

**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:** AC Enterprises

Physical address of dairy:

15499 Road 72

Number and Street

Tipton

Tulare

93272

City

County

Zip Code

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

Date facility was originally placed in operation: 01/01/2005

Regional Water Quality Control Board Basin Plan designation: Tulare Basin

County Assessor Parcel Number(s) for dairy facility:

0228-0270-0002-0000

**B. OPERATORS**

Brasil, Carl Albert Jr

Operator name: Brasil, Carl Albert Jr

Telephone no.: (559) 901-3771

Landline

Cellular

15499 72 RD

Tipton

CA

93272

Mailing Address Number and Street

City

State

Zip Code

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

**C. OWNERS**

Brasil, Mary

Legal owner name: Brasil, Mary

Telephone no.: (559) 901-0600

Landline

Cellular

932 N Beatrice DR

Tulare

CA

93274

Mailing Address Number and Street

City

State

Zip Code

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**AVAILABLE NUTRIENTS**

**A. HERD INFORMATION**

	Milk Cows	Dry Cows	Bred Heifers (15-24 mo.)	Heifers (7-14 mo. to breeding)	Calves (4-6 mo.)	Calves (0-3 mo.)
Number open confinement	0	120	317	148	70	85
Number under roof	465	0	0	0	0	0
Maximum number	499	123	328	155	72	92
Average number	488	110	321	148	69	89
Avg live weight (lbs)	1,400	1,600	1,000	800		

Predominant milk cow breed: Holstein

Average milk production: 85 pounds per cow per day

**B. MANURE GENERATED**

Total manure excreted by the herd: 20,409.01 tons per reporting period

Total nitrogen from manure: 247,554.64 lbs per reporting period

After ammonia losses (30% loss applied): 173,288.25 lbs per reporting period

Total phosphorus from manure: 40,525.86 lbs per reporting period

Total potassium from manure: 98,265.74 lbs per reporting period

Total salt from manure: 255,069.30 lbs per reporting period

**C. PROCESS WASTEWATER GENERATED**

Process wastewater generated: 58,000,000 gallons

Total nitrogen generated: 107,475.26 lbs

$$\begin{aligned}
 & 58,000,000 \text{ gallons applied} \\
 & + 0 \text{ gallons exported} \\
 & - 0 \text{ gallons imported} \\
 & = 58,000,000 \text{ gallons generated}
 \end{aligned}$$

Total phosphorus generated: 8,319.97 lbs

Total potassium generated: 124,874.58 lbs

Total salt generated: 915,363.05 lbs

**D. FRESH WATER SOURCES**

Source Description	Type
Pump 1	Ground water
Pump 2	Ground water
Pump 3	Ground water

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

*No subsurface (tile) drainage sources entered.*

**F. NUTRIENT IMPORTS**

*No dry manure nutrient imports entered.*

*No process wastewater nutrient imports entered.*

*No commercial or other nutrient imports entered.*

**G. NUTRIENT EXPORTS**

Date	Material type	Quantity	Reporting basis	Moisture (%)	Density (lbs/cu ft)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/23/2023	Corral solids	1,380.00 <i>ton</i>	Dry-weight	4.5		29,200.00	9,800.00	25,100.00		0.00

*No liquid nutrient exports entered.*

Material type	Total N (lbs)	Total P (lbs)	Total K (lbs)	Total salt (lbs)
Dry manure	76,965.36	25,830.84	66,158.58	0.00
Process wastewater	0.00	0.00	0.00	0.00
Total exports for all materials	76,965.36	25,830.84	66,158.58	0.00

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

Field name	Controlled acres	Cropable acres	Total harvests	Type of waste applied	Parcel number
Field 1	62	62	2	process wastewater	0228-0270-0014-0000
Field 2	61	61	2	process wastewater	0228-0270-0015-0000
Field 3	72	72	2	process wastewater	0228-0270-0002-0000
Totals for areas that were used for application	195	195	6		
Totals for areas that were not used for application					
Land application area totals	195	195	6		

