Inc., it will be submitted to mediation under the Rules and Procedures of Creative Alternative to Litigation, Inc. (cali). If the dispute is not resolved in mediation, then the dispute will be submitted to binding arbitration through cali under its Rules and Procedures. The parties will equally bear the costs of mediation/arbitration. If, however, the mediator declares that no legitimate dispute exists, then debtor will pay all mediation and arbitration costs, and in the event of arbitration, reasonable attorney's fees of Delvalle Laboratory.

<i>Invoicing Information:</i>	<i>Shipping</i>		
Medeiros Pricing 2023	\$ _____ 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. 2000-00000000

Correction Factor: 0 C
Date: 8/26/2023

Calibration Due: 9/26

BL

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