

**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 Jerseys

Physical address of dairy:

4615 Excelsior AVE

Number and Street

Hanford

City

Kings

County

93230

Zip Code

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

Date facility was originally placed in operation: 01/01/1970Regional Water Quality Control Board Basin Plan designation: Tulare Basin

County Assessor Parcel Number(s) for dairy facility:

**B. OPERATORS**

Sozinho, Tony

Operator name: Sozinho, TonyTelephone no.: (559) 381-5485

Landline

Cellular

8489 E Elkhorn AVE

Mailing Address Number and Street

Selma

City

CA

State

93662

Zip Code

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

Sozinho, Tony

Legal owner name: Sozinho, TonyTelephone no.: (559) 381-5485

Landline

Cellular

8489 E Elkhorn AVE

Mailing Address Number and Street

Selma

City

CA

State

93662

Zip Code

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

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

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

## AVAILABLE NUTRIENTS

### A. HERD INFORMATION

	Milk Cows	Dry Cows	Bred Heifers (15-24 mo.)	Heifers (7-14 mo. to breeding)	Calves (4-6 mo.)	Calves (0-3 mo.)
Number open confinement	0	95	130	100	100	0
Number under roof	1,050	0	0	0	0	0
Maximum number	1,050	95	130	100	100	0
Average number	1,050	95	130	100	100	0
Avg live weight (lbs)	1,100	1,200	900	700		

Predominant milk cow breed: Jersey

Average milk production: 66 pounds per cow per day

### B. MANURE GENERATED

Total manure excreted by the herd: 30,340.61 tons per reporting period

Total nitrogen from manure: 389,978.87 lbs per reporting period

After ammonia losses (30% loss applied): 272,985.21 lbs per reporting period

Total phosphorus from manure: 64,775.42 lbs per reporting period

Total potassium from manure: 198,325.29 lbs per reporting period

Total salt from manure: 516,237.75 lbs per reporting period

### C. PROCESS WASTEWATER GENERATED

Process wastewater generated: 60,920,352 gallons

Total nitrogen generated: 205,629.76 lbs

Total phosphorus generated: 17,942.41 lbs

Total potassium generated: 148,048.31 lbs

Total salt generated: 892,762.62 lbs

60,920,352 gallons applied
+ 0 gallons exported
- 0 gallons imported
= 60,920,352 gallons generated

### D. FRESH WATER SOURCES

Source Description	Type
Barn	Ground water
Canal	Surface water

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

Date	Material type	Quantity	Reporting basis	Moisture (%)	Density (lbs/cu ft)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/15/2023	Corral solids	3,000.00 <i>ton</i>	As-is	32.6		8,000.00	5,000.00	19,900.00		62.60

*No liquid nutrient exports entered.*

Material type	Total N (lbs)	Total P (lbs)	Total K (lbs)	Total salt (lbs)
Dry manure	48,000.00	30,000.00	119,400.00	2,531,544.00
Process wastewater	0.00	0.00	0.00	0.00
Total exports for all materials	48,000.00	30,000.00	119,400.00	2,531,544.00

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

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

## APPLICATION AREA

## A. LIST OF LAND APPLICATION AREAS

Field name	Controlled acres	Cropable acres	Total harvests	Type of waste applied	Parcel number
1	50	50	2	process wastewater	X014-X030-X019-XXXX
2	8	8	2	process wastewater	X014-X030-X022-XXXX
3	60	60	2	process wastewater	X014-X030-X019-XXXX X014-X030-X022-XXXX
4	80	80	2	process wastewater	X014-X030-X020-XXXX X014-X030-X021-XXXX
5	80	80	2	process wastewater	X014-X030-X020-XXXX X014-X030-X021-XXXX
Totals for areas that were used for application	278	278	10		
Totals for areas that were not used for application					
Land application area totals	278	278	10		

## B. CROPS AND HARVESTS

1

Field name: 1

11/01/2022: Wheat, silage, soft dough

Crop: Wheat, silage, soft dough Acres planted: 50 Plant date: 11/01/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/26/2023	812.50 ton	Dry-weight		47.7	16,300.00	3,200.00	27,100.00		10.39

	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	16.25	277.06	54.39	460.63	1,766.04

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

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

1

06/01/2023: Corn, silage

Crop: Corn, silage Acres planted: 50 Plant date: 06/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/23/2023	1,323.40 ton	Dry-weight		66.7	25,000.00	3,800.00	19,800.00		5.54

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	28.00	224.00	42.00	184.80	0.00
Total actual harvest content	26.47	440.69	66.99	349.03	976.57

2

Field name: 2

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

Crop: Wheat, silage, boot stage Acres planted: 8 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 (%)
05/26/2023	133.00 ton	Dry-weight		45.3	19,000.00	3,000.00	35,300.00		12.77

	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	16.63	345.57	54.56	642.03	2,322.58

06/01/2023: Corn, silage

Crop: Corn, silage Acres planted: 8 Plant date: 06/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/23/2023	221.60 ton	Dry-weight		68.8	21,400.00	3,700.00	20,100.00		7.36

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	28.00	224.00	42.00	184.80	0.00
Total actual harvest content	27.70	369.89	63.95	347.42	1,272.16

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

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

3

Field name: 3

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

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

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/26/2023	1,012.20 ton	Dry-weight		56.1	17,200.00	2,600.00	19,200.00		9.09

	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	16.87	254.76	38.51	284.39	1,346.40

06/01/2023: Corn, silage

Crop: Corn, silage Acres planted: 60 Plant date: 06/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/23/2023	1,553.50 ton	Dry-weight		69.7	20,000.00	3,800.00	22,800.00		7.47

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	28.00	224.00	42.00	184.80	0.00
Total actual harvest content	25.89	313.81	59.62	357.74	1,172.07

4

Field name: 4

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

Crop: Wheat, silage, boot stage Acres planted: 80 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 (%)
05/26/2023	1,313.50 ton	Dry-weight		55.5	17,800.00	4,100.00	31,700.00		11.20

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	256.00	44.80	192.00	0.00
Total actual harvest content	16.42	260.11	59.91	463.22	1,636.62

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

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

4

06/01/2023: Corn, silage

Crop: Corn, silage Acres planted: 80 Plant date: 06/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/23/2023	2,307.91 ton	Dry-weight		70.1	25,700.00	4,000.00	24,600.00		6.28

	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	28.85	443.37	69.01	424.39	1,083.40

5

Field name: 5

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

Crop: Wheat, silage, boot stage Acres planted: 80 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 (%)
05/26/2023	1,305.30 ton	Dry-weight		61.2	18,100.00	3,200.00	28,500.00		9.85

	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	16.32	229.17	40.52	360.85	1,247.15

06/01/2023: Corn, silage

Crop: Corn, silage Acres planted: 80 Plant date: 06/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/23/2023	2,268.10 ton	Dry-weight		65.5	16,000.00	3,500.00	21,000.00		8.66

	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	28.35	313.00	68.47	410.81	1,694.10

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

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

**NUTRIENT BUDGET**

**A. LAND APPLICATIONS**

1 - 11/01/2022: Wheat, silage, soft dough

Field name: 1

Crop: Wheat, silage, soft dough

Plant date: 11/01/2022

Application date	Application method	Precipitation 24 hours prior		Precipitation during application			Precipitation 24 hours following	
12/22/2022	Surface (irrigation)	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
WW		Process wastewater	87.63	4.16	42.78	281.78	1,194,000.00 <i>gal</i>	
Application event totals			87.63	4.16	42.78	281.78		
01/16/2023	Surface (irrigation)	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
WW		Process wastewater	87.63	4.16	42.78	281.78	1,194,000.00 <i>gal</i>	
Canal		Surface water	0.00	0.00	0.00	6.40	3,194,000.00 <i>gal</i>	
Application event totals			87.63	4.16	42.78	288.18		
02/15/2023	Surface (irrigation)	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
WW		Process wastewater	87.63	4.16	42.78	281.78	1,194,000.00 <i>gal</i>	
Canal		Surface water	0.00	0.00	0.00	6.40	3,194,000.00 <i>gal</i>	
Application event totals			87.63	4.16	42.78	288.18		
03/14/2023	Surface (irrigation)	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
WW		Process wastewater	87.63	4.16	42.78	281.78	1,194,000.00 <i>gal</i>	
Canal		Surface water	0.00	0.00	0.00	6.40	3,194,000.00 <i>gal</i>	
Application event totals			87.63	4.16	42.78	288.18		

1 - 06/01/2023: Corn, silage



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

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

1 - 06/01/2023: Corn, silage

Field name: 1

Crop: Corn, silage

Plant date: 06/01/2023

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following	
06/25/2023	Surface (irrigation)	No precipitation		No precipitation		No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal		Surface water	0.00	0.00	0.00	12.83	6,403,700.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	12.83	
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	12.83	6,403,700.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	12.83	
07/15/2023	Surface (irrigation)	No precipitation		No precipitation		No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW		Process wastewater	95.48	14.69	120.77	663.40	1,194,000.00 <i>gal</i>
Canal		Surface water	0.00	0.00	0.00	12.83	6,403,700.00 <i>gal</i>
Application event totals			95.48	14.69	120.77	676.22	
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	12.83	6,403,700.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	12.83	
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	95.48	14.69	120.77	663.40	1,194,000.00 <i>gal</i>
Canal		Surface water	0.00	0.00	0.00	12.83	6,403,700.00 <i>gal</i>
Application event totals			95.48	14.69	120.77	676.22	

