

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:** Tony Cox Dairy #3

Physical address of dairy:

15410 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: 07/27/1977Regional Water Quality Control Board Basin Plan designation: Tulare Basin

County Assessor Parcel Number(s) for dairy facility:

0002-0240-0003-00000002-0240-0035-0000**B. OPERATORS**

Cox, Tony

Operator name: Cox, TonyTelephone no.: (559) 779-8145

Landline

Cellular

1509 Muscat AVE

Mailing Address Number and Street

Hanford

City

CA

State

93230

Zip Code

C. OWNERS

Maciel, David

Legal owner name: Maciel, DavidTelephone no.: (559) 381-7428

Landline

Cellular

15410 Excelsior AVE

Mailing Address Number and Street

Hanford

City

CA

State

93230

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	0	0	0	0	0
Number under roof	0	0	0	0	0	0
Maximum number	850	100	200	200	0	0
Average number	500	0	100	100	0	0
Avg live weight (lbs)	1,200	1,300	1,000	800		

Predominant milk cow breed: Holstein

Average milk production: 64 pounds per cow per day

B. MANURE GENERATED

Total manure excreted by the herd: 14,496.53 tons per reporting period

Total nitrogen from manure: 182,066.67 lbs per reporting period

After ammonia losses (30% loss applied): 127,446.67 lbs per reporting period

Total phosphorus from manure: 30,754.48 lbs per reporting period

Total potassium from manure: 93,783.61 lbs per reporting period

Total salt from manure: 235,425.00 lbs per reporting period

C. PROCESS WASTEWATER GENERATED

Process wastewater generated: 76,810,000 gallons

Total nitrogen generated: 185,544.08 lbs

Total phosphorus generated: 9,601.91 lbs

Total potassium generated: 117,304.00 lbs

Total salt generated: 807,737.75 lbs

76,810,000 gallons applied
+ 0 gallons exported
- 0 gallons imported
= 76,810,000 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 (%)
10/25/2023	Corral solids	3,000.00 <i>ton</i>	As-is	26.4		9,000.00	5,700.00	18,700.00		55.90

No liquid nutrient exports entered.

Material type	Total N (lbs)	Total P (lbs)	Total K (lbs)	Total salt (lbs)
Dry manure	54,000.00	34,200.00	112,200.00	2,468,544.00
Process wastewater	0.00	0.00	0.00	0.00
Total exports for all materials	54,000.00	34,200.00	112,200.00	2,468,544.00

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
Field 1	95	95	2	process wastewater	X002-X240-X003-XXXX
Field 2	30	30	2	process wastewater	X002-X240-X003-XXXX
Field 3	76	76	2	process wastewater	X002-X240-X003-XXXX
Field 4	15	15	2	process wastewater	X002-X240-X003-XXXX
Field 5	56	56	2	process wastewater	X002-X240-X003-XXXX
Field 6	74	74	2	process wastewater	X002-X240-X032-XXXX X002-X240-X035-XXXX
Field 8	48	48	0	none	X006-X010-X062-XXXX
Field 9	18	18	0	none	X006-X010-X062-XXXX
Totals for areas that were used for application	346	346	12		
Totals for areas that were not used for application	66	66	0		
Land application area totals	412	412	12		

B. CROPS AND HARVESTS

Field 1										
Field name: <u>Field 1</u>										
11/01/2022: Wheat, silage, boot stage										
Crop: <u>Wheat, silage, boot stage</u>						Acres planted: <u>95</u>		Plant date: <u>11/01/2022</u>		
Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)	
05/10/2023	1,543.60 ton	Dry-weight		63.4	19,100.00	3,600.00	29,200.00		9.89	
	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	227.17	42.82	347.30	1,176.30					

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

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

Field 1

06/01/2023: Corn, silage

Crop: Corn, silage Acres planted: 95 Plant date: 06/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/11/2023	2,721.40 ton	Dry-weight		73.8	19,400.00	2,600.00	26,400.00		8.05

	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	28.65	291.21	39.03	396.28	1,208.36

Field 2

Field name: Field 2

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

Crop: Wheat, silage, boot stage Acres planted: 30 Plant date: 11/01/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/10/2023	502.30 ton	Dry-weight		65.3	18,500.00	3,200.00	24,500.00		9.25

	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	16.74	214.97	37.18	284.69	1,074.84

06/01/2023: Corn, silage

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

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/11/2023	877.20 ton	Dry-weight		70.5	16,500.00	2,700.00	20,800.00		6.38

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	28.00	224.00	42.00	184.80	0.00
Total actual harvest content	29.24	284.65	46.58	358.83	1,100.65

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

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

Field 3

Field name: Field 3

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

Crop: Wheat, silage, boot stage Acres planted: 76 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 (%)
05/10/2023	1,344.60 <i>ton</i>	Dry-weight		66.2	14,500.00	4,200.00	28,500.00		10.32

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	256.00	44.80	192.00	0.00
Total actual harvest content	17.69	173.42	50.23	340.86	1,234.26

06/01/2023: Corn, silage

Crop: Corn, silage Acres planted: 76 Plant date: 06/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/11/2023	2,304.50 <i>ton</i>	Dry-weight		69.0	17,700.00	3,100.00	18,900.00		5.51

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	28.00	224.00	42.00	184.80	0.00
Total actual harvest content	30.32	332.76	58.28	355.32	1,035.87

Field 4

Field name: Field 4

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

Crop: Wheat, silage, boot stage Acres planted: 15 Plant date: 11/01/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/10/2023	266.10 <i>ton</i>	Dry-weight		67.2	18,100.00	3,500.00	25,000.00		10.10

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	256.00	44.80	192.00	0.00
Total actual harvest content	17.74	210.64	40.73	290.94	1,175.38

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

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

Field 4

06/01/2023: Corn, silage

Crop: Corn, silage Acres planted: 15 Plant date: 06/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/11/2023	477.20 ton	Dry-weight		68.3	23,200.00	2,800.00	19,300.00		8.08

	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	31.81	467.94	56.48	389.27	1,629.71

Field 5

Field name: Field 5

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

Crop: Wheat, silage, boot stage Acres planted: 56 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 (%)
05/10/2023	955.70 ton	Dry-weight		65.2	16,500.00	3,600.00	21,300.00		9.75

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	16.00	256.00	44.80	192.00	0.00
Total actual harvest content	17.07	195.99	42.76	253.00	1,158.10

06/01/2023: Corn, silage

Crop: Corn, silage Acres planted: 56 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 (%)
10/05/2023	1,689.30 ton	Dry-weight		67.4	24,500.00	2,500.00	15,700.00		6.65

	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	30.17	481.87	49.17	308.79	1,307.94

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

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

Field 6

Field name: Field 6

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

Crop: Wheat, silage, boot stage Acres planted: 74 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 (%)
05/10/2023	1,245.20 <i>ton</i>	Dry-weight		66.4	17,200.00	3,400.00	23,000.00		9.88

	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	16.83	194.49	38.45	260.08	1,117.21

06/01/2023: Corn, silage

Crop: Corn, silage Acres planted: 74 Plant date: 06/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/11/2023	2,156.20 <i>ton</i>	Dry-weight		67.4	19,600.00	3,000.00	17,300.00		5.92

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	28.00	224.00	42.00	184.80	0.00
Total actual harvest content	29.14	372.36	56.99	328.66	1,124.67

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

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

NUTRIENT BUDGET

A. LAND APPLICATIONS

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

Field name: Field 1

Crop: Wheat, silage, boot stage

Plant date: 11/01/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
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	125.52	10.51	62.53	343.26	2,750,000.00 <i>gal</i>
Application event totals		125.52	10.51	62.53	343.26	
01/18/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	7.00	6,640,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	7.00	
02/16/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	125.52	10.51	62.53	343.26	2,750,000.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	7.00	6,640,000.00 <i>gal</i>
Application event totals		125.52	10.51	62.53	350.26	
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
Canal	Surface water	0.00	0.00	0.00	7.00	6,640,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	7.00	

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

Field name: Field 1

Crop: Corn, silage

Plant date: 06/01/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
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Annual Report - General Order No. R5-2007-0035

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

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

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following																												
06/28/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation																												
<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>13.32</td><td>12,640,000.00 <i>gal</i></td></tr><tr><td>Application event totals</td><td></td><td>0.00</td><td>0.00</td><td>0.00</td><td>13.32</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	13.32	12,640,000.00 <i>gal</i>	Application event totals		0.00	0.00	0.00	13.32								
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07/08/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation																												
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Application event totals		40.68	1.19	29.57	236.90																											
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>40.68</td><td>1.19</td><td>29.57</td><td>223.58</td><td>2,100,000.00 <i>gal</i></td></tr><tr><td>Canal</td><td>Surface water</td><td>0.00</td><td>0.00</td><td>0.00</td><td>13.32</td><td>12,640,000.00 <i>gal</i></td></tr><tr><td>Application event totals</td><td></td><td>40.68</td><td>1.19</td><td>29.57</td><td>236.90</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	40.68	1.19	29.57	223.58	2,100,000.00 <i>gal</i>	Canal	Surface water	0.00	0.00	0.00	13.32	12,640,000.00 <i>gal</i>	Application event totals		40.68	1.19	29.57	236.90	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount																										
WW	Process wastewater	40.68	1.19	29.57	223.58	2,100,000.00 <i>gal</i>																										
Canal	Surface water	0.00	0.00	0.00	13.32	12,640,000.00 <i>gal</i>																										
Application event totals		40.68	1.19	29.57	236.90																											