**B. CROPS AND HARVESTS**

## Field 1

Field name: Field 1

11/07/2022: Triticale, soft dough

Crop: Triticale, soft dough      Acres planted: 62      Plant date: 11/07/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/11/2023	1,518.00 ton	As-is		32.2	6,300.00	1,300.00	6,100.00		3.64

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	24.00	240.00	40.80	180.00	0.00
Total actual harvest content	24.48	308.50	63.66	298.70	1,208.48

06/06/2023: Corn, silage

Crop: Corn, silage      Acres planted: 62      Plant date: 06/06/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/06/2023	2,061.00 ton	As-is		55.7	5,400.00	1,600.00	4,600.00		2.54

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	24.00	192.00	36.00	158.40	0.00
Total actual harvest content	33.24	359.01	106.37	305.83	748.09

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**Field 2**

Field name: Field 2

11/05/2022: Triticale, soft dough

Crop: Triticale, soft dough      Acres planted: 61      Plant date: 11/05/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/05/2023	1,027.00 ton	As-is		59.3	10,800.00	2,200.00	17,200.00		5.95

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	24.00	240.00	40.80	180.00	0.00
Total actual harvest content	16.84	363.66	74.08	579.16	815.42

06/06/2023: Corn, silage

Crop: Corn, silage      Acres planted: 61      Plant date: 06/06/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/06/2023	1,205.00 ton	As-is		67.2	4,100.00	1,000.00	3,600.00		1.86

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	24.00	192.00	36.00	158.40	0.00
Total actual harvest content	19.75	161.98	39.51	142.23	241.03

**Field 3**

Field name: Field 3

11/07/2022: Triticale, soft dough

Crop: Triticale, soft dough      Acres planted: 72      Plant date: 11/07/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/11/2023	1,783.00 ton	As-is		75.1	5,300.00	1,100.00	6,200.00		2.72

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	24.00	240.00	40.80	180.00	0.00
Total actual harvest content	24.76	262.50	54.48	307.07	335.44

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Field 3

06/21/2023: Corn, silage

Crop: Corn, silage      Acres planted: 72      Plant date: 06/21/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
11/21/2023	2,061.00 <i>ton</i>	As-is		63.0	4,400.00	1,200.00	3,000.00		2.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	24.00	192.00	36.00	158.40	0.00
Total actual harvest content	28.63	251.90	68.70	171.75	423.65

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

Field 1 - 11/07/2022: Triticale, soft dough

Field name: Field 1

Crop: Triticale, soft dough Plant date: 11/07/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application			Precipitation 24 hours following
01/05/2023	Surface (irrigation)	No precipitation	No precipitation			No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Pump 1	Ground water	1.28	0.00	0.00	158.69	5,000,000.00 gal
Application event totals		1.28	0.00	0.00	158.69	
01/05/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
1st Irrigation	Process wastewater	84.80	5.85	98.12	706.63	3,000,000.00 gal
Application event totals		84.80	5.85	98.12	706.63	
02/04/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
2nd Irrigation	Process wastewater	84.80	5.85	98.12	706.63	3,000,000.00 gal
Application event totals		84.80	5.85	98.12	706.63	
02/04/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Pump 1	Ground water	0.77	0.00	0.00	95.21	3,000,000.00 gal
Application event totals		0.77	0.00	0.00	95.21	
03/03/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
3rd Irrigation	Process wastewater	84.80	5.85	98.12	706.63	3,000,000.00 gal
Application event totals		84.80	5.85	98.12	706.63	

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Field 1 - 11/07/2022: Triticale, soft dough

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
03/03/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Pump 1	Ground water	1.28	0.00	0.00	158.69
Application event totals		1.28	0.00	0.00	158.69
					5,000,000.00 gal