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

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

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

Application date	Application method	Precipitation 24 hours prior		Precipitation during application			Precipitation 24 hours following	
08/15/2023	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	12.83	6,403,700.00 <i>gal</i>	
Application event totals			0.00	0.00	0.00	12.83		
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	
WW		Process wastewater	320.42	20.52	118.66	864.64	6,403,700.00 <i>gal</i>	
Canal		Surface water	0.00	0.00	0.00	12.83	6,403,700.00 <i>gal</i>	
Application event totals			320.42	20.52	118.66	877.47		
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	12.83	6,403,700.00 <i>gal</i>	
Application event totals			0.00	0.00	0.00	12.83		

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

Field name: 2

Crop: Wheat, silage, boot stage

Plant date: 11/01/2022

Application date	Application method	Precipitation 24 hours prior		Precipitation during application			Precipitation 24 hours following	
12/23/2022	Surface (irrigation)	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
WW		Process wastewater	103.21	4.90	50.38	331.87	225,000.00 <i>gal</i>	
Application event totals			103.21	4.90	50.38	331.87		

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

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

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

Application date	Application method	Precipitation 24 hours prior		Precipitation during application			Precipitation 24 hours following	
01/20/2023	Surface (irrigation)	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
WW		Process wastewater	103.21	4.90	50.38	331.87	225,000.00 <i>gal</i>	
Canal		Surface water	0.00	0.00	0.00	4.81	384,000.00 <i>gal</i>	
Application event totals			103.21	4.90	50.38	336.68		
02/19/2023	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	103.21	4.90	50.38	331.87	225,000.00 <i>gal</i>	
Canal		Surface water	0.00	0.00	0.00	4.81	384,000.00 <i>gal</i>	
Application event totals			103.21	4.90	50.38	336.68		
03/20/2023	Surface (irrigation)	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
WW		Process wastewater	103.21	4.90	50.38	331.87	225,000.00 <i>gal</i>	
Canal		Surface water	0.00	0.00	0.00	4.81	384,000.00 <i>gal</i>	
Application event totals			103.21	4.90	50.38	336.68		

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

Field name: 2

Crop: Corn, silage

Plant date: 06/01/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
06/26/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	11.07	884,500.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	11.07	

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

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

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

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
07/06/2023	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	312.37	48.06	395.12	2,170.35	625,000.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	11.07	884,500.00 <i>gal</i>
Application event totals		312.37	48.06	395.12	2,181.42	
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	11.07	884,500.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	11.07	
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
Canal	Surface water	0.00	0.00	0.00	11.07	884,500.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	11.07	
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	11.07	884,500.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	11.07	
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	195.46	12.52	72.38	527.43	625,000.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	11.07	884,500.00 <i>gal</i>
Application event totals		195.46	12.52	72.38	538.50	
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	11.07	884,500.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	11.07	

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

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

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

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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	11.07	884,500.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	11.07	

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

Field name: 3

Crop: Wheat, silage, boot stage

Plant date: 11/01/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
12/26/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	113.15	5.37	55.23	363.83	1,850,000.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	5.91	3,539,400.00 <i>gal</i>
Application event totals		113.15	5.37	55.23	369.74	
01/23/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	5.91	3,539,400.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	5.91	
02/22/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	113.15	5.37	55.23	363.83	1,850,000.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	5.91	3,539,400.00 <i>gal</i>
Application event totals		113.15	5.37	55.23	369.74	

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

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

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

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
03/21/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	113.15	5.37	55.23	363.83	1,850,000.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	5.91	3,539,400.00 <i>gal</i>
Application event totals		113.15	5.37	55.23	369.74	

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

Field name: 3

Crop: Corn, silage

Plant date: 06/01/2023

Application date	Application method	Precipitation 24 hours prior		Precipitation during application			Precipitation 24 hours following	
06/28/2023	Surface (irrigation)	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
Canal		Surface water	0.00	0.00	0.00	10.91	6,539,400.00 <i>gal</i>	
Application event totals			0.00	0.00	0.00	10.91		
07/08/2023	Surface (irrigation)	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
WW		Process wastewater	135.72	20.88	171.67	942.95	2,036,572.00 <i>gal</i>	
Canal		Surface water	0.00	0.00	0.00	10.91	6,539,400.00 <i>gal</i>	
Application event totals			135.72	20.88	171.67	953.86		
07/18/2023	Surface (irrigation)	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
Canal		Surface water	0.00	0.00	0.00	10.91	6,539,400.00 <i>gal</i>	
Application event totals			0.00	0.00	0.00	10.91		

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

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

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

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
07/28/2023	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	135.72	20.88	171.67	942.95	2,036,572.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	10.91	6,539,400.00 <i>gal</i>
Application event totals		135.72	20.88	171.67	953.86	
08/08/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	10.91	6,539,400.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	10.91	
08/18/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	84.92	5.44	31.45	229.15	2,036,572.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	10.91	6,539,400.00 <i>gal</i>
Application event totals		84.92	5.44	31.45	240.07	
08/28/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	10.91	6,539,400.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	10.91	
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	10.91	6,539,400.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	10.91	

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

Field name: 4

Crop: Wheat, silage, boot stage

Plant date: 11/01/2022

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

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

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

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
12/27/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	93.37	4.43	45.58	300.25	2,035,600.00 <i>gal</i>
Application event totals		93.37	4.43	45.58	300.25	
01/26/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	6.39	5,101,392.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	6.39	
02/24/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	93.37	4.43	45.58	300.25	2,035,600.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	6.39	5,101,392.00 <i>gal</i>
Application event totals		93.37	4.43	45.58	306.63	
03/23/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	93.37	4.43	45.58	300.25	2,035,600.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	6.39	5,101,392.00 <i>gal</i>
Application event totals		93.37	4.43	45.58	306.63	

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

Field name: 4

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

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



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

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

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

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following																												
06/28/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation																												
<table><tr><th>Source description</th><th>Material type</th><th>N (lbs/acre)</th><th>P (lbs/acre)</th><th>K (lbs/acre)</th><th>Salt (lbs/acre)</th><th>Amount</th></tr><tr><td>Canal</td><td>Surface water</td><td>0.00</td><td>0.00</td><td>0.00</td><td>10.40</td><td>8,309,208.00 <i>gal</i></td></tr><tr><td>Application event totals</td><td></td><td>0.00</td><td>0.00</td><td>0.00</td><td>10.40</td><td></td></tr></table>					Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	Canal	Surface water	0.00	0.00	0.00	10.40	8,309,208.00 <i>gal</i>	Application event totals		0.00	0.00	0.00	10.40								
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	10.40	8,309,208.00 <i>gal</i>																										
Application event totals		0.00	0.00	0.00	10.40																											
07/08/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation																												
<table><tr><th>Source description</th><th>Material type</th><th>N (lbs/acre)</th><th>P (lbs/acre)</th><th>K (lbs/acre)</th><th>Salt (lbs/acre)</th><th>Amount</th></tr><tr><td>WW</td><td>Process wastewater</td><td>101.79</td><td>15.66</td><td>128.75</td><td>707.21</td><td>2,036,572.00 <i>gal</i></td></tr><tr><td>Canal</td><td>Surface water</td><td>0.00</td><td>0.00</td><td>0.00</td><td>10.40</td><td>8,309,208.00 <i>gal</i></td></tr><tr><td>Application event totals</td><td></td><td>101.79</td><td>15.66</td><td>128.75</td><td>717.61</td><td></td></tr></table>					Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	WW	Process wastewater	101.79	15.66	128.75	707.21	2,036,572.00 <i>gal</i>	Canal	Surface water	0.00	0.00	0.00	10.40	8,309,208.00 <i>gal</i>	Application event totals		101.79	15.66	128.75	717.61	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount																										
WW	Process wastewater	101.79	15.66	128.75	707.21	2,036,572.00 <i>gal</i>																										
Canal	Surface water	0.00	0.00	0.00	10.40	8,309,208.00 <i>gal</i>																										
Application event totals		101.79	15.66	128.75	717.61																											
07/18/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation																												
<table><tr><th>Source description</th><th>Material type</th><th>N (lbs/acre)</th><th>P (lbs/acre)</th><th>K (lbs/acre)</th><th>Salt (lbs/acre)</th><th>Amount</th></tr><tr><td>Canal</td><td>Surface water</td><td>0.00</td><td>0.00</td><td>0.00</td><td>10.40</td><td>8,309,208.00 <i>gal</i></td></tr><tr><td>Application event totals</td><td></td><td>0.00</td><td>0.00</td><td>0.00</td><td>10.40</td><td></td></tr></table>					Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	Canal	Surface water	0.00	0.00	0.00	10.40	8,309,208.00 <i>gal</i>	Application event totals		0.00	0.00	0.00	10.40								
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	10.40	8,309,208.00 <i>gal</i>																										
Application event totals		0.00	0.00	0.00	10.40																											
07/28/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation																												
<table><tr><th>Source description</th><th>Material type</th><th>N (lbs/acre)</th><th>P (lbs/acre)</th><th>K (lbs/acre)</th><th>Salt (lbs/acre)</th><th>Amount</th></tr><tr><td>WW</td><td>Process wastewater</td><td>101.79</td><td>15.66</td><td>128.75</td><td>707.21</td><td>2,036,572.00 <i>gal</i></td></tr><tr><td>Canal</td><td>Surface water</td><td>0.00</td><td>0.00</td><td>0.00</td><td>10.40</td><td>8,309,208.00 <i>gal</i></td></tr><tr><td>Application event totals</td><td></td><td>101.79</td><td>15.66</td><td>128.75</td><td>717.61</td><td></td></tr></table>					Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	WW	Process wastewater	101.79	15.66	128.75	707.21	2,036,572.00 <i>gal</i>	Canal	Surface water	0.00	0.00	0.00	10.40	8,309,208.00 <i>gal</i>	Application event totals		101.79	15.66	128.75	717.61	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount																										
WW	Process wastewater	101.79	15.66	128.75	707.21	2,036,572.00 <i>gal</i>																										
Canal	Surface water	0.00	0.00	0.00	10.40	8,309,208.00 <i>gal</i>																										
Application event totals		101.79	15.66	128.75	717.61																											
08/08/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation																												
<table><tr><th>Source description</th><th>Material type</th><th>N (lbs/acre)</th><th>P (lbs/acre)</th><th>K (lbs/acre)</th><th>Salt (lbs/acre)</th><th>Amount</th></tr><tr><td>WW</td><td>Process wastewater</td><td>101.79</td><td>15.66</td><td>128.75</td><td>707.21</td><td>2,036,572.00 <i>gal</i></td></tr><tr><td>Canal</td><td>Surface water</td><td>0.00</td><td>0.00</td><td>0.00</td><td>10.40</td><td>8,309,208.00 <i>gal</i></td></tr><tr><td>Application event totals</td><td></td><td>101.79</td><td>15.66</td><td>128.75</td><td>717.61</td><td></td></tr></table>					Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	WW	Process wastewater	101.79	15.66	128.75	707.21	2,036,572.00 <i>gal</i>	Canal	Surface water	0.00	0.00	0.00	10.40	8,309,208.00 <i>gal</i>	Application event totals		101.79	15.66	128.75	717.61	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount																										
WW	Process wastewater	101.79	15.66	128.75	707.21	2,036,572.00 <i>gal</i>																										
Canal	Surface water	0.00	0.00	0.00	10.40	8,309,208.00 <i>gal</i>																										
Application event totals		101.79	15.66	128.75	717.61																											