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

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

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

Application date	Application method	Precipitation 24 hours prior		Precipitation during application			Precipitation 24 hours following	
08/18/2023	Surface (irrigation)	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
WW		Process wastewater	40.68	1.19	29.57	223.58	2,100,000.00 <i>gal</i>	
Canal		Surface water	0.00	0.00	0.00	13.32	12,640,000.00 <i>gal</i>	
Application event totals			40.68	1.19	29.57	236.90		
08/22/2023	Surface (irrigation)	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
WW		Process wastewater	40.68	1.19	29.57	223.58	2,100,000.00 <i>gal</i>	
Canal		Surface water	0.00	0.00	0.00	13.32	12,640,000.00 <i>gal</i>	
Application event totals			40.68	1.19	29.57	236.90		
09/01/2023	Surface (irrigation)	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
WW		Process wastewater	40.68	1.19	29.57	223.58	2,100,000.00 <i>gal</i>	
Canal		Surface water	0.00	0.00	0.00	13.32	12,640,000.00 <i>gal</i>	
Application event totals			40.68	1.19	29.57	236.90		

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

Field name: Field 2

Crop: Wheat, silage, boot stage

Plant date: 11/01/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
12/28/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	137.32	11.50	68.40	375.51	950,000.00 <i>gal</i>
Application event totals		137.32	11.50	68.40	375.51	

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

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

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

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
02/16/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	137.32	11.50	68.40	375.51	950,000.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	9.35	2,800,000.00 <i>gal</i>
Application event totals		137.32	11.50	68.40	384.86	
03/16/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	9.35	2,800,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	9.35	

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

Field name: Field 2

Crop: Corn, silage

Plant date: 06/01/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
06/27/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	15.35	4,600,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	15.35	
07/07/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	61.96	1.81	45.04	340.51	1,010,000.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	15.35	4,600,000.00 <i>gal</i>
Application event totals		61.96	1.81	45.04	355.86	

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

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

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

Application date	Application method	Precipitation 24 hours prior		Precipitation during application			Precipitation 24 hours following	
07/27/2023	Surface (irrigation)	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
WW		Process wastewater	61.96	1.81	45.04	340.51	1,010,000.00 <i>gal</i>	
Canal		Surface water	0.00	0.00	0.00	15.35	4,600,000.00 <i>gal</i>	
Application event totals			61.96	1.81	45.04	355.86		
08/07/2023	Surface (irrigation)	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
WW		Process wastewater	61.96	1.81	45.04	340.51	1,010,000.00 <i>gal</i>	
Canal		Surface water	0.00	0.00	0.00	15.35	4,600,000.00 <i>gal</i>	
Application event totals			61.96	1.81	45.04	355.86		
08/17/2023	Surface (irrigation)	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
WW		Process wastewater	61.96	1.81	45.04	340.51	1,010,000.00 <i>gal</i>	
Canal		Surface water	0.00	0.00	0.00	15.35	4,600,000.00 <i>gal</i>	
Application event totals			61.96	1.81	45.04	355.86		
08/24/2023	Surface (irrigation)	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
WW		Process wastewater	61.96	1.81	45.04	340.51	1,010,000.00 <i>gal</i>	
Canal		Surface water	0.00	0.00	0.00	15.35	4,600,000.00 <i>gal</i>	
Application event totals			61.96	1.81	45.04	355.86		
09/02/2023	Surface (irrigation)	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
Canal		Surface water	0.00	0.00	0.00	15.35	4,600,000.00 <i>gal</i>	
Application event totals			0.00	0.00	0.00	15.35		

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

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

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

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

Field name: Field 3

Crop: Wheat, silage, boot stage

Plant date: 11/01/2022

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	69.04	5.78	34.39	188.80	1,210,000.00 gal
Application event totals		69.04	5.78	34.39	188.80	
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	68.47	5.73	34.11	187.24	1,200,000.00 gal
Canal	Surface water	0.00	0.00	0.00	14.19	10,770,000.00 gal
Application event totals		68.47	5.73	34.11	201.43	
03/16/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	68.47	5.73	34.11	187.24	1,200,000.00 gal
Canal	Surface water	0.00	0.00	0.00	14.19	10,770,000.00 gal
Application event totals		68.47	5.73	34.11	201.43	

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

Field name: Field 3

Crop: Corn, silage

Plant date: 06/01/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
06/26/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	14.19	10,770,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	14.19	

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

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

Field 3 - 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	50.86	1.48	36.96	279.47	2,100,000.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	1.42	1,077,000.00 <i>gal</i>
Application event totals		50.86	1.48	36.96	280.89	
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
WW	Process wastewater	50.86	1.48	36.96	279.47	2,100,000.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	14.19	10,770,000.00 <i>gal</i>
Application event totals		50.86	1.48	36.96	293.66	
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	14.19	10,770,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	14.19	
08/06/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	50.86	1.48	36.96	279.47	2,100,000.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	14.19	10,770,000.00 <i>gal</i>
Application event totals		50.86	1.48	36.96	293.66	
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	50.86	1.48	36.96	279.47	2,100,000.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	14.19	10,770,000.00 <i>gal</i>
Application event totals		50.86	1.48	36.96	293.66	

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

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

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

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
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
WW	Process wastewater	50.86	1.48	36.96	279.47	2,100,000.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	14.19	10,770,000.00 <i>gal</i>
Application event totals		50.86	1.48	36.96	293.66	
09/03/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	14.19	10,770,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	14.19	

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

Field name: Field 4

Crop: Wheat, silage, boot stage

Plant date: 11/01/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
12/29/2022	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	130.09	10.89	64.80	355.75	450,000.00 <i>gal</i>
Application event totals		130.09	10.89	64.80	355.75	
01/25/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	9.35	1,400,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	9.35	

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

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

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

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
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	130.09	10.89	64.80	355.75	450,000.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	6.68	1,000,000.00 <i>gal</i>
Application event totals		130.09	10.89	64.80	362.42	
03/23/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	6.68	1,000,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	6.68	

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

Field name: Field 4

Crop: Corn, silage

Plant date: 06/01/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
06/28/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	14.02	2,100,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	14.02	

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	73.62	2.15	53.51	404.57	600,000.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	14.02	2,100,000.00 <i>gal</i>
Application event totals		73.62	2.15	53.51	418.59	

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

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

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

Application date	Application method	Precipitation 24 hours prior		Precipitation during application			Precipitation 24 hours following	
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	
WW		Process wastewater	73.62	2.15	53.51	404.57	600,000.00 <i>gal</i>	
Canal		Surface water	0.00	0.00	0.00	14.02	2,100,000.00 <i>gal</i>	
Application event totals			73.62	2.15	53.51	418.59		
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	73.62	2.15	53.51	404.57	600,000.00 <i>gal</i>	
Canal		Surface water	0.00	0.00	0.00	14.02	2,100,000.00 <i>gal</i>	
Application event totals			73.62	2.15	53.51	418.59		
08/08/2023	Surface (irrigation)	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
WW		Process wastewater	73.62	2.15	53.51	404.57	600,000.00 <i>gal</i>	
Canal		Surface water	0.00	0.00	0.00	14.02	2,100,000.00 <i>gal</i>	
Application event totals			73.62	2.15	53.51	418.59		
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	73.62	2.15	53.51	404.57	600,000.00 <i>gal</i>	
Canal		Surface water	0.00	0.00	0.00	14.02	2,100,000.00 <i>gal</i>	
Application event totals			73.62	2.15	53.51	418.59		
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	73.62	2.15	53.51	404.57	600,000.00 <i>gal</i>	
Canal		Surface water	0.00	0.00	0.00	14.02	2,100,000.00 <i>gal</i>	
Application event totals			73.62	2.15	53.51	418.59		

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

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

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

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following
09/02/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	14.02	2,100,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	14.02	

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

Field name: Field 5

Crop: Wheat, silage, boot stage

Plant date: 11/01/2022

Application date	Application method	Precipitation 24 hours prior		Precipitation during application			Precipitation 24 hours following	
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	73.56	6.16	36.64	201.17	950,000.00 <i>gal</i>	
Application event totals			73.56	6.16	36.64	201.17		
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	93.70	7.84	46.67	256.22	1,210,000.00 <i>gal</i>	
Canal		Surface water	0.00	0.00	0.00	9.08	5,077,000.00 <i>gal</i>	
Application event totals			93.70	7.84	46.67	265.30		
03/12/2023	Surface (irrigation)	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
WW		Process wastewater	93.70	7.84	46.67	256.22	1,210,000.00 <i>gal</i>	
Canal		Surface water	0.00	0.00	0.00	9.08	5,077,000.00 <i>gal</i>	
Application event totals			93.70	7.84	46.67	265.30		

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

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

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

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

Field name: Field 5

Crop: Corn, silage

Plant date: 06/01/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
06/27/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	14.44	8,077,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	14.44	
07/07/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	69.35	2.02	50.40	381.09	2,110,000.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	14.44	8,077,000.00 <i>gal</i>
Application event totals		69.35	2.02	50.40	395.53	
07/17/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	69.35	2.02	50.40	381.09	2,110,000.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	14.44	8,077,000.00 <i>gal</i>
Application event totals		69.35	2.02	50.40	395.53	
07/27/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	69.35	2.02	50.40	381.09	2,110,000.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	14.44	8,077,000.00 <i>gal</i>
Application event totals		69.35	2.02	50.40	395.53	
08/07/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	14.44	8,077,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	14.44	