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

Field name: Field 1

Crop: Corn, silage

Plant date: 06/06/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following
05/25/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Pump 1	Ground water	1.28	0.00	0.00	158.69
Application event totals		1.28	0.00	0.00	158.69
05/25/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)
Pre-irrigate	Process wastewater	84.80	5.85	98.12	706.63
Application event totals		84.80	5.85	98.12	706.63
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)
Pump 1	Ground water	1.28	0.00	0.00	158.69
Application event totals		1.28	0.00	0.00	158.69
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)
2nd Irrigation	Process wastewater	84.80	5.85	98.12	706.63
Application event totals		84.80	5.85	98.12	706.63

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Field 1 - 06/06/2023: 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
Pump 1	Ground water	1.28	0.00	0.00	158.69	5,000,000.00 gal
Application event totals		1.28	0.00	0.00	158.69	
08/03/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
3rd Irrigation	Process wastewater	84.80	5.85	98.12	706.63	3,000,000.00 gal
Application event totals		84.80	5.85	98.12	706.63	
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
3rd Irrigation	Process wastewater	178.88	26.85	215.22	1,808.98	3,000,000.00 gal
Application event totals		178.88	26.85	215.22	1,808.98	
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
Pump 1	Ground water	1.28	0.00	0.00	158.69	5,000,000.00 gal
Application event totals		1.28	0.00	0.00	158.69	
08/28/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Pump 1	Ground water	1.28	0.00	0.00	158.69	5,000,000.00 gal
Application event totals		1.28	0.00	0.00	158.69	
09/13/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Pump 1	Ground water	1.28	0.00	0.00	158.69	5,000,000.00 gal
Application event totals		1.28	0.00	0.00	158.69	

Field 2 - 11/05/2022: Triticale, soft dough

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Field 2 - 11/05/2022: Triticale, soft dough

Field name: Field 2Crop: Triticale, soft doughPlant date: 11/05/2022

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
12/01/2022	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
Pump 2	Ground water	10.88	0.00	0.00	342.28	5,000,000.00 gal
Application event totals		10.88	0.00	0.00	342.28	
12/01/2022	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
1st Irrigation	Process wastewater	143.64	9.92	166.22	1,197.03	5,000,000.00 gal
Application event totals		143.64	9.92	166.22	1,197.03	
01/03/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
2nd Irrigation	Process wastewater	86.19	5.95	99.73	718.22	3,000,000.00 gal
Application event totals		86.19	5.95	99.73	718.22	
01/03/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Pump 2	Ground water	10.88	0.00	0.00	342.28	5,000,000.00 gal
Application event totals		10.88	0.00	0.00	342.28	
02/08/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
3rd Irrigation	Process wastewater	86.19	5.95	99.73	718.22	3,000,000.00 gal
Application event totals		86.19	5.95	99.73	718.22	

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

Field name: Field 2Crop: Corn, silagePlant date: 06/06/2023

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

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/27/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Pump 2	Ground water	15.23	0.00	0.00	479.19	7,000,000.00 gal
Application event totals		15.23	0.00	0.00	479.19	
05/27/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Pre-irrigate	Process wastewater	86.19	5.95	99.73	718.22	3,000,000.00 gal
Application event totals		86.19	5.95	99.73	718.22	
07/01/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Pump 2	Ground water	15.23	0.00	0.00	479.19	7,000,000.00 gal
Application event totals		15.23	0.00	0.00	479.19	
07/01/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
1st Irrigation	Process wastewater	57.46	3.97	66.49	478.81	2,000,000.00 gal
Application event totals		57.46	3.97	66.49	478.81	
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
Pump 2	Ground water	15.23	0.00	0.00	479.19	7,000,000.00 gal
Application event totals		15.23	0.00	0.00	479.19	
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
Pump 2	Ground water	15.23	0.00	0.00	479.19	7,000,000.00 gal
Application event totals		15.23	0.00	0.00	479.19	

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

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
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
Pump 2	Ground water	15.23	0.00	0.00	479.19	7,000,000.00 gal
Application event totals		15.23	0.00	0.00	479.19	
09/11/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Pump 2	Ground water	15.23	0.00	0.00	479.19	7,000,000.00 gal
Application event totals		15.23	0.00	0.00	479.19	