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

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

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

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
08/18/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	101.79	15.66	128.75	707.21	2,036,572.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	10.40	8,309,208.00 <i>gal</i>
Application event totals		101.79	15.66	128.75	717.61	
08/28/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	10.40	8,309,208.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	10.40	
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
WW	Process wastewater	63.69	4.08	23.59	171.86	2,036,572.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	10.40	8,309,208.00 <i>gal</i>
Application event totals		63.69	4.08	23.59	182.26	

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

Field name: 5

Crop: Wheat, silage, boot stage

Plant date: 11/01/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application			Precipitation 24 hours following	
12/28/2022	Surface (irrigation)	No precipitation	No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW		Process wastewater	93.42	4.43	45.60	300.39	2,036,572.00 <i>gal</i>
Application event totals			93.42	4.43	45.60	300.39	

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

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

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

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
02/22/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	93.42	4.43	45.60	300.39	2,036,572.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	7.90	6,309,208.00 <i>gal</i>
Application event totals		93.42	4.43	45.60	308.29	
03/21/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	93.42	4.43	45.60	300.39	2,036,572.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	7.90	6,309,208.00 <i>gal</i>
Application event totals		93.42	4.43	45.60	308.29	
04/20/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	7.90	6,309,208.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	7.90	

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

Field name: 5

Crop: Corn, silage

Plant date: 06/01/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
06/29/2023	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	11.65	9,309,208.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	11.65	

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

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

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

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
07/09/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	101.72	15.65	128.66	706.74	2,035,208.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	11.65	9,309,208.00 <i>gal</i>
Application event totals		101.72	15.65	128.66	718.39	
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	11.65	9,309,208.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	11.65	
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	94.96	6.08	35.17	256.25	3,036,572.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	11.65	9,309,208.00 <i>gal</i>
Application event totals		94.96	6.08	35.17	267.91	
08/09/2023	Shank	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	11.65	9,309,208.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	11.65	
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	94.96	6.08	35.17	256.25	3,036,572.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	11.65	9,309,208.00 <i>gal</i>
Application event totals		94.96	6.08	35.17	267.91	

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

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

5 - 06/01/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following			
08/29/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation			
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW		Process wastewater	94.92	6.08	35.15	256.14	3,035,208.00 <i>gal</i>
Canal		Surface water	0.00	0.00	0.00	11.65	9,309,208.00 <i>gal</i>
Application event totals			94.92	6.08	35.15	267.79	
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	11.65	9,309,208.00 <i>gal</i>
Application event totals			0.00	0.00	0.00	11.65	

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

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

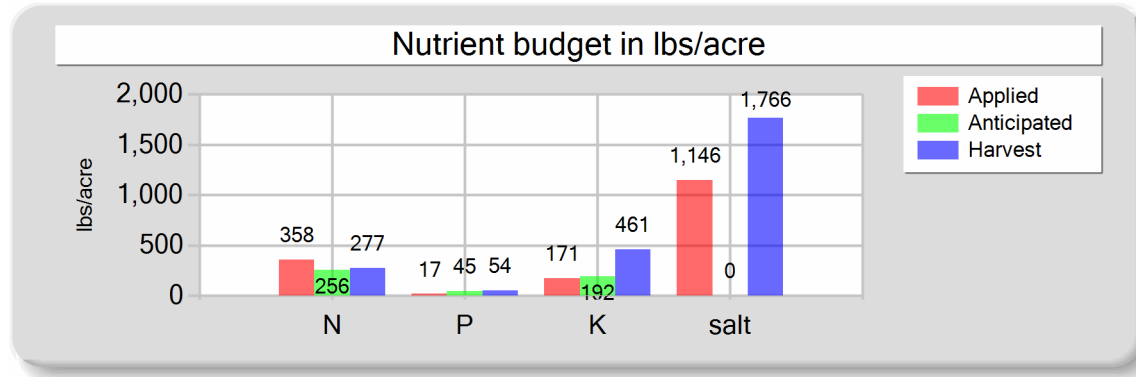
## B. NUTRIENT BUDGET

1 - 11/01/2022: Wheat, silage, soft dough

Field name: 1

Crop: Wheat, silage, soft dough

Plant date: 11/01/2022



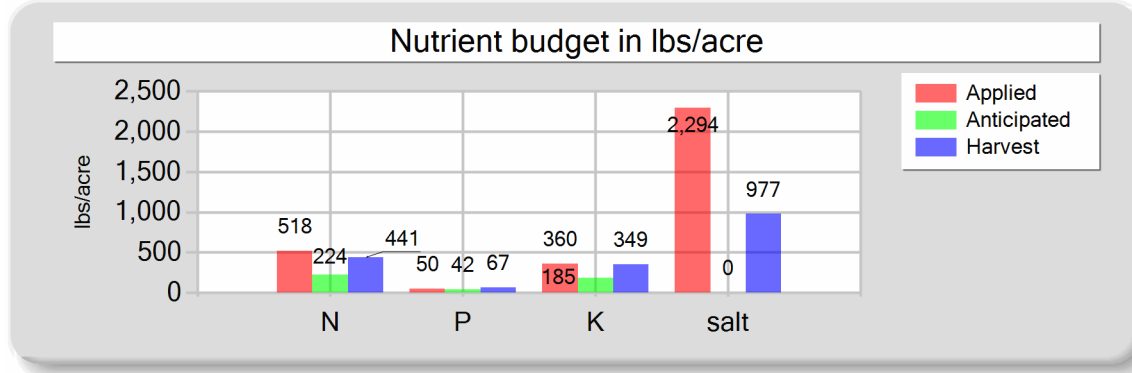
	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	9,582,000.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	352.87 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	7.06 inches/acre
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	350.52	16.64	171.11	1,127.12	Process wastewater applied
Fresh water	0.00	0.00	0.00	19.19	4,776,000.00 gallons
Atmospheric deposition	7.00	0.00	0.00	0.00	175.88 acre-inches
Total nutrients applied	357.52	16.64	171.11	1,146.31	3.52 inches/acre
Anticipated crop nutrient removal	256.00	44.80	192.00	0.00	
Actual crop nutrient removal	277.06	54.39	460.63	1,766.04	Total harvests for the crop
Nutrient balance	80.46	-37.76	-289.52	-619.73	1 harvests
Applied to removed ratio	1.29	0.31	0.37	0.65	

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

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

1 - 06/01/2023: Corn, silage

Field name: 1 Crop: Corn, silage Plant date: 06/01/2023



	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	51,229,600.00 <i>gallons</i>
Plowdown credit	0.00	0.00	0.00	0.00	1,886.61 <i>acre-inches</i>
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	37.73 <i>inches/acre</i>
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	511.38	49.90	360.20	2,191.44	Process wastewater applied
Fresh water	0.00	0.00	0.00	102.60	8,791,700.00 <i>gallons</i>
Atmospheric deposition	7.00	0.00	0.00	0.00	323.77 <i>acre-inches</i>
Total nutrients applied	518.38	49.90	360.20	2,294.04	6.48 <i>inches/acre</i>
Anticipated crop nutrient removal	224.00	42.00	184.80	0.00	
Actual crop nutrient removal	440.69	66.99	349.03	976.57	Total harvests for the crop
Nutrient balance	77.69	-17.09	11.17	1,317.47	1 <i>harvests</i>
Applied to removed ratio	1.18	0.74	1.03	2.35	

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

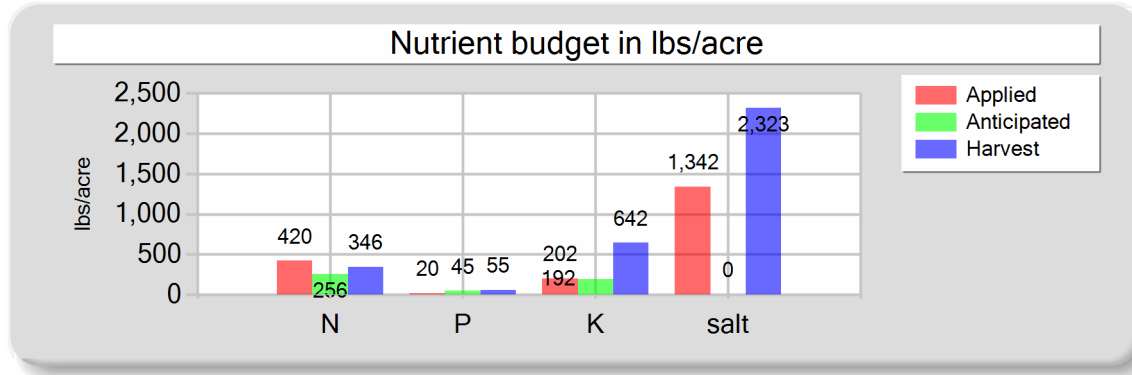
Reporting period 01/01/2023 to 12/31/2023.