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

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

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

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
08/17/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	69.35	2.02	50.40	381.09	2,110,000.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	14.44	8,077,000.00 <i>gal</i>
Application event totals		69.35	2.02	50.40	395.53	
08/22/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	69.35	2.02	50.40	381.09	2,110,000.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	14.44	8,077,000.00 <i>gal</i>
Application event totals		69.35	2.02	50.40	395.53	
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	69.35	2.02	50.40	381.09	2,110,000.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	14.44	8,077,000.00 <i>gal</i>
Application event totals		69.35	2.02	50.40	395.53	

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

Field name: Field 6

Crop: Wheat, silage, boot stage

Plant date: 11/01/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
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	70.90	5.94	35.32	193.90	1,210,000.00 <i>gal</i>
Application event totals		70.90	5.94	35.32	193.90	

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

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

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

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
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	70.90	5.94	35.32	193.90	1,210,000.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	10.93	8,077,000.00 <i>gal</i>
Application event totals		70.90	5.94	35.32	204.83	
03/15/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	10.93	8,077,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	10.93	

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

Field name: Field 6

Crop: Corn, silage

Plant date: 06/01/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application	Precipitation 24 hours following		
06/30/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal	Surface water	0.00	0.00	0.00	14.57	10,770,000.00 <i>gal</i>
Application event totals		0.00	0.00	0.00	14.57	
07/10/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation		
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
WW	Process wastewater	52.23	1.53	37.96	287.02	2,100,000.00 <i>gal</i>
Canal	Surface water	0.00	0.00	0.00	14.57	10,770,000.00 <i>gal</i>
Application event totals		52.23	1.53	37.96	301.60	

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

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

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

Application date	Application method	Precipitation 24 hours prior		Precipitation during application			Precipitation 24 hours following	
07/20/2023	Surface (irrigation)	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
WW		Process wastewater	52.23	1.53	37.96	287.02	2,100,000.00 <i>gal</i>	
Canal		Surface water	0.00	0.00	0.00	14.57	10,770,000.00 <i>gal</i>	
Application event totals			52.23	1.53	37.96	301.60		
07/30/2023	Surface (irrigation)	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
WW		Process wastewater	52.23	1.53	37.96	287.02	2,100,000.00 <i>gal</i>	
Canal		Surface water	0.00	0.00	0.00	14.57	10,770,000.00 <i>gal</i>	
Application event totals			52.23	1.53	37.96	301.60		
08/10/2023	Surface (irrigation)	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
WW		Process wastewater	52.23	1.53	37.96	287.02	2,100,000.00 <i>gal</i>	
Canal		Surface water	0.00	0.00	0.00	14.57	10,770,000.00 <i>gal</i>	
Application event totals			52.23	1.53	37.96	301.60		
08/20/2023	Surface (irrigation)	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
WW		Process wastewater	52.23	1.53	37.96	287.02	2,100,000.00 <i>gal</i>	
Canal		Surface water	0.00	0.00	0.00	14.57	10,770,000.00 <i>gal</i>	
Application event totals			52.23	1.53	37.96	301.60		
08/27/2023	Surface (irrigation)	No precipitation		No precipitation			No precipitation	
Source description		Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount	
WW		Process wastewater	52.23	1.53	37.96	287.02	2,100,000.00 <i>gal</i>	
Canal		Surface water	0.00	0.00	0.00	14.57	10,770,000.00 <i>gal</i>	
Application event totals			52.23	1.53	37.96	301.60		

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

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

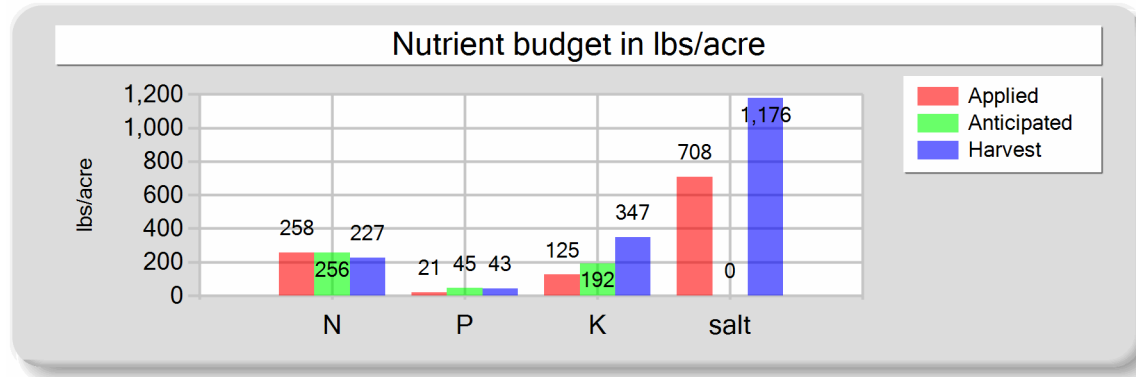
B. NUTRIENT BUDGET

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

Field name: Field 1

Crop: Wheat, silage, boot stage

Plant date: 11/01/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	19,920,000.00 gallons
Plowdown credit	0.00	0.00	0.00	0.00	733.59 acre-inches
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	7.72 inches/acre
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	251.05	21.02	125.05	686.53	Process wastewater applied
Fresh water	0.00	0.00	0.00	21.00	5,500,000.00 gallons
Atmospheric deposition	7.00	0.00	0.00	0.00	202.55 acre-inches
Total nutrients applied	258.05	21.02	125.05	707.53	2.13 inches/acre
Anticipated crop nutrient removal	256.00	44.80	192.00	0.00	
Actual crop nutrient removal	227.17	42.82	347.30	1,176.30	Total harvests for the crop
Nutrient balance	30.88	-21.80	-222.25	-468.77	1 harvests
Applied to removed ratio	1.14	0.49	0.36	0.60	

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

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

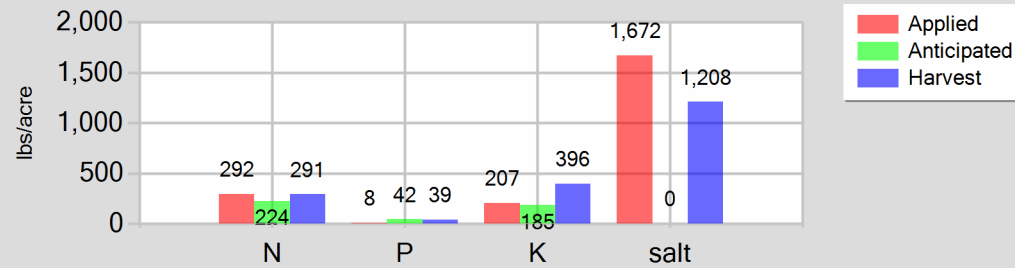
Field 1 - 06/01/2023: Corn, silage

Field name: Field 1

Crop: Corn, silage

Plant date: 06/01/2023

Nutrient budget in lbs/acre



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	284.79	8.32	206.99	1,565.03
Fresh water	0.00	0.00	0.00	106.59
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	291.79	8.32	206.99	1,671.62
Anticipated crop nutrient removal	224.00	42.00	184.80	0.00
Actual crop nutrient removal	291.21	39.03	396.28	1,208.36
Nutrient balance	0.58	-30.71	-189.29	463.26
Applied to removed ratio	1.00	0.21	0.52	1.38

Fresh water applied
101,120,000.00 <i>gallons</i>
3,723.91 <i>acre-inches</i>
39.20 <i>inches/acre</i>
Process wastewater applied
14,700,000.00 <i>gallons</i>
541.35 <i>acre-inches</i>
5.70 <i>inches/acre</i>
Total harvests for the crop
1 <i>harvests</i>

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

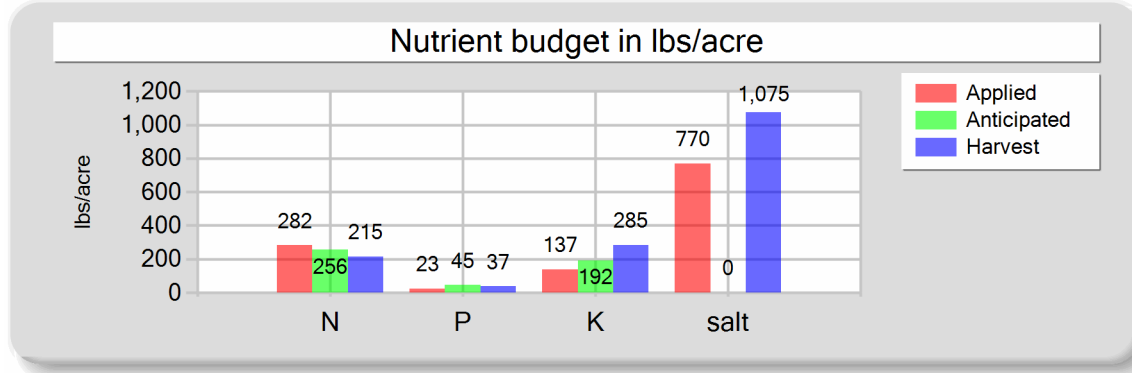
Reporting period 01/01/2023 to 12/31/2023.

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

Field name: Field 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	274.63	22.99	136.80	751.02
Fresh water	0.00	0.00	0.00	18.69
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	281.63	22.99	136.80	769.71
Anticipated crop nutrient removal	256.00	44.80	192.00	0.00
Actual crop nutrient removal	214.97	37.18	284.69	1,074.84
Nutrient balance	66.67	-14.19	-147.89	-305.12
Applied to removed ratio	1.31	0.62	0.48	0.72

Fresh water applied
5,600,000.00 <i>gallons</i>
206.23 <i>acre-inches</i>
6.87 <i>inches/acre</i>

Process wastewater applied
1,900,000.00 <i>gallons</i>
69.97 <i>acre-inches</i>
2.33 <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.