**Field 3 - 11/07/2022: Triticale, soft dough**

Field name:	Field 3					
Crop:	Triticale, soft dough					
Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
12/08/2022	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
Pump 3	Ground water	7.14	0.00	0.00	360.23	7,000,000.00 gal
Application event totals		7.14	0.00	0.00	360.23	
12/08/2022	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
1st Irrigation	Process wastewater	73.02	5.04	84.49	608.49	3,000,000.00 gal
Application event totals		73.02	5.04	84.49	608.49	
01/05/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
2nd Irrigation	Process wastewater	73.02	5.04	84.49	608.49	3,000,000.00 gal
Application event totals		73.02	5.04	84.49	608.49	

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**Field 3 - 11/07/2022: Triticale, soft dough**

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
01/05/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Pump 3	Ground water	5.10	0.00	0.00	257.30	5,000,000.00 gal
Application event totals		5.10	0.00	0.00	257.30	
02/10/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
3rd Irrigation	Process wastewater	73.02	5.04	84.49	608.49	3,000,000.00 gal
Application event totals		73.02	5.04	84.49	608.49	
02/10/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Pump 3	Ground water	5.10	0.00	0.00	257.30	5,000,000.00 gal
Application event totals		5.10	0.00	0.00	257.30	

**Field 3 - 06/21/2023: Corn, silage**

Field name: Field 3

Crop: Corn, silage

Plant date: 06/21/2023

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
05/30/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Pump 3	Ground water	7.14	0.00	0.00	360.23	7,000,000.00 gal
Application event totals		7.14	0.00	0.00	360.23	
05/30/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Pre-irrigate	Process wastewater	73.02	5.04	84.49	608.49	3,000,000.00 gal
Application event totals		73.02	5.04	84.49	608.49	

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Field 3 - 06/21/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
07/07/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Pump 3	Ground water	5.10	0.00	0.00	257.30	5,000,000.00 gal
Application event totals		5.10	0.00	0.00	257.30	
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
Pump 3	Ground water	5.10	0.00	0.00	257.30	5,000,000.00 gal
Application event totals		5.10	0.00	0.00	257.30	
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
2nd Irrigation	Process wastewater	73.02	5.04	84.49	608.49	3,000,000.00 gal
Application event totals		73.02	5.04	84.49	608.49	
08/23/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Pump 3	Ground water	5.10	0.00	0.00	257.30	5,000,000.00 gal
Application event totals		5.10	0.00	0.00	257.30	
08/23/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
3rd Irrigation	Process wastewater	73.02	5.04	84.49	608.49	3,000,000.00 gal
Application event totals		73.02	5.04	84.49	608.49	
09/11/2023	Surface (irrigation)	No precipitation	No precipitation		No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Pump 3	Ground water	7.14	0.00	0.00	360.23	7,000,000.00 gal
Application event totals		7.14	0.00	0.00	360.23	

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Field 3 - 06/21/2023: Corn, silage

Application date	Application method	Precipitation 24 hours prior	Precipitation during application		Precipitation 24 hours following	
09/29/2023	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
Pump 3	Ground water	5.10	0.00	0.00	257.30	5,000,000.00 gal
Application event totals		5.10	0.00	0.00	257.30	
09/29/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Pump 3	Process wastewater	73.02	5.04	84.49	608.49	3,000,000.00 gal
Application event totals		73.02	5.04	84.49	608.49	
10/27/2023	Surface (irrigation)	No precipitation	No precipitation	No precipitation	No precipitation	
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Pump 3	Ground water	7.14	0.00	0.00	360.23	7,000,000.00 gal
Application event totals		7.14	0.00	0.00	360.23	