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

Field name: 2

Crop: Wheat, silage, boot stage

Plant date: 11/01/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	412.83	19.59	201.53	1,327.48
Fresh water	0.00	0.00	0.00	14.42
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	419.83	19.59	201.53	1,341.90
Anticipated crop nutrient removal	256.00	44.80	192.00	0.00
Actual crop nutrient removal	345.57	54.56	642.03	2,322.58
Nutrient balance	74.27	-34.97	-440.50	-980.67
Applied to removed ratio	1.21	0.36	0.31	0.58

Fresh water applied
1,152,000.00 <i>gallons</i>
42.42 <i>acre-inches</i>
5.30 <i>inches/acre</i>

Process wastewater applied
900,000.00 <i>gallons</i>
33.14 <i>acre-inches</i>
4.14 <i>inches/acre</i>

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



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

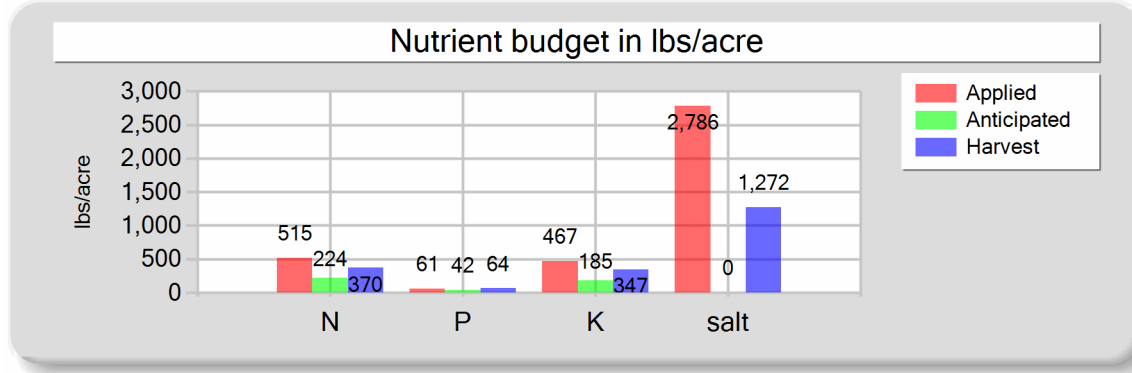
Reporting period 01/01/2023 to 12/31/2023.

2 - 06/01/2023: Corn, silage

Field name: 2

Crop: Corn, silage

Plant date: 06/01/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	507.83	60.57	467.50	2,697.78
Fresh water	0.00	0.00	0.00	88.57
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	514.83	60.57	467.50	2,786.36
Anticipated crop nutrient removal	224.00	42.00	184.80	0.00
Actual crop nutrient removal	369.89	63.95	347.42	1,272.16
Nutrient balance	144.93	-3.38	120.07	1,514.19
Applied to removed ratio	1.39	0.95	1.35	2.19

Fresh water applied
7,076,000.00 gallons
260.59 acre-inches
32.57 inches/acre

Process wastewater applied
1,250,000.00 gallons
46.03 acre-inches
5.75 inches/acre

Total harvests for the crop
1 harvests

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

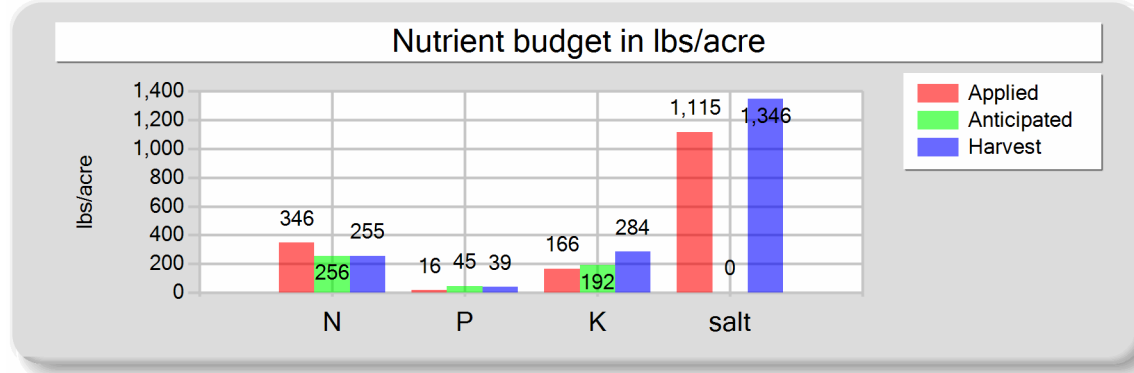
Reporting period 01/01/2023 to 12/31/2023.

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

Field name: 3

Crop: Wheat, silage, boot stage

Plant date: 11/01/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	339.44	16.11	165.70	1,091.48
Fresh water	0.00	0.00	0.00	23.63
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	346.44	16.11	165.70	1,115.11
Anticipated crop nutrient removal	256.00	44.80	192.00	0.00
Actual crop nutrient removal	254.76	38.51	284.39	1,346.40
Nutrient balance	91.68	-22.40	-118.69	-231.28
Applied to removed ratio	1.36	0.42	0.58	0.83

Fresh water applied
14,157,600.00 gallons
521.38 acre-inches
8.69 inches/acre

Process wastewater applied
5,550,000.00 gallons
204.39 acre-inches
3.41 inches/acre

Total harvests for the crop
1 harvests

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

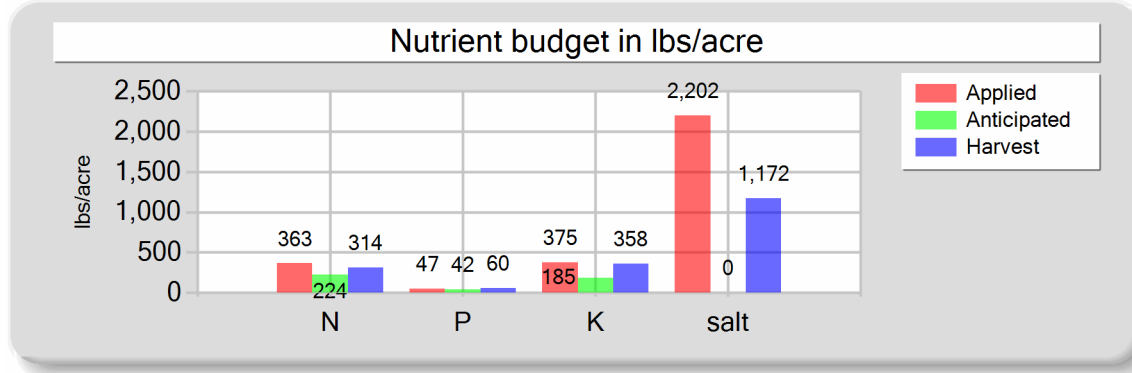
Reporting period 01/01/2023 to 12/31/2023.

3 - 06/01/2023: Corn, silage

Field name: 3

Crop: Corn, silage

Plant date: 06/01/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	52,315,200.00 <i>gallons</i>
Plowdown credit	0.00	0.00	0.00	0.00	1,926.59 <i>acre-inches</i>
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	32.11 <i>inches/acre</i>
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	356.35	47.20	374.78	2,115.05	Process wastewater applied
Fresh water	0.00	0.00	0.00	87.31	6,109,716.00 <i>gallons</i>
Atmospheric deposition	7.00	0.00	0.00	0.00	225.00 <i>acre-inches</i>
Total nutrients applied	363.35	47.20	374.78	2,202.37	3.75 <i>inches/acre</i>
Anticipated crop nutrient removal	224.00	42.00	184.80	0.00	
Actual crop nutrient removal	313.81	59.62	357.74	1,172.07	Total harvests for the crop
Nutrient balance	49.54	-12.43	17.04	1,030.30	1 <i>harvests</i>
Applied to removed ratio	1.16	0.79	1.05	1.88	

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

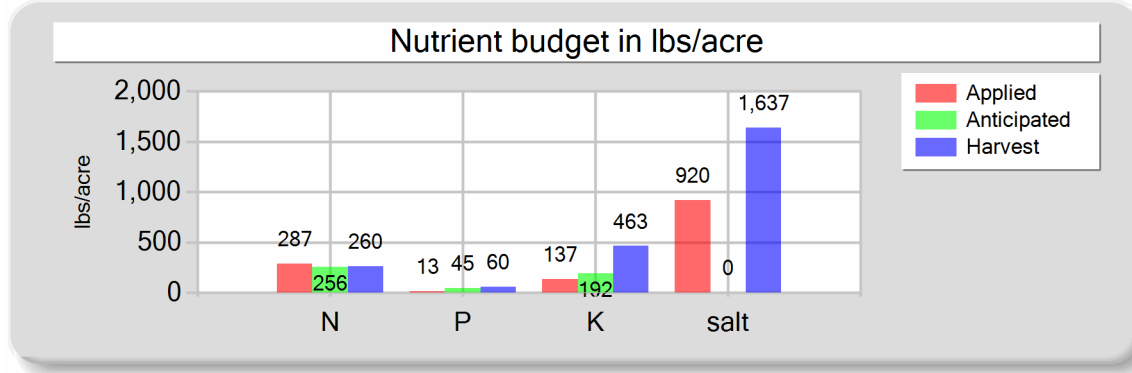
Reporting period 01/01/2023 to 12/31/2023.