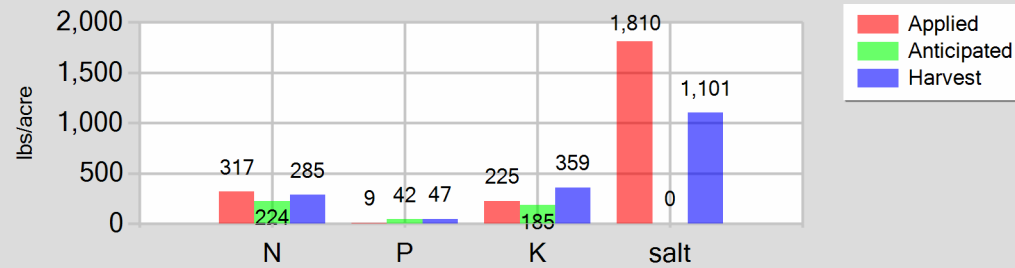
Field 2 - 06/01/2023: Corn, silage

Field name: Field 2

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	309.82	9.05	225.18	1,702.55
Fresh water	0.00	0.00	0.00	107.48
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	316.82	9.05	225.18	1,810.03
Anticipated crop nutrient removal	224.00	42.00	184.80	0.00
Actual crop nutrient removal	284.65	46.58	358.83	1,100.65
Nutrient balance	32.16	-37.53	-133.65	709.38
Applied to removed ratio	1.11	0.19	0.63	1.64

Fresh water applied
32,200,000.00 <i>gallons</i>
1,185.82 <i>acre-inches</i>
39.53 <i>inches/acre</i>

Process wastewater applied
5,050,000.00 <i>gallons</i>
185.97 <i>acre-inches</i>
6.20 <i>inches/acre</i>

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

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

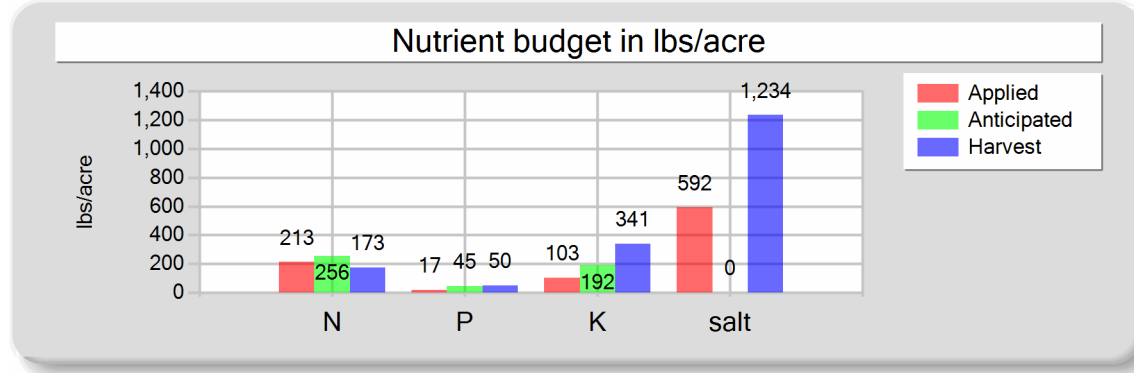
Reporting period 01/01/2023 to 12/31/2023.

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

Field name: Field 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)	Fresh water applied
Existing soil nutrient content	0.00	0.00	0.00	0.00	21,540,000.00 <i>gallons</i>
Plowdown credit	0.00	0.00	0.00	0.00	793.24 <i>acre-inches</i>
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	10.44 <i>inches/acre</i>
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	205.97	17.24	102.60	563.27	Process wastewater applied
Fresh water	0.00	0.00	0.00	28.38	3,610,000.00 <i>gallons</i>
Atmospheric deposition	7.00	0.00	0.00	0.00	132.94 <i>acre-inches</i>
Total nutrients applied	212.97	17.24	102.60	591.65	1.75 <i>inches/acre</i>
Anticipated crop nutrient removal	256.00	44.80	192.00	0.00	
Actual crop nutrient removal	173.42	50.23	340.86	1,234.26	Total harvests for the crop
Nutrient balance	39.56	-32.99	-238.26	-642.61	1 <i>harvests</i>
Applied to removed ratio	1.23	0.34	0.30	0.48	

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

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

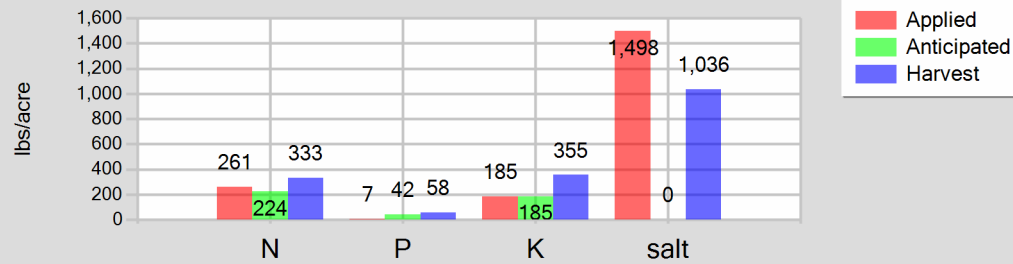
Field 3 - 06/01/2023: Corn, silage

Field name: Field 3

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	254.28	7.42	184.81	1,397.35
Fresh water	0.00	0.00	0.00	100.76
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	261.28	7.42	184.81	1,498.10
Anticipated crop nutrient removal	224.00	42.00	184.80	0.00
Actual crop nutrient removal	332.76	58.28	355.32	1,035.87
Nutrient balance	-71.48	-50.85	-170.50	462.23
Applied to removed ratio	0.79	0.13	0.52	1.45

Fresh water applied
76,467,000.00 gallons
2,816.02 acre-inches
37.05 inches/acre
Process wastewater applied
10,500,000.00 gallons
386.68 acre-inches
5.09 inches/acre
Total harvests for the crop
1 harvests

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

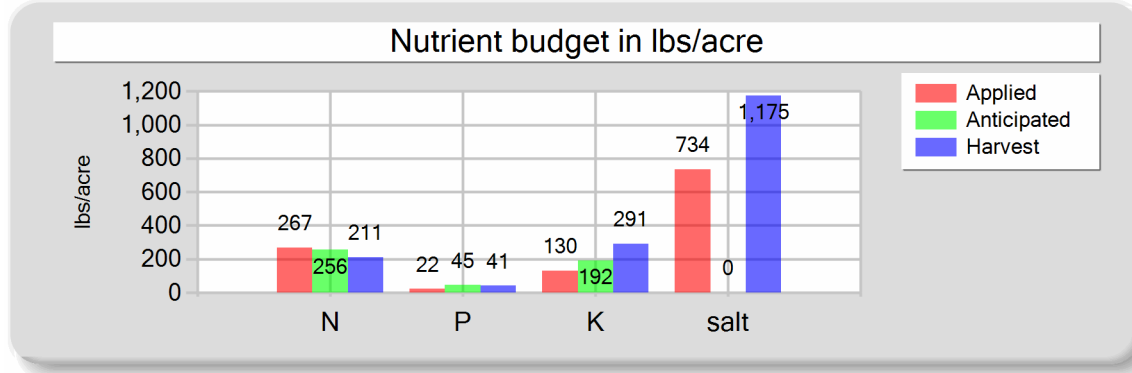
Reporting period 01/01/2023 to 12/31/2023.

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

Field name: Field 4

Crop: Wheat, silage, boot stage

Plant date: 11/01/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	260.18	21.78	129.60	711.49
Fresh water	0.00	0.00	0.00	22.70
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	267.18	21.78	129.60	734.19
Anticipated crop nutrient removal	256.00	44.80	192.00	0.00
Actual crop nutrient removal	210.64	40.73	290.94	1,175.38
Nutrient balance	56.54	-18.95	-161.33	-441.19
Applied to removed ratio	1.27	0.53	0.45	0.62

Fresh water applied
3,400,000.00 <i>gallons</i>
125.21 <i>acre-inches</i>
8.35 <i>inches/acre</i>

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

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

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

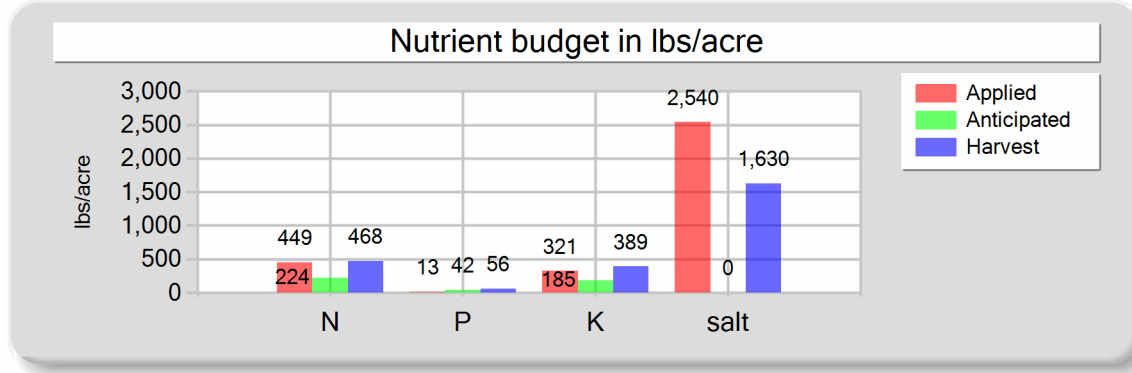
Reporting period 01/01/2023 to 12/31/2023.