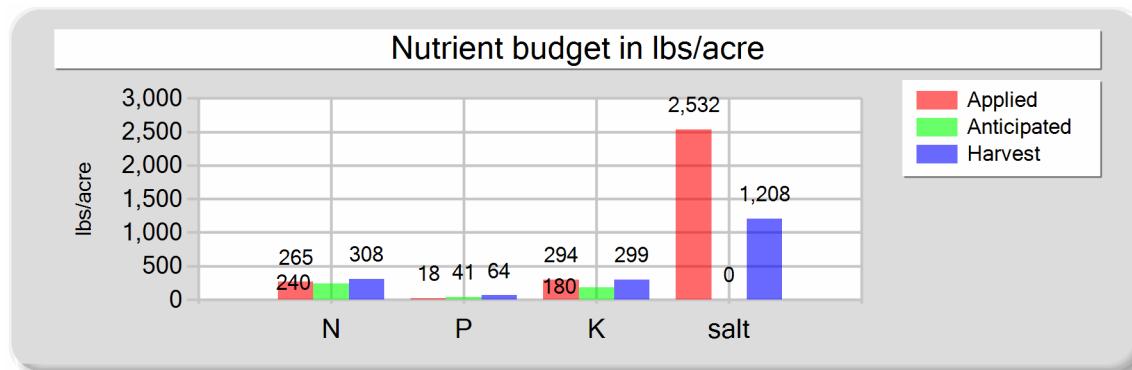
**Annual Report - General Order No. R5-2007-0035**

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**B. NUTRIENT BUDGET**

Field 1 - 11/07/2022: Triticale, soft dough

Field name: Field 1      Crop: Triticale, soft dough      Plant date: 11/07/2022



	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	254.39	17.56	294.36	2,119.90
Fresh water	3.32	0.00	0.00	412.59
Atmospheric deposition	7.00	0.00	0.00	0.00
<b>Total nutrients applied</b>	<b>264.71</b>	<b>17.56</b>	<b>294.36</b>	<b>2,532.49</b>
Anticipated crop nutrient removal	240.00	40.80	180.00	0.00
Actual crop nutrient removal	308.50	63.66	298.70	1,208.48
Nutrient balance	-43.78	-46.09	-4.34	1,324.01
Applied to removed ratio	0.86	0.28	0.99	2.10

Fresh water applied
13,000,000.00 gallons
478.75 acre-inches
7.72 inches/acre
Process wastewater applied
9,000,000.00 gallons
331.44 acre-inches
5.35 inches/acre
Total harvests for the crop
1 harvests

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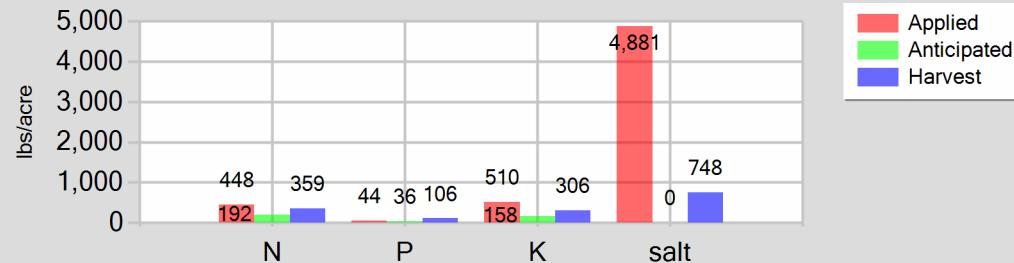
Field 1 - 06/06/2023: Corn, silage

Field name: Field 1

Crop: Corn, silage

Plant date: 06/06/2023

**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	433.27	44.42	509.58	3,928.88
Fresh water	7.67	0.00	0.00	952.14
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	447.94	44.42	509.58	4,881.02
Anticipated crop nutrient removal	192.00	36.00	158.40	0.00
Actual crop nutrient removal	359.01	106.37	305.83	748.09
Nutrient balance	88.93	-61.96	203.76	4,132.93
Applied to removed ratio	1.25	0.42	1.67	6.52