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

Field name: 4

Crop: Wheat, silage, boot stage

Plant date: 11/01/2022



	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	280.12	13.29	136.74	900.74
Fresh water	0.00	0.00	0.00	19.16
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	287.12	13.29	136.74	919.90
Anticipated crop nutrient removal	256.00	44.80	192.00	0.00
Actual crop nutrient removal	260.11	59.91	463.22	1,636.62
Nutrient balance	27.02	-46.62	-326.48	-716.72
Applied to removed ratio	1.10	0.22	0.30	0.56

Fresh water applied
15,304,176.00 <i>gallons</i>
563.60 <i>acre-inches</i>
7.05 <i>inches/acre</i>

Process wastewater applied
6,106,800.00 <i>gallons</i>
224.89 <i>acre-inches</i>
2.81 <i>inches/acre</i>

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

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

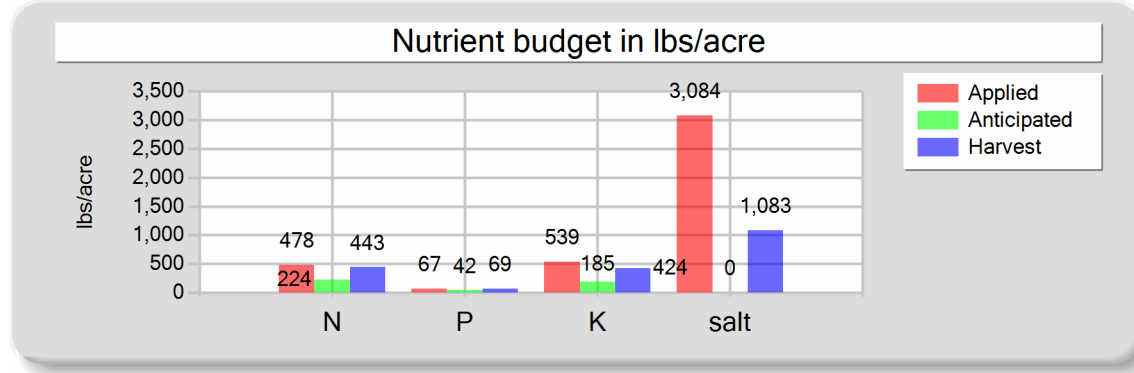
Reporting period 01/01/2023 to 12/31/2023.

4 - 06/01/2023: Corn, silage

Field name: 4

Crop: Corn, silage

Plant date: 06/01/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	470.83	66.71	538.58	3,000.71
Fresh water	0.00	0.00	0.00	83.21
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	477.83	66.71	538.58	3,083.92
Anticipated crop nutrient removal	224.00	42.00	184.80	0.00
Actual crop nutrient removal	443.37	69.01	424.39	1,083.40
Nutrient balance	34.47	-2.29	114.19	2,000.52
Applied to removed ratio	1.08	0.97	1.27	2.85

Fresh water applied
66,473,664.00 gallons
2,448.00 acre-inches
30.60 inches/acre

Process wastewater applied
10,182,860.00 gallons
375.00 acre-inches
4.69 inches/acre

Total harvests for the crop
1 harvests

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

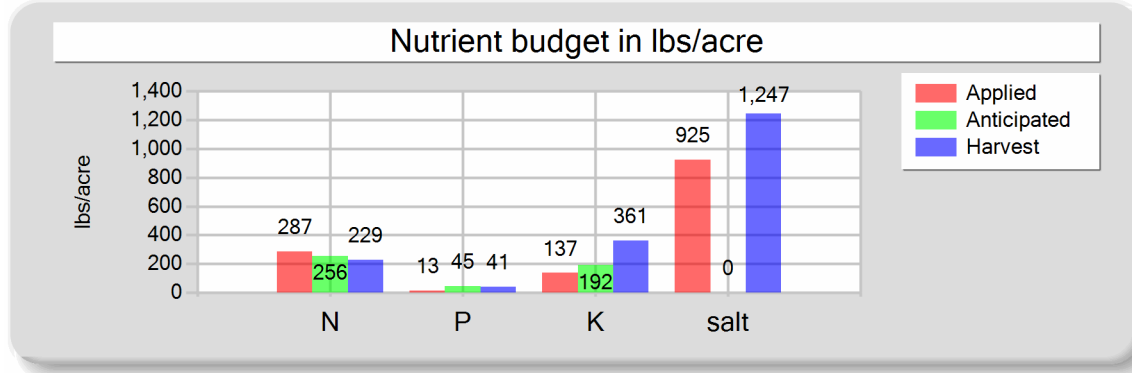
Reporting period 01/01/2023 to 12/31/2023.

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

Field name: 5

Crop: Wheat, silage, boot stage

Plant date: 11/01/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	280.25	13.30	136.81	901.17
Fresh water	0.00	0.00	0.00	23.69
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	287.25	13.30	136.81	924.86
Anticipated crop nutrient removal	256.00	44.80	192.00	0.00
Actual crop nutrient removal	229.17	40.52	360.85	1,247.15
Nutrient balance	58.08	-27.22	-224.04	-322.29
Applied to removed ratio	1.25	0.33	0.38	0.74

Fresh water applied
18,927,624.00 gallons
697.04 acre-inches
8.71 inches/acre

Process wastewater applied
6,109,716.00 gallons
225.00 acre-inches
2.81 inches/acre

Total harvests for the crop
1 harvests

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

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

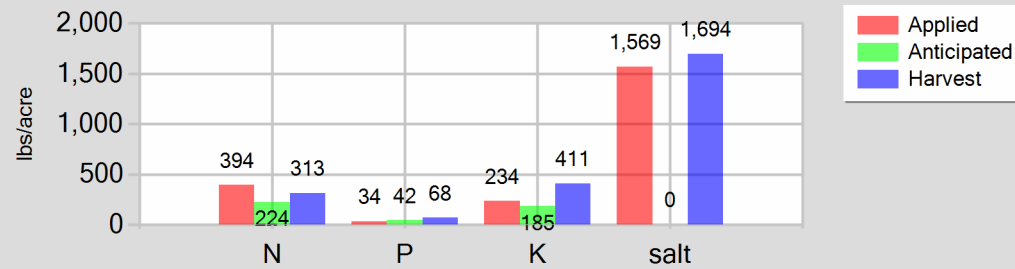
5 - 06/01/2023: Corn, silage

Field name: 5

Crop: Corn, silage

Plant date: 06/01/2023

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	386.56	33.89	234.14	1,475.38
Fresh water	0.00	0.00	0.00	93.22
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	393.56	33.89	234.14	1,568.60
Anticipated crop nutrient removal	224.00	42.00	184.80	0.00
Actual crop nutrient removal	313.00	68.47	410.81	1,694.10
Nutrient balance	80.56	-34.58	-176.66	-125.50
Applied to removed ratio	1.26	0.49	0.57	0.93

Fresh water applied
74,473,664.00 gallons
2,742.61 acre-inches
34.28 inches/acre
Process wastewater applied
11,143,560.00 gallons
410.38 acre-inches
5.13 inches/acre
Total harvests for the crop
1 harvests

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

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

## NUTRIENT ANALYSES

## A. MANURE ANALYSES

## Dry Manure

Sample and source description: Dry Manure

Sample date: 06/09/2023 Material type: Corral solids

Source of analysis: Lab analysis

Method of reporting: As-is

Moisture: 20.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	10,900.00	5,300.00	20,800.00	13,200.00	7,900.00	7,000.00	4,200.00	87.80		73.45
DL	100.00	100.00	100.00	100.00	100.00	100.00	100.00	1.00		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: 32.6 %

	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	8,000.00	5,000.00	19,900.00							62.60
DL	100.00	100.00	100.00							1.00

## B. PROCESS WASTEWATER ANALYSES

## 1st Qtr WW

Sample and source description: 1st Qtr WW

Sample date: 02/03/2023 Material type: Process wastewater

Source of analysis: Lab analysis

pH: 7.82

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	439.74	57.62	0.00	0.00	20.87	214.66								2,210.00	1,414
DL	67.00	0.57	0.01	0.01	0.64	0.01								1.00	19



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

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

## 2nd Qtr WW

Sample and source description: 2nd Qtr WW

Sample date: 06/09/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: 7.70

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
<b>Value</b>	479.13	163.09	0.00	0.00	73.71	606.05	6.40	7.30	7.20	47.50	0.00	1.20	7.50	520.00	3,329
<b>DL</b>	67.00	0.57	0.01	0.01	0.64	0.01	0.01	0.01	0.01	0.10	0.10	0.02	0.10	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: 7.25