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

Field name: Field 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	441.72	12.90	321.05	2,427.39
Fresh water	0.00	0.00	0.00	112.16
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	448.72	12.90	321.05	2,539.55
Anticipated crop nutrient removal	224.00	42.00	184.80	0.00
Actual crop nutrient removal	467.94	56.48	389.27	1,629.71
Nutrient balance	-19.22	-43.58	-68.23	909.84
Applied to removed ratio	0.96	0.23	0.82	1.56

Fresh water applied
16,800,000.00 <i>gallons</i>
618.69 <i>acre-inches</i>
41.25 <i>inches/acre</i>

Process wastewater applied
3,600,000.00 <i>gallons</i>
132.58 <i>acre-inches</i>
8.84 <i>inches/acre</i>

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

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

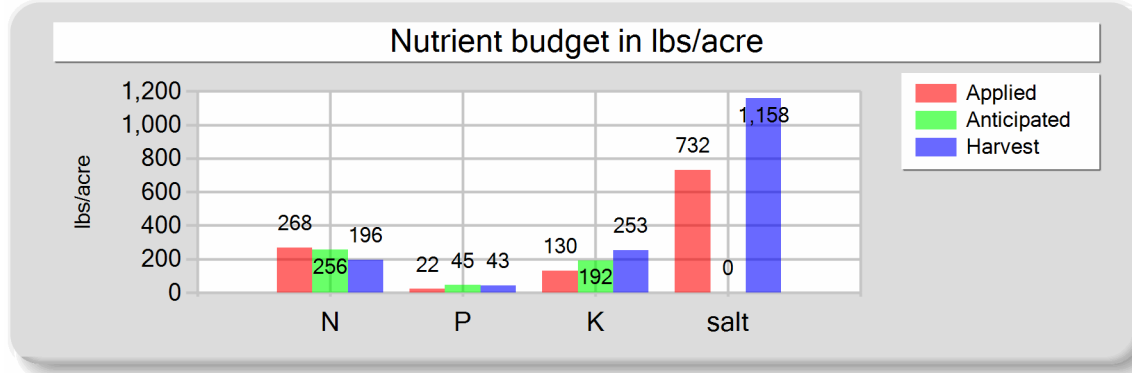
Reporting period 01/01/2023 to 12/31/2023.

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

Field name: Field 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	260.95	21.85	129.99	713.61
Fresh water	0.00	0.00	0.00	18.16
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	267.95	21.85	129.99	731.77
Anticipated crop nutrient removal	256.00	44.80	192.00	0.00
Actual crop nutrient removal	195.99	42.76	253.00	1,158.10
Nutrient balance	71.97	-20.92	-123.01	-426.33
Applied to removed ratio	1.37	0.51	0.51	0.63

Fresh water applied
10,154,000.00 <i>gallons</i>
373.94 <i>acre-inches</i>
6.68 <i>inches/acre</i>

Process wastewater applied
3,370,000.00 <i>gallons</i>
124.11 <i>acre-inches</i>
2.22 <i>inches/acre</i>

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

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

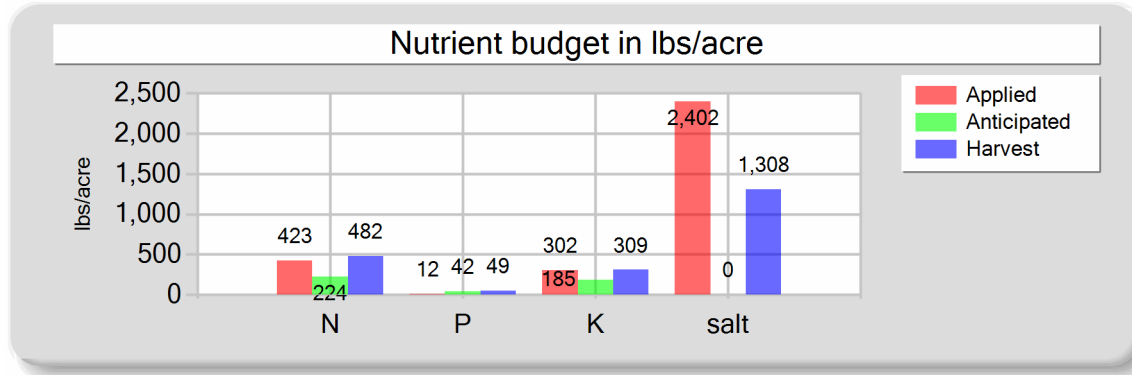
Reporting period 01/01/2023 to 12/31/2023.

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

Field name: Field 5

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	64,616,000.00 <i>gallons</i>
Plowdown credit	0.00	0.00	0.00	0.00	2,379.59 <i>acre-inches</i>
Commercial fertilizer / Other	0.00	0.00	0.00	0.00	42.49 <i>inches/acre</i>
Dry manure	0.00	0.00	0.00	0.00	
Process wastewater	416.08	12.15	302.42	2,286.52	Process wastewater applied
Fresh water	0.00	0.00	0.00	115.55	12,660,000.00 <i>gallons</i>
Atmospheric deposition	7.00	0.00	0.00	0.00	466.22 <i>acre-inches</i>
Total nutrients applied	423.08	12.15	302.42	2,402.07	8.33 <i>inches/acre</i>
Anticipated crop nutrient removal	224.00	42.00	184.80	0.00	
Actual crop nutrient removal	481.87	49.17	308.79	1,307.94	Total harvests for the crop
Nutrient balance	-58.79	-37.02	-6.38	1,094.12	1 <i>harvests</i>
Applied to removed ratio	0.88	0.25	0.98	1.84	

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

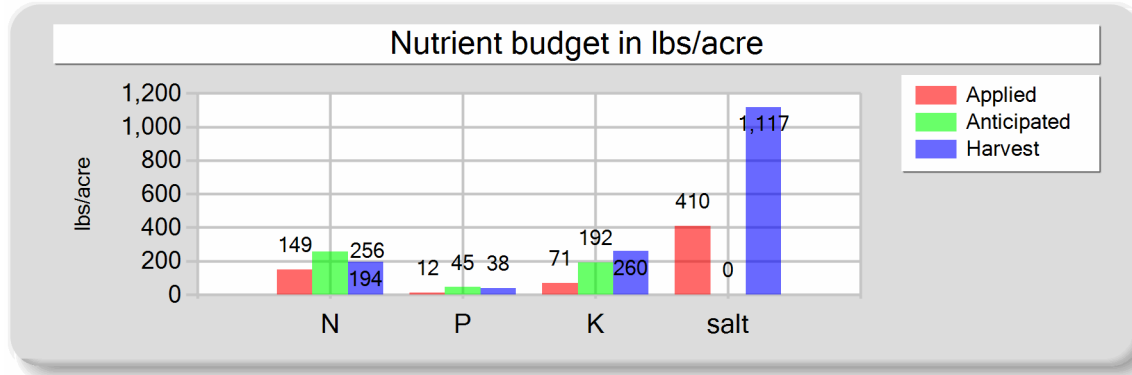
Reporting period 01/01/2023 to 12/31/2023.

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

Field name: Field 6

Crop: Wheat, silage, boot stage

Plant date: 11/01/2022



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	141.81	11.87	70.64	387.80
Fresh water	0.00	0.00	0.00	21.86
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	148.81	11.87	70.64	409.66
Anticipated crop nutrient removal	256.00	44.80	192.00	0.00
Actual crop nutrient removal	194.49	38.45	260.08	1,117.21
Nutrient balance	-45.68	-26.58	-189.44	-707.55
Applied to removed ratio	0.77	0.31	0.27	0.37

Fresh water applied
16,154,000.00 <i>gallons</i>
594.90 <i>acre-inches</i>
8.04 <i>inches/acre</i>

Process wastewater applied
2,420,000.00 <i>gallons</i>
89.12 <i>acre-inches</i>
1.20 <i>inches/acre</i>

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

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

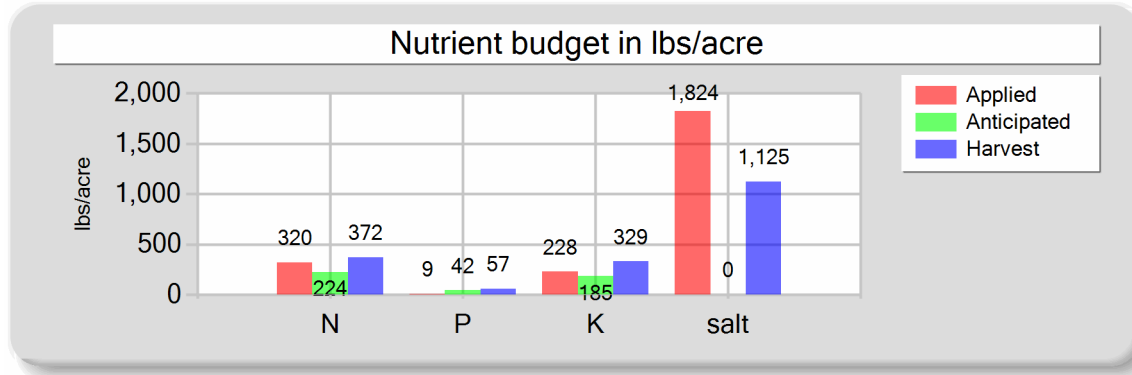
Reporting period 01/01/2023 to 12/31/2023.