**Fresh water applied**

30,000,000.00 gallons  
1,104.80 acre-inches  
17.82 inches/acre

**Process wastewater applied**

12,000,000.00 gallons  
441.92 acre-inches  
7.13 inches/acre

**Total harvests for the crop**

1 harvests

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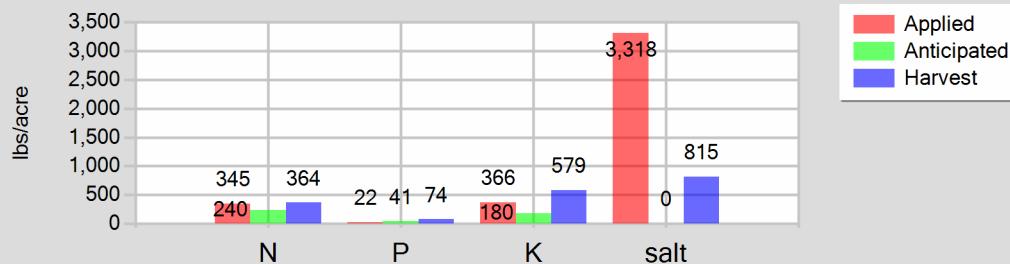
Field 2 - 11/05/2022: Triticale, soft dough

Field name: Field 2

Crop: Triticale, soft dough

Plant date: 11/05/2022

**Nutrient budget in lbs/acre**



	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Total salt (lbs/acre)
Existing soil nutrient content	0.00	0.00	0.00	0.00
Plowdown credit	0.00	0.00	0.00	0.00
Commercial fertilizer / Other	0.00	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	316.02	21.82	365.68	2,633.46
Fresh water	21.75	0.00	0.00	684.56
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	344.77	21.82	365.68	3,318.03
Anticipated crop nutrient removal	240.00	40.80	180.00	0.00
Actual crop nutrient removal	363.66	74.08	579.16	815.42
Nutrient balance	-18.89	-52.26	-213.49	2,502.61
Applied to removed ratio	0.95	0.29	0.63	4.07

**Fresh water applied**

10,000,000.00 gallons  
368.27 acre-inches  
6.04 inches/acre

**Process wastewater applied**

11,000,000.00 gallons  
405.09 acre-inches  
6.64 inches/acre

**Total harvests for the crop**

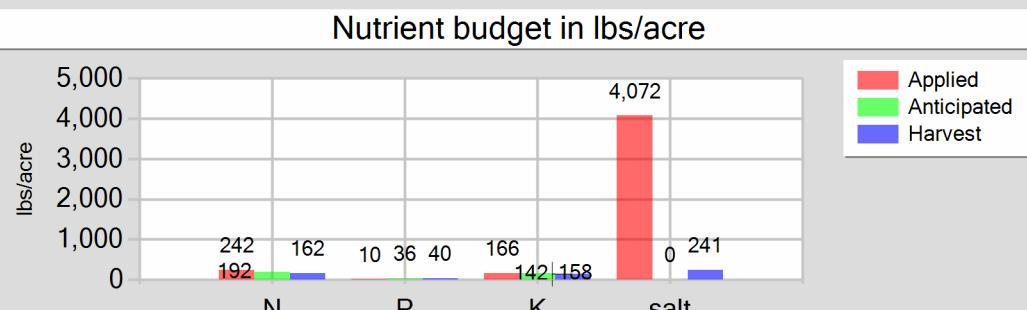
1 harvests

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

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



	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	143.64	9.92	166.22	1,197.03
Fresh water	91.36	0.00	0.00	2,875.17
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	242.00	9.92	166.22	4,072.20
Anticipated crop nutrient removal	192.00	36.00	158.40	0.00
Actual crop nutrient removal	161.98	39.51	142.23	241.03
Nutrient balance	80.02	-29.59	23.99	3,831.16
Applied to removed ratio	1.49	0.25	1.17	16.89