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
<b>Value</b>	299.80	60.82	0.00	0.00	19.20	111.02								1,265.00	809
<b>DL</b>	67.00	0.57	0.01	0.01	0.64	0.01								1.00	19

## 4th Qtr WW

Sample and source description: 4th Qtr WW

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

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
<b>Value</b>	389.60	100.00	0.00	0.00	57.30	313.19								2,972.00	1,902
<b>DL</b>	67.00	0.57	0.01	0.01	0.64	0.01								1.00	19

## C. FRESH WATER ANALYSES

Barn

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

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

## Barn

### Barn

Sample description: Barn

Sample date: 12/13/2023 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)
<b>Value</b>	0.50										1,120.00	
<b>DL</b>	0.10										10.00	

## Canal

### Canal

Sample description: Canal

Sample date: 08/16/2023 Source of analysis: Lab analysis

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

## D. SOIL ANALYSES

*No soil analyses entered.*

## E. PLANT TISSUE ANALYSES

1 - 11/01/2022: Wheat, silage, soft dough

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

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

1 - 11/01/2022: Wheat, silage, soft dough

1

Sample and source description: 1

Sample date: 05/26/2022 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 60.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	16,300.00	3,200.00	27,100.00		10.39
DL	100.00	100.00	100.00		1.00

1 - 06/01/2023: Corn, silage

1

Sample and source description: 1

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

Moisture: 66.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	25,000.00	3,800.00	19,800.00		5.54
DL	100.00	100.00	100.00		1.00

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

2

Sample and source description: 2

Sample date: 05/26/2022 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	19,000.00	3,000.00	35,300.00		12.77
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.*

2 - 06/01/2023: Corn, silage

2

Sample and source description: 2

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

Moisture: 68.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	31,400.00	3,700.00	20,100.00		7.36
<b>DL</b>	100.00	100.00	100.00		1.00

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

3

Sample and source description: 3

Sample date: 05/26/2022 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 60.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	17,200.00	2,600.00	19,200.00		9.09
<b>DL</b>	100.00	100.00	100.00		1.00

3 - 06/01/2023: Corn, silage

3

Sample and source description: 3

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

Moisture: 69.7 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	20,000.00	3,800.00	22,800.00		7.47
<b>DL</b>	100.00	100.00	100.00		1.00

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

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

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

**4**

Sample and source description: 4

Sample date: 05/26/2022 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 60.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	17,800.00	4,100.00	31,700.00		11.20
<b>DL</b>	100.00	100.00	100.00		1.00

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

**4**

Sample and source description: 4

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

Moisture: 70.1 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	25,700.00	4,000.00	24,600.00		6.28
<b>DL</b>	100.00	100.00	100.00		1.00

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

**5**

Sample and source description: 5

Sample date: 05/26/2023 Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 61.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
<b>Value</b>	18,100.00	3,200.00	28,500.00		9.85
<b>DL</b>	100.00	100.00	100.00		1.00

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

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

5 - 06/01/2023: Corn, silage

5

Sample and source description: 5

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

Moisture: 65.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	16,000.00	3,500.00	21,000.00		8.66
DL	100.00	100.00	100.00		1.00

F. SUBSURFACE (TILE) DRAINAGE ANALYSES

No subsurface (tile) drainage analyses entered.

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

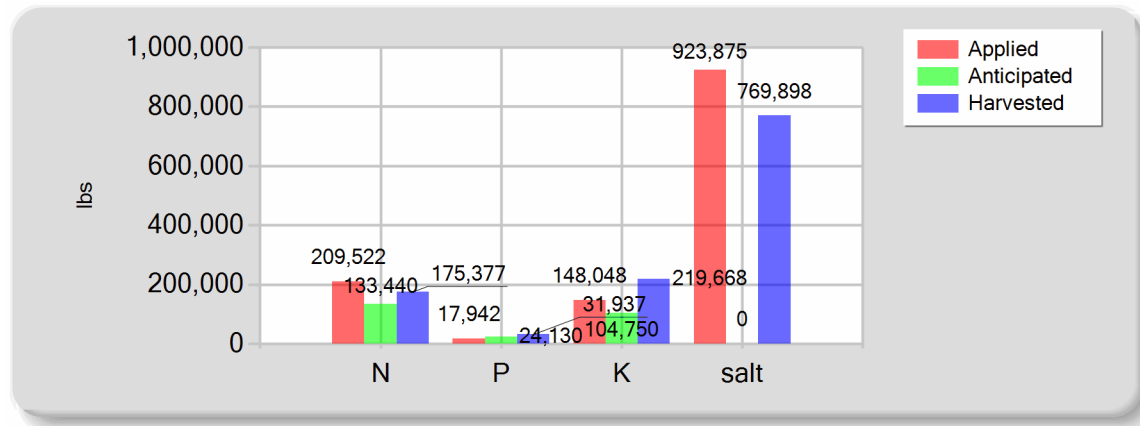
Reporting period 01/01/2023 to 12/31/2023.

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

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

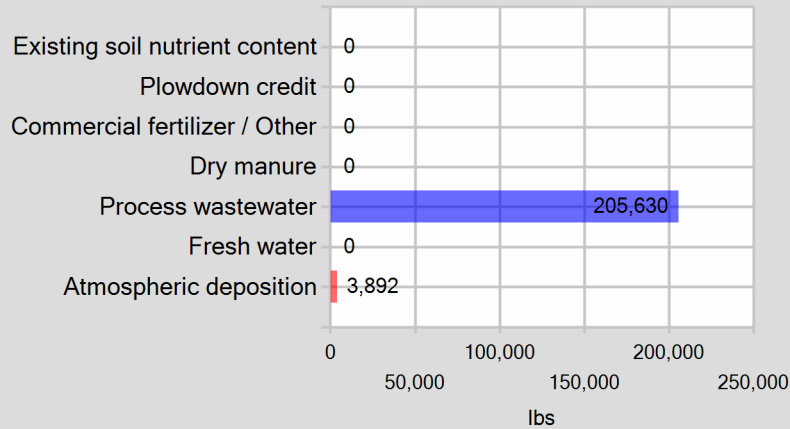
	Total N (lbs)	Total P (lbs)	Total K (lbs)	Total salt (lbs)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	205,629.76	17,942.41	148,048.31	892,762.62
Fresh water	0.00	0.00	0.00	31,112.65
Atmospheric deposition	3,892.00	0.00	0.00	0.00
Total nutrients applied	209,521.76	17,942.41	148,048.31	923,875.27
Anticipated crop nutrient removal	133,440.00	24,130.40	104,750.40	0.00
Actual crop nutrient removal	175,376.89	31,937.31	219,668.06	769,898.45
Nutrient balance	34,144.87	-13,994.90	-71,619.75	153,976.82
Applied to removed ratio	1.19	0.56	0.67	1.20