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

Field name: Field 6

Crop: Corn, silage

Plant date: 06/01/2023



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
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	313.38	9.15	227.77	1,722.14
Fresh water	0.00	0.00	0.00	102.02
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	320.38	9.15	227.77	1,824.16
Anticipated crop nutrient removal	224.00	42.00	184.80	0.00
Actual crop nutrient removal	372.36	56.99	328.66	1,124.67
Nutrient balance	-51.98	-47.84	-100.89	699.48
Applied to removed ratio	0.86	0.16	0.69	1.62

Fresh water applied
75,390,000.00 <i>gallons</i>
2,776.36 <i>acre-inches</i>
37.52 <i>inches/acre</i>

Process wastewater applied
12,600,000.00 <i>gallons</i>
464.02 <i>acre-inches</i>
6.27 <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.

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: 16.9 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	12,000.00	6,500.00	22,900.00	15,500.00	8,900.00	8,000.00	4,900.00	799.50		70.10
DL	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00		1.00

Dry Manure

Sample and source description: Dry Manure

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

Moisture: 26.4 %

	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	9,000.00	5,700.00	18,700.00							55.90
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: 7.53

	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	519.63	68.38	0.00	0.00	43.50	258.84								2,220.00	1,421
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: 7.73

	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	220.55	19.79	0.00	0.00	6.44	160.30	6.60	2.50	6.80	13.50	0.00	1.00	6.10	1,895.00	1,212
DL	67.00	0.57	0.01	0.01	0.64	0.01	0.02	0.01	0.01	0.10	0.10	0.02	0.01	1.00	1

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: 7.19

	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	139.70	76.48	0.00	0.00	20.44	120.04								1,285.00	822
DL	67.00	0.57	0.01	0.01	0.64	0.01								1.00	19

C. FRESH WATER ANALYSES

Barn

Barn

Sample description: Barn

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

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	0.00										236.00	
DL	0.10										1.00	

Canal

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

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

Canal

Canal

Sample description: Canal

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

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

D. SOIL ANALYSES

No soil analyses entered.

E. PLANT TISSUE ANALYSES

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

1

Sample and source description: 1

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

Moisture: 63.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	19,100.00	3,600.00	29,200.00		9.89
DL	100.00	100.00	100.00		1.00

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

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

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

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

1

Sample and source description: 1

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

Moisture: 73.8 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	19,400.00	2,600.00	26,400.00		8.05
DL	100.00	100.00	100.00		1.00

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

2

Sample and source description: 2

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

Moisture: 65.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	18,500.00	3,200.00	24,500.00		9.25
DL	100.00	100.00	100.00		1.00

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

2

Sample and source description: 2

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

Moisture: 70.5 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	16,500.00	2,700.00	20,800.00		6.38
DL	100.00	100.00	100.00		1.00

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

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

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

3

Sample and source description: 3

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

Moisture: 66.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	14,500.00	4,200.00	28,500.00		10.32
DL	100.00	100.00	100.00		1.00

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

3

Sample and source description: 3

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

Moisture: 69.0 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	17,700.00	3,100.00	18,900.00		5.51
DL	100.00	100.00	100.00		1.00

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

4

Sample and source description: 4

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

Moisture: 67.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	18,100.00	3,500.00	25,000.00		10.10
DL	100.00	100.00	100.00		1.00

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

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

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

4

Sample and source description: 4

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

Moisture: 68.3 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	23,200.00	2,800.00	19,300.00		8.08
DL	100.00	100.00	100.00		1.00

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

5

Sample and source description: 5

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

Moisture: 65.2 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	16,500.00	3,600.00	21,300.00		9.75
DL	100.00	100.00	100.00		1.00

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

5

Sample and source description: 5

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

Moisture: 67.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	24,500.00	2,500.00	15,700.00		6.65
DL	100.00	100.00	100.00		1.00

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

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

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

6

Sample and source description: 6

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

Moisture: 66.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	17,200.00	3,400.00	23,000.00		9.88
DL	100.00	100.00	100.00		1.00

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

6

Sample and source description: 6

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

Moisture: 67.4 %

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total salt (mg/kg)	TFS (%)
Value	19,600.00	3,000.00	17,300.00		5.92
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

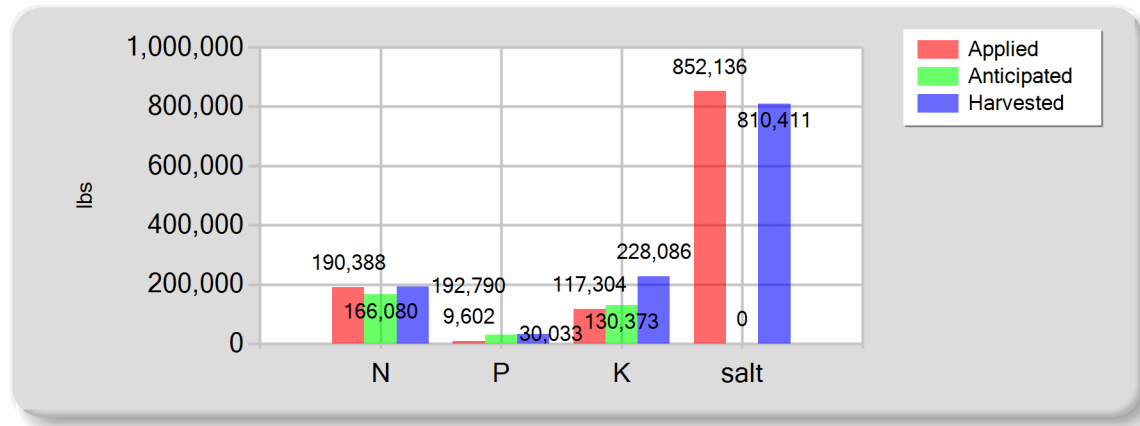
Reporting period 01/01/2023 to 12/31/2023.

NUTRIENT APPLICATIONS, POTENTIAL REMOVAL, AND BALANCE

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

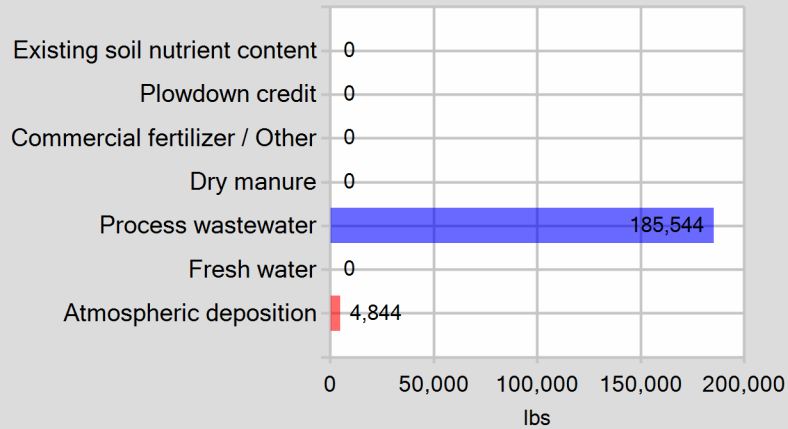
	Total N (lbs)	Total P (lbs)	Total K (lbs)	Total salt (lbs)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	185,544.08	9,601.91	117,304.00	807,737.75
Fresh water	0.00	0.00	0.00	44,398.17
Atmospheric deposition	4,844.00	0.00	0.00	0.00
Total nutrients applied	190,388.08	9,601.91	117,304.00	852,135.92
Anticipated crop nutrient removal	166,080.00	30,032.80	130,372.80	0.00
Actual crop nutrient removal	192,789.74	32,203.87	228,085.53	810,411.34
Nutrient balance	-2,401.66	-22,601.96	-110,781.53	41,724.58
Applied to removed ratio	0.99	0.30	0.51	1.05