**Fresh water applied**  
42,000,000.00 gallons  
1,546.72 acre-inches  
25.36 inches/acre

**Process wastewater applied**  
5,000,000.00 gallons  
184.13 acre-inches  
3.02 inches/acre

**Total harvests for the crop**  
1 harvests

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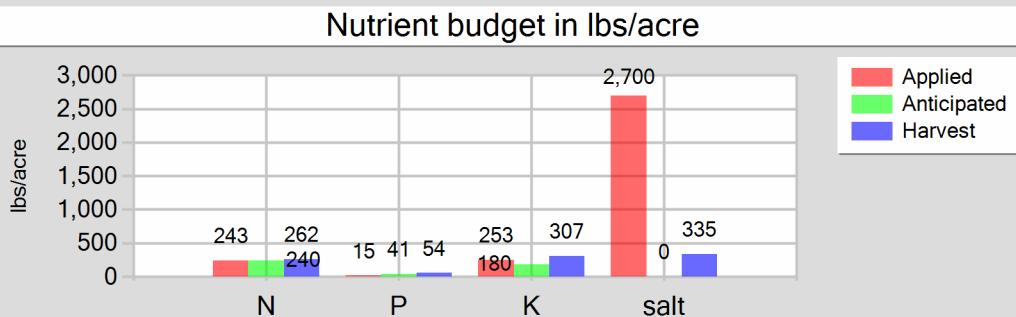
Reporting period 01/01/2023 to 12/31/2023.

Field 3 - 11/07/2022: Triticale, soft dough

Field name: Field 3

Crop: Triticale, soft dough

Plant date: 11/07/2022



	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	219.06	15.13	253.48	1,825.47
Fresh water	17.34	0.00	0.00	874.83
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	243.40	15.13	253.48	2,700.30
Anticipated crop nutrient removal	240.00	40.80	180.00	0.00
Actual crop nutrient removal	262.50	54.48	307.07	335.44
Nutrient balance	-19.10	-39.36	-53.59	2,364.86
Applied to removed ratio	0.93	0.28	0.83	8.05

**Fresh water applied**

17,000,000.00 gallons
626.05 acre-inches
8.70 inches/acre

**Process wastewater applied**

9,000,000.00 gallons
331.44 acre-inches
4.60 inches/acre

**Total harvests for the crop**

1 harvests
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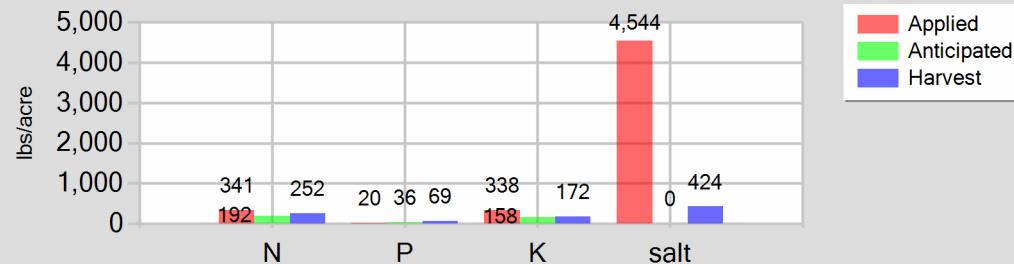
Field 3 - 06/21/2023: Corn, silage

Field name: Field 3

Crop: Corn, silage

Plant date: 06/21/2023

**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	292.08	20.17	337.97	2,433.96
Fresh water	41.82	0.00	0.00	2,109.89
Atmospheric deposition	7.00	0.00	0.00	0.00
Total nutrients applied	340.89	20.17	337.97	4,543.85
Anticipated crop nutrient removal	192.00	36.00	158.40	0.00
Actual crop nutrient removal	251.90	68.70	171.75	423.65
Nutrient balance	88.99	-48.53	166.22	4,120.20
Applied to removed ratio	1.35	0.29	1.97	10.73

**Fresh water applied**

41,000,000.00 gallons  
1,509.89 acre-inches  
20.97 inches/acre

**Process wastewater applied**

12,000,000.00 gallons  
441.92 acre-inches  