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

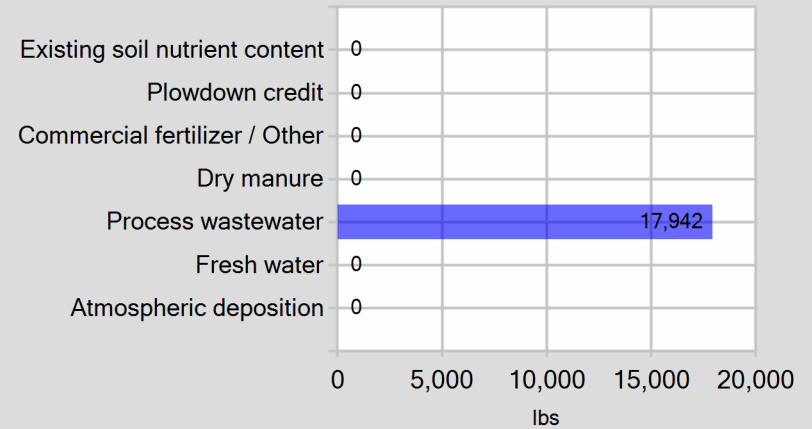


## C. POUNDS OF NUTRIENT APPLIED BY MATERIAL TYPE

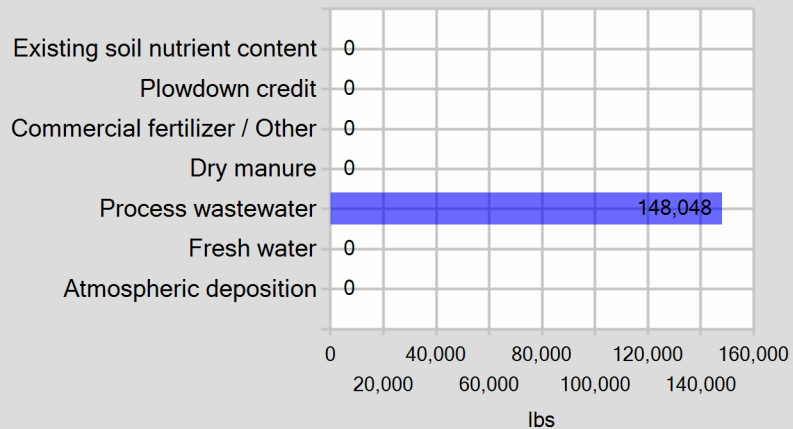
Pounds of nitrogen applied



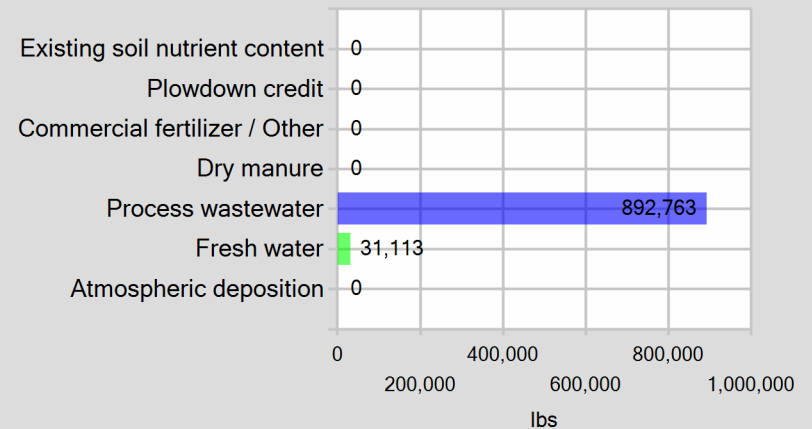
Pounds of phosphorus applied



Pounds of potassium applied



Pounds of salt applied





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

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

**EXCEPTION REPORTING**

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

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

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

**B. STORM WATER DISCHARGES**

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

*No stormwater discharges occurred during the reporting period.*

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

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

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

**NUTRIENT MANAGEMENT PLAN AND EXPORT AGREEMENT STATEMENTS**

**A. NUTRIENT MANAGEMENT PLAN STATEMENTS**

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

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

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

**B. EXPORT AGREEMENT STATEMENT**

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

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

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

ADDITIONAL NOTES

**A. NOTES**

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

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

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

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

**CERTIFICATION**

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

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

SIGNATURE OF OWNER OF FACILITY

SIGNATURE OF OPERATOR OF FACILITY

Tony Sozinho

SAME AS OWNER

PRINT OR TYPE NAME

PRINT OR TYPE NAME

DATE

DATE

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

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

**ATTACHMENTS**

**A. REQUIRED ATTACHMENTS**

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

**Annual Dairy Facility Assessment**

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

**Manure/Process Wastewater Tracking Manifests**

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

**Corrective Actions Documents**

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

**Groundwater Monitoring**

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

**Storm Water Monitoring**

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

**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: Brian Mello

Name of Dairy Facility: Sozinho Jerseys

Facility Address:

4615 Excelsior AVE  
Number and Street

Hanford  
City

Kings  
County

93230  
Zip Code

Contact Person Name and Phone Number: Brian Mello  
Name

(559) 816-2965  
Phone Number

**MANURE HAULER INFORMATION**

Name of Hauling Company/Person: B Mello Ag

Address of Hauling Company/Person:

5771 7th AVE  
Number and Street

Hanford  
City

CA  
State

93230  
Zip Code

Contact Person: Brian Mello  
Name

(559) 816-3889  
Phone Number

**DESTINATION INFORMATION**

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

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

B Mello Ag Service  
Name

(559) 816-3889  
Phone Number

5771 7th  
Address

Hanford  
City

CA  
State

93230  
Zip Code

Destination Address or Assessor's Parcel Number:

Address

Hanford  
City

93230  
Zip Code

7th

Street and nearest cross street (if no address)

Kings  
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: 3,000.00 tons

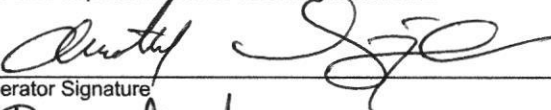
Manure Solids Content: 67.4 %

Method used to determine amount of manure:

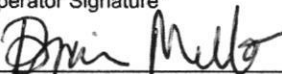
Weighted Average

**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

6/18/24  
Date

  
Hauler Signature

6/18/24  
Date

Sozinho Jerseys  
4615 Excelsior Ave  
Hanford, CA 93230

Account# 00-0025833  
Account Manager: Ben Nydam  
Submitted By: Christina Medeiros

Received: 08/17/2023 8:31  
Reported: 08/23/2023 14:44

## Samples in this Report

Lab ID	Sample	Matrix	Sampled By	Crop	Date Sampled
23H1587-01	Canal	Ag Water			08/16/2023 15:50

Default Cooler      Temperature on Receipt °C: 3.1  
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

Sozinho Jerseys  
4615 Excelsior Ave  
Hanford, CA 93230

Account# 00-0025833  
Account Manager: Ben Nydam  
Submitted By: Christina Medeiros

Received: 08/17/2023 8:31  
Reported: 08/23/2023 14:44

## Sample Results

**Sample: Canal**  
**23H1587-01 (Water)**

Sampled: 8/16/2023 15:50

Sampled By:

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
<b>Electrical Conductivity</b>	<b>0.02</b>	mmhos/cm	0.01	1		08/18/23 17:23	SM 2510 B		BEH0918
Nitrate Nitrogen as NO3N	ND	mg/L	0.1	1	10	08/18/23 01:12	EPA 300.0		BEH0886



Sozinho Jerseys  
4615 Excelsior Ave  
Hanford, CA 93230

Account# 00-0025833  
Account Manager: Ben Nydam  
Submitted By: Christina Medeiros

Received: 08/17/2023 8:31  
Reported: 08/23/2023 14:44

### Quality Control

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Batch: BEH0886</b>									
<b>Blank (BEH0886-BLK1)</b>				Prepared & Analyzed: 8/17/2023					
Nitrate Nitrogen as NO3N	ND	0.1	mg/L						
<b>Blank (BEH0886-BLK2)</b>				Prepared & Analyzed: 8/17/2023					
Nitrate Nitrogen as NO3N	ND	0.1	mg/L						
<b>Blank (BEH0886-BLK3)</b>				Prepared: 8/17/2023 Analyzed: 8/18/2023					
Nitrate Nitrogen as NO3N	ND	0.1	mg/L						
<b>LCS (BEH0886-BS1)</b>				Prepared & Analyzed: 8/17/2023					
Nitrate Nitrogen as NO3N	4.9	0.1	mg/L	5.000		97.8	90-110		
<b>LCS (BEH0886-BS2)</b>				Prepared: 8/17/2023 Analyzed: 8/18/2023					
Nitrate Nitrogen as NO3N	4.9	0.1	mg/L	5.000		98.4	90-110		
<b>Duplicate (BEH0886-DUP1)</b>		<b>Source: 23H0170-01</b>		Prepared & Analyzed: 8/17/2023					
Nitrate Nitrogen as NO3N	0.2	0.1	mg/L		0.2			0.475	10
<b>Duplicate (BEH0886-DUP2)</b>		<b>Source: 23H1556-01</b>		Prepared: 8/17/2023 Analyzed: 8/18/2023					
Nitrate Nitrogen as NO3N	5.8	0.1	mg/L		5.8			0.172	10
<b>Matrix Spike (BEH0886-MS1)</b>		<b>Source: 23H0170-01</b>		Prepared & Analyzed: 8/17/2023					
Nitrate Nitrogen as NO3N	5.2	0.1	mg/L	5.000	0.2	99.6	90-110		
<b>Matrix Spike (BEH0886-MS2)</b>		<b>Source: 23H1556-01</b>		Prepared: 8/17/2023 Analyzed: 8/18/2023					
Nitrate Nitrogen as NO3N	10.8	0.1	mg/L	5.000	5.8	98.9	90-110		
<b>Reference (BEH0886-SRM1)</b>				Prepared & Analyzed: 8/17/2023					
Nitrate Nitrogen as NO3N	9.9		mg/L	10.00		98.8	90-110		
<b>Reference (BEH0886-SRM2)</b>				Prepared: 8/17/2023 Analyzed: 8/18/2023					
Nitrate Nitrogen as NO3N	10.0		mg/L	10.00		99.6	90-110		
<b>Reference (BEH0886-SRM3)</b>				Prepared: 8/17/2023 Analyzed: 8/18/2023					
Nitrate Nitrogen as NO3N	10.0		mg/L	10.00		99.6	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.

Sozinho Jerseys  
4615 Excelsior Ave  
Hanford, CA 93230

Account# 00-0025833  
Account Manager: Ben Nydam  
Submitted By: Christina Medeiros

Received: 08/17/2023 8:31  
Reported: 08/23/2023 14:44

### Quality Control (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Batch: BEH0918</b>									
<b>Blank (BEH0918-BLK1)</b>									
Electrical Conductivity	ND	0.01	mmhos/cm		Prepared: 8/17/2023	Analyzed: 8/18/2023			
<b>Blank (BEH0918-BLK2)</b>									
Electrical Conductivity	ND	0.01	mmhos/cm		Prepared: 8/17/2023	Analyzed: 8/18/2023			
<b>Blank (BEH0918-BLK3)</b>									
Electrical Conductivity	ND	0.01	mmhos/cm		Prepared: 8/17/2023	Analyzed: 8/18/2023			
<b>Duplicate (BEH0918-DUP1)</b>									
Electrical Conductivity	0.02	0.01	mmhos/cm		Prepared: 8/17/2023	Analyzed: 8/18/2023		9.30	10
<b>Duplicate (BEH0918-DUP2)</b>									
Electrical Conductivity	0.02	0.01	mmhos/cm		Prepared: 8/17/2023	Analyzed: 8/18/2023		0.00	10
<b>Reference (BEH0918-SRM1)</b>									
Electrical Conductivity	511		umhos/cm	538.0	Prepared: 8/17/2023	Analyzed: 8/18/2023	94.9	90-110	
<b>Reference (BEH0918-SRM3)</b>									
Electrical Conductivity	956		umhos/cm	1000	Prepared: 8/17/2023	Analyzed: 8/18/2023	95.6	90-110	
<b>Reference (BEH0918-SRM4)</b>									
Electrical Conductivity	956		umhos/cm	1000	Prepared: 8/17/2023	Analyzed: 8/18/2023	95.6	90-110	
<b>Reference (BEH0918-SRM5)</b>									
Electrical Conductivity	971		umhos/cm	1000	Prepared: 8/17/2023	Analyzed: 8/18/2023	97.1	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 08:31