B. POUNDS OF NUTRIENT APPLIED VS. CROP REMOVAL

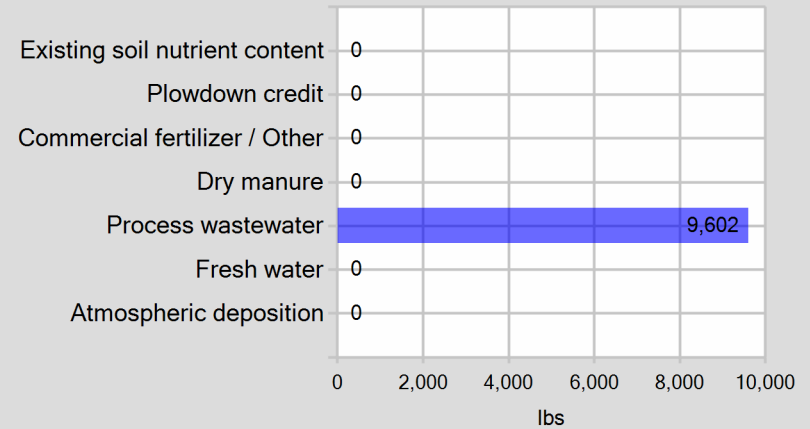


C. POUNDS OF NUTRIENT APPLIED BY MATERIAL TYPE

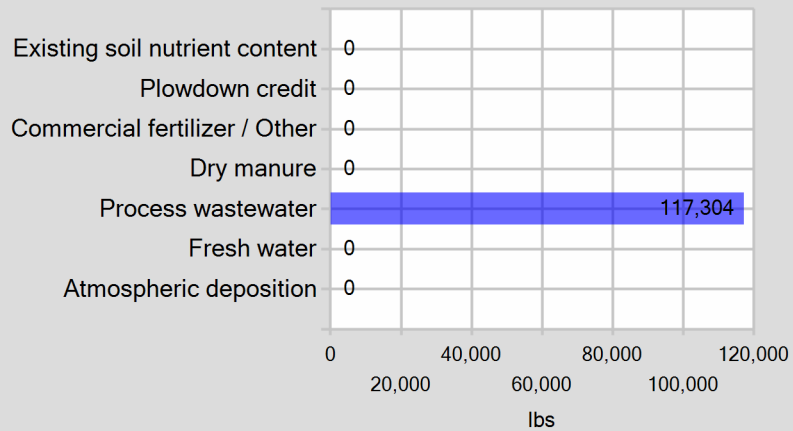
Pounds of nitrogen applied



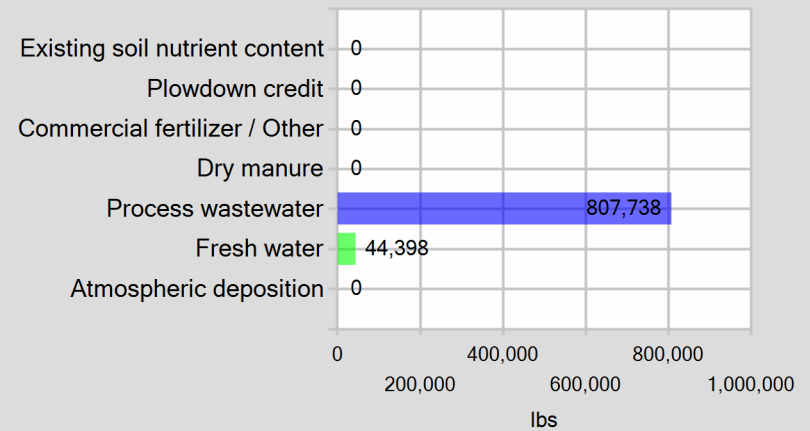
Pounds of phosphorus applied



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

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

Tony Cox sold out November of 2023 and the facility has continued to be empty.

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.

Not available to sign
SIGNATURE OF OWNER OF FACILITY

David Maciel
PRINT OR TYPE NAME

DATE

Tony Cox
SIGNATURE OF OPERATOR OF FACILITY

Tony Cox
PRINT OR TYPE NAME

DATE

6/14/24

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

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

ATTACHMENTS

A. REQUIRED ATTACHMENTS

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

Annual Dairy Facility Assessment

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

Manure/Process Wastewater Tracking Manifests

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

Corrective Actions Documents

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

Groundwater Monitoring

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

Storm Water Monitoring

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

**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: Tony Cox

Name of Dairy Facility: Tony Cox Dairy #3

Facility Address:

15410 Excelsior AVE
Number and Street

Hanford
City

Kings
County

93230
Zip Code

Contact Person Name and Phone Number: Tony Cox
Name

(559) 779-8145
Phone Number

MANURE HAULER INFORMATION

Name of Hauling Company/Person: Thomas Bros Spreading

Address of Hauling Company/Person:

19721 Excelsior
Number and Street

Riverdale
City

CA
State

93656
Zip Code

Contact Person: Manuel Thomas
Name

(559) 906-1406
Phone Number

DESTINATION INFORMATION

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

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

Thomas Bros Hauling
Name

(559) 906-1406
Phone Number

19721 Excelsior
Address

Riverdale
City

CA
State

93656
Zip Code

Destination Address or Assessor's Parcel Number:

Address

Riverdale
City

93656
Zip Code

Excelsior Ave

Street and nearest cross street (if no address)

Fresno
County

Assessor's Parcel Number

Assessor's Parcel Number County

Last date hauled: 10/25/2023

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: 73.6 %

Method used to determine amount of manure:

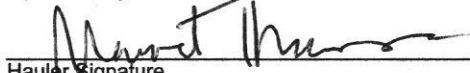
Weighted Average

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

6/14/24
Date


Hauler Signature

6/14/24
Date

Tony Cox Dairy #3
15410 Excelsior Ave
Hanford, CA 93230

Account# 00-0025790
Account Manager: Ben Nydam
Submitted By: Christina Medieros

Received: 12/13/2023 7:00
Reported: 12/20/2023 13:21

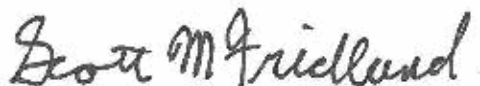
Samples in this Report

Lab ID	Sample	Matrix	Sampled By	Crop	Date Sampled
23L0722-01	Barn	Ag Water	Medeiros		12/12/2023 10:40

Default Cooler Temperature on Receipt °C: 14.6
Containers Intact
COC/Labels Agree
Received On Ice

Notes and Definitions

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



Laboratory Director/Technical Manager

ELAP Certification #1595
A2LA Certification #6440.02

Tony Cox Dairy #3
15410 Excelsior Ave
Hanford, CA 93230

Account# 00-0025790
Account Manager: Ben Nydam
Submitted By: Christina Medieros

Received: 12/13/2023 7:00
Reported: 12/20/2023 13:21

Sample Results

Sample: Barn
23L0722-01 (Water)

Sampled: 12/12/2023 10:40
Sampled By: Medeiros

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
Electrical Conductivity	0.24	mmhos/cm	0.01	1		12/13/23 18:16	SM 2510 B		BEL0498
Electrical Conductivity umhos	236	umhos/cm	10.0	1		12/13/23 18:16	SM 2510 B		BEL0498
Ammonia (as N)	ND	mg/L	0.00	1		12/12/23 10:40	Field		BEL0535
Nitrate Nitrogen as NO3N	ND	mg/L	0.1	1	10	12/14/23 12:09	EPA 300.0		BEL0445
Temperature	25.0	units	0.0	1		12/13/23 18:16	SM 4500-H+	H	BEL0498
pH	9.3	units	1.0	1		12/13/23 18:16	SM 4500-H+	H	BEL0498

Tony Cox Dairy #3
15410 Excelsior Ave
Hanford, CA 93230

Account# 00-0025790
Account Manager: Ben Nydam
Submitted By: Christina Medieros

Received: 12/13/2023 7:00
Reported: 12/20/2023 13:21

Quality Control

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEL0445									
Blank (BEL0445-BLK1)				Prepared & Analyzed: 12/13/2023					
Nitrate Nitrogen as NO3N	ND	0.1	mg/L						
Blank (BEL0445-BLK2)				Prepared: 12/13/2023 Analyzed: 12/14/2023					
Nitrate Nitrogen as NO3N	ND	0.1	mg/L						
Blank (BEL0445-BLK3)				Prepared: 12/13/2023 Analyzed: 12/14/2023					
Nitrate Nitrogen as NO3N	ND	0.1	mg/L						
Blank (BEL0445-BLK4)				Prepared: 12/13/2023 Analyzed: 12/14/2023					
Nitrate Nitrogen as NO3N	ND	0.1	mg/L						
LCS (BEL0445-BS1)				Prepared: 12/13/2023 Analyzed: 12/14/2023					
Nitrate Nitrogen as NO3N	5.0	0.1	mg/L	5.000		100	90-110		
LCS (BEL0445-BS2)				Prepared: 12/13/2023 Analyzed: 12/14/2023					
Nitrate Nitrogen as NO3N	5.0	0.1	mg/L	5.000		101	90-110		
LCS (BEL0445-BS3)				Prepared: 12/13/2023 Analyzed: 12/14/2023					
Nitrate Nitrogen as NO3N	5.1	0.1	mg/L	5.000		101	90-110		
Duplicate (BEL0445-DUP1)				Source: 23L0611-01		Prepared: 12/13/2023 Analyzed: 12/14/2023			
Nitrate Nitrogen as NO3N	4.6	0.1	mg/L		4.6			0.0437	10
Duplicate (BEL0445-DUP2)				Source: 23L0626-02		Prepared: 12/13/2023 Analyzed: 12/14/2023			
Nitrate Nitrogen as NO3N	8.6	0.1	mg/L		8.8			1.93	10
Duplicate (BEL0445-DUP3)				Source: 23L0768-01		Prepared: 12/13/2023 Analyzed: 12/14/2023			
Nitrate Nitrogen as NO3N	2.0	0.1	mg/L		2.1			0.924	10
Matrix Spike (BEL0445-MS1)				Source: 23L0611-01		Prepared: 12/13/2023 Analyzed: 12/14/2023			
Nitrate Nitrogen as NO3N	9.8	0.1	mg/L	5.000	4.6	105	90-110		
Matrix Spike (BEL0445-MS2)				Source: 23L0626-02		Prepared: 12/13/2023 Analyzed: 12/14/2023			
Nitrate Nitrogen as NO3N	13.8	0.1	mg/L	5.000	8.8	100	90-110		
Matrix Spike (BEL0445-MS3)				Source: 23L0768-01		Prepared: 12/13/2023 Analyzed: 12/14/2023			
Nitrate Nitrogen as NO3N	7.3	0.1	mg/L	5.000	2.1	105	90-110		
Reference (BEL0445-SRM1)				Prepared & Analyzed: 12/13/2023					
Nitrate Nitrogen as NO3N	10.1		mg/L	10.00		101	90-110		
Reference (BEL0445-SRM2)				Prepared: 12/13/2023 Analyzed: 12/14/2023					
Nitrate Nitrogen as NO3N	10.2		mg/L	10.00		102	90-110		

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Tony Cox Dairy #3
15410 Excelsior Ave
Hanford, CA 93230

Account# 00-0025790
Account Manager: Ben Nydam
Submitted By: Christina Medieros

Received: 12/13/2023 7:00
Reported: 12/20/2023 13:21

Quality Control (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch: BEL0445 (Continued)

Reference (BEL0445-SRM3)

Nitrate Nitrogen as NO3N 10.3 mg/L 10.00 103 90-110

Prepared: 12/13/2023 Analyzed: 12/14/2023

Reference (BEL0445-SRM4)

Nitrate Nitrogen as NO3N 10.3 mg/L 10.00 103 90-110

Prepared: 12/13/2023 Analyzed: 12/14/2023

Tony Cox Dairy #3
15410 Excelsior Ave
Hanford, CA 93230

Account# 00-0025790
Account Manager: Ben Nydam
Submitted By: Christina Medieros

Received: 12/13/2023 7:00
Reported: 12/20/2023 13:21

Quality Control (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEL0498									
Blank (BEL0498-BLK1)				Prepared & Analyzed: 12/13/2023					
Electrical Conductivity	ND	0.01	mmhos/cm						
Temperature	25.0	0.0	units						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
pH	5.5	1.0	units						
Blank (BEL0498-BLK2)				Prepared & Analyzed: 12/13/2023					
Temperature	25.0	0.0	units						
Electrical Conductivity	ND	0.01	mmhos/cm						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
pH	7.7	1.0	units						
Blank (BEL0498-BLK3)				Prepared & Analyzed: 12/13/2023					
Electrical Conductivity	ND	0.01	mmhos/cm						
Temperature	25.0	0.0	units						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
pH	7.7	1.0	units						
Duplicate (BEL0498-DUP1)				Source: 23L0716-01		Prepared & Analyzed: 12/13/2023			
Electrical Conductivity	2.02	0.01	mmhos/cm		2.00		0.916	10	
pH	7.4	1.0	units		7.4		0.135	10	
Electrical Conductivity umhos	2020	10.0	umhos/cm		2000		0.916	10	
Duplicate (BEL0498-DUP2)				Source: 23L0724-02		Prepared & Analyzed: 12/13/2023			
Electrical Conductivity	2.08	0.01	mmhos/cm		2.04		2.11	10	
Electrical Conductivity umhos	2080	10.0	umhos/cm		2040		2.11	10	
pH	7.3	1.0	units		7.3		0.274	10	
Reference (BEL0498-SRM1)				Prepared & Analyzed: 12/13/2023					
Electrical Conductivity	436		umhos/cm	426.0		102	90-110		
Reference (BEL0498-SRM2)				Prepared & Analyzed: 12/13/2023					
pH	7.5		units	7.520		100	67021-101.3;		
Reference (BEL0498-SRM3)				Prepared & Analyzed: 12/13/2023					
Electrical Conductivity	1050		umhos/cm	1000		105	90-110		
Electrical Conductivity umhos	1050		umhos/cm	1000		105	90-110		
Reference (BEL0498-SRM4)				Prepared & Analyzed: 12/13/2023					
Electrical Conductivity	1070		umhos/cm	1000		107	90-110		
Electrical Conductivity umhos	1070		umhos/cm	1000		107	90-110		
Reference (BEL0498-SRM5)				Prepared & Analyzed: 12/13/2023					
Electrical Conductivity	1090		umhos/cm	1000		109	90-110		

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Tony Cox Dairy #3
15410 Excelsior Ave
Hanford, CA 93230

Account# 00-0025790
Account Manager: Ben Nydam
Submitted By: Christina Medieros

Received: 12/13/2023 7:00
Reported: 12/20/2023 13:21

Quality Control (Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BEL0498 (Continued)									
Reference (BEL0498-SRM5)				Prepared & Analyzed: 12/13/2023					
Electrical Conductivity umhos	1090		umhos/cm	1000		109	90-110		
Reference (BEL0498-SRM6)				Prepared & Analyzed: 12/13/2023					
pH	4.0		units	4.000		101	97.5-102.5		
Reference (BEL0498-SRM7)				Prepared & Analyzed: 12/13/2023					
pH	4.0		units	4.000		101	97.5-102.5		
Reference (BEL0498-SRM8)				Prepared & Analyzed: 12/13/2023					
pH	4.0		units	4.000		100	97.5-102.5		

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12/13/23 07:00

23L0722

WATER WORK REQUEST

Bill To: Acct No. 25790 Cons. 8

Purchase Order No. Results Needed By

Client Tony Cox Dairy #3
Address 15410 Excelsior Ave
City, State, Zip Hanford CA 93230
Email dmaciell@lemooren.net

Copy to: mel_tinamedeiros@yahoo.com

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

Facility:

Date sampled

Sampled by Medeiros

☒ QA/QC Document ☒ Copy of Chain ☒ RWQCB

DESCRIPTION OF SAMPLES

1.	Bain	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				12/12/23 11:32AM
Second		DLI	12/12/23 11:32AM	
Third				
Fourth		DLI	12/13 07:00	

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

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

Invoicing Information:

Medeiros Pricing 2023

Sampling Hrs Miles Consulting

Amt Paid

Rec By

Check No.

Date

Shipping

\$ In

\$ Out

Signature

Sample received in cooler with ice?

[] Yes [] No

ett:update 2020

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

No. Bottles

Water Type:

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

Analysis and Bottles Required: (Please Indicate Analysis)

☒ EC, NO₃-N

(1) 1L plastic, unpreserved (white)

☐ DWW1: (EC, pH, NO₃-N, NH₄-N Field Test)☐ (1) 1L plastic, unpreserved (white)☐ DWW2: (DWW1 Plus SO₄, CO₃, HCO₃, Cl, Ca, Mg, Na, TDS)

(1) 1L plastic, unpreserved (white)

☐ DCW1: (EC, NO₃-N, TDS)

(1) 1L plastic, unpreserved (white)

☐ DPW1: (EC, pH, NO₃-N, NH₄-N, TKN, TDS, TP, TK)

(1) 1L plastic, unpreserved (white)

☐ DPW2: (DPW1 Plus Ca, Mg, Na, HCO₃, CO₃, SO₄, Cl)

(1) 1L plastic, unpreserved (white)

☐ Other

Date Sampled	Time Sampled	Field NH ₄ -N (mg/L)	Received Temp °C
12/12/23	10:40am	0	14.6 / 0.1

IR Thermometer SN: 200560723
Correction Factor: 0°C
Calibration Due: 03/06/2024
Location: Laboratory

IR Thermometer SN: 221511276
Correction Factor: 0°C
Calibration Due: 03/06/2024
Location: Hanford

H/F

12/12/23 11:32AM

12/12/23 11:32AM

12/13 07:00



12/13/23 07:00

23L0722

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



12/13/23 07:00

23L0722

WATER WORK REQUEST

Bill To: Acct No. 25790 Cons. 8

Purchase Order No. Results Needed By

Client Tony Cox Dairy #3
Address 15410 Excelsior Ave
City, State, Zip Hanford CA 93230
Email dmaciell@lemooren.net

Copy to: mel_tinamedeiros@yahoo.com

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

Facility:

Date sampled

Sampled by Medeiros

☒ QA/QC Document ☒ Copy of Chain ☒ RWQCB

DESCRIPTION OF SAMPLES

1.	Bain	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				12/12/23 11:32AM
Second		DLI	12/12/23 11:32AM	
Third				
Fourth		DLI	12/13 07:00	

I guarantee that as the client, or on behalf of the client named, I have the authority to contract the above requested services. Should it be found that I do not have such authority, I agree to be personally liable for all costs and, if there should be action against me for this breach, reasonable attorneys' fees. It is understood that payment is expected to be cash with samples unless terms have been previously arranged. Terms are net 30 days; overdue accounts will be charged a 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:		Shipping	
Medeiros Pricing 2023		\$	In
Sampling Hrs	Miles Consulting	\$	Out
Amt 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 559 268-8174No. of Samples No. Bottles
Water Type: ☒ Ag Water ☐ Drinking ☐ Wastewater
☒ Supply Water ☐ Ground Water ☐ Mon. Well
☐ Other

Analysis and Bottles Required: (Please Indicate Analysis)

- ☒ EC, NO₃-N
(1) 1L plastic, unpreserved (white)
- ☐ DWW1: (EC, pH, NO₃-N, NH₄-N Field Test)
(1) 1L plastic, unpreserved (white)
- ☐ DWW2: (DWW1 Plus SO₄, CO₃, HCO₃, Cl, Ca, Mg, Na, TDS)
(1) 1L plastic, unpreserved (white)
- ☐ DCW1: (EC, NO₃-N, TDS)
(1) 1L plastic, unpreserved (white)
- ☐ DPW1: (EC, pH, NO₃-N, NH₄-N, TKN, TDS, TP, TK)
(1) 1L plastic, unpreserved (white)
- ☐ DPW2: (DPW1 Plus Ca, Mg, Na, HCO₃, CO₃, SO₄, Cl)
(1) 1L plastic, unpreserved (white)

☐ Other

Date Sampled	Time Sampled	Field NH ₄ -N (mg/L)	Received Temp °C
12/12/23	10:40AM	0	14.6 / 0.1

IR Thermometer SN: 200560723
Correction Factor: 0°C
Calibration Due: 03/06/2024
Location: LaboratoryIR Thermometer SN: 221511276
Correction Factor: 0°C
Calibration Due: 03/06/2024
Location: Hanford

H/F

ett:update 2020



12/13/23 07:00

23L0722

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