23H1587

EDS

## WATER WORK REQUEST

 Bill To: Acct No. 25833 Cons. 8

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

 Client Sozinho Jerseys  
 Address 4615 Excelsior Ave  
 City, State, Zip Hanford CA 93230  
 Email sozinhodairies@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. <u>(can)</u>	Sampled From: _____
2. _____	Sampled From: _____
3. _____	Sampled From: _____
4. _____	Sampled From: _____
5. _____	Sampled From: _____
6. _____	Sampled From: _____
7. _____	Sampled From: _____
8. _____	Sampled From: _____
9. _____	Sampled From: _____
10. _____	Sampled From: _____

## CHAIN OF CUSTODY

Carrier	Signature	Company	Received (Date/Time)	Relinquished (Date/Time)
First	<u>[Signature]</u>	<u>Medeiros</u>	<u>8/16/23 4:35pm</u>	<u>8/16/23 4:35pm</u>
Second	<u>[Signature]</u>	<u>DLI</u>	<u>8/17/23 8:31</u>	
Third	<u>MM</u>	<u>DLI</u>		
Fourth				

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

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

Invoicing Information:		Shipping	
Medeiros Pricing 2023			
Sampling Hrs _____	Miles _____	Consulting _____	
Amt Paid _____		Rec By _____	Check No. _____
		Date _____	

## DELLAVALLE LABORATORY, INC.

 1910 W. McKinley Avenue, Suite 110 • Fresno, CA 93728  
 www.dellavallelab.com 559 233-6124 • 800 228-9896 • Fax 559 268-8174

No. of Samples \_\_\_\_\_

No. Bottles \_\_\_\_\_

## Water Type:

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

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

☒ EC, NO<sub>3</sub>-N

(1) 1 L plastic, unpreserved (white)

☐ DWW1: (EC, pH, NO<sub>3</sub>-N, NH<sub>4</sub>-N Field Test)

(1) 1 L plastic, unpreserved (white)

☐ DWW2: (DWW1 Plus SO<sub>4</sub>, CO<sub>3</sub>, HCO<sub>3</sub>, Cl, Ca, Mg, Na, TDS)

(1) 1 L plastic, unpreserved (white)

☐ DCW1: (EC, NO<sub>3</sub>-N, TDS)

(1) 1 L plastic, unpreserved (white)

☐ DPW1: (EC, pH, NO<sub>3</sub>-N, NH<sub>4</sub>-N, TKN, TDS, TP, TK)

(1) 1 L plastic, unpreserved (white)

☐ DPW2: (DPW1 Plus Ca, Mg, Na, HCO<sub>3</sub>, CO<sub>3</sub>, SO<sub>4</sub>, Cl)

(1) 1 L plastic, unpreserved (white)

☐ Other

Date Sampled	Time Sampled	Field NH <sub>4</sub> -N (mg/L)	Received Temp °C
<u>8/16/23</u>	<u>3:50pm</u>		<u>2.1</u>
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

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





08/17/23 08:31

23H1587

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



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



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
<b>Electrical Conductivity</b>	<b>0.02</b>	mmhos/cm	0.01	1		08/18/23 17:57	SM 2510 B		BEH0919
Nitrate Nitrogen as NO3N	ND	mg/L	0.1	1	10	08/18/23 13:30	EPA 300.0		BEH0887

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

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

### Quality Control

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

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 #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

### Quality Control (Continued)

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

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

MV

**WATER WORK REQUEST**

Bill To: Acct No. 25831 Cons. 8

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

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

Copy to: mel\_tinamedeiros@yahoo.com

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

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

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

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

☒ QA/QC Document ☒ Copy of Chain ☒ RWQCB

**DESCRIPTION OF SAMPLES**

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

**CHAIN OF CUSTODY**

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

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

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

**Invoicing Information:**

**Medeiros Pricing 2023**

Sampling Hrs \_\_\_\_\_ Miles \_\_\_\_\_ Consulting \_\_\_\_\_

Shipping \_\_\_\_\_ In \_\_\_\_\_ Out \_\_\_\_\_

Am't Paid \_\_\_\_\_ Rec By \_\_\_\_\_ Check No. \_\_\_\_\_ Date \_\_\_\_\_

**DELLAVALLE LABORATORY, INC.**

1910 W. McKinley Avenue, Suite 110 • Fresno, CA 93728  
www.dellavallelab.com 559 233-6129 • 800 228-9896 • Fax 559 268-8174

No. of Samples 1 No. Bottles \_\_\_\_\_

Water Type: ☒ Tap Water ☐ Drinking ☐ Wastewater  
☐ Ground Water ☐ Mon. Well  
☐ Supply Water ☐ Other \_\_\_\_\_

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

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

Date Sampled	Time Sampled	Field NH <sub>4</sub> -N (mg/L)	Received Temp °C
<u>8/16/23</u>	<u>3:50</u>		<u>0.8</u>
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

☐ Other

Date Sampled	Time Sampled	Field NH <sub>4</sub> -N (mg/L)	Received Temp °C
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Signature \_\_\_\_\_

Sample received in cooler with ice?

☐ Yes ☐ No

crr:update 2020

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





08/17/23 08:38

23H1605

AN

<b>Shipping Information:</b> Shipped In <input type="checkbox"/> Picked-Up <input type="checkbox"/> Walk In <input type="checkbox"/> DLI Sampler <input checked="" type="checkbox"/> Other <input type="checkbox"/>										
<input type="checkbox"/> Samples refrigerated before pick up					<input type="checkbox"/> Picked up samples placed in Ice chest					
<b>Container:</b> Ice Chest <input checked="" type="checkbox"/> Box <input type="checkbox"/> None <input type="checkbox"/>					<b>Refrigerant:</b> Wet Ice <input checked="" type="checkbox"/> Blue Ice <input type="checkbox"/> None <input type="checkbox"/>					
Samples Preserved with $\text{HNO}_3$ or $\text{H}_2\text{SO}_4$ were:					<input type="checkbox"/> Received Preserved <input type="checkbox"/> Preserved Upon Receipt at Laboratory					
<b>Type of Container(s) Received</b>		<b>Sample Number</b>								
		1	2	3	4	5	6	7	8	9
<b>Sample Containers for Internal (DLI) Use</b> (Containers that go into the Lab)										
Plastics	100 mL sterile plastic $\text{Na}_2\text{S}_2\text{O}_3$ (Green)									
	250 mL unpreserved (White) Plastic									
	250 mL $\text{HNO}_3$ (Red) Plastic									
	* pH Value									
	250 mL $\text{H}_2\text{SO}_4$ (Yellow) Plastic									
	* pH Value									
	500 mL unpreserved (White) Plastic									
	1 L unpreserved (White) Plastic									
	1 L unpreserved (BOD) (Purple) Plastic									
Special	500mL unpreserved (White) Glass									
	PO4-P Kit									
Other:										
<b>Sample Containers for Subcontracted ("Send Out") Analyses</b> (Containers that go into the Subcontract ("Send Out") Refrigerator)										
Plastics	100 mL sterile plastic $\text{Na}_2\text{S}_2\text{O}_3$ (Green)									
	250 mL unpreserved (White) Plastic									
	250 mL $\text{HNO}_3$ (Red) Plastic									
	250 mL $\text{H}_2\text{SO}_4$ (Yellow) Plastic									
	500 mL $\text{HNO}_3$ (Red)									
	1 L unpreserved (White) Plastic									
	1 L unpreserved (BOD) (Purple) Plastic									
	1 L $\text{HNO}_3$ (Red)									
VOA Vials	40 mL VOA, $\text{Na}_2\text{S}_2\text{O}_3$ + MCAA (EPA531)									
	40 mL VOA, $\text{Na}_2\text{S}_2\text{O}_3$ (EPA547)									
	40mL AG VOA unpreserved (White) (Set of 3)									
	40 mL AG VOA, $\text{Na}_2\text{S}_2\text{O}_3$ (Green) (Set of 3)									
	40mL VOA, $\text{H}_3\text{PO}_4$ (Set of 3)									
	40 mL VOA, HCl (Blue) (Set of 3)									
	40 mL VOA, $\text{Na}_2\text{S}_2\text{O}_3$ (Green) (Set of 3)									
Glass	250 mL AG unpreserved (White)									
	250 mL AG $\text{H}_2\text{SO}_4$ (Yellow)									
	250 mL AG $\text{Na}_2\text{S}_2\text{O}_3$ (Green)									
	250 mL AG $\text{Na}_2\text{S}_2\text{O}_3$ + MCAA									
	500 mL glass unpreserved (White)									
	500 mL AG HCl (Blue)									
	1 L AG unpreserved (White)									
	1 L AG $\text{H}_2\text{SO}_4$ (Yellow)									
	1 L AG $\text{Na}_2\text{S}_2\text{O}_3$ (Green)									
1 L AG HCl (Blue)										
Special	$\text{Cr}^{6+}$ - 50mL Plastic w/Borate/ $\text{HCO}_3/\text{CO}_3$									
	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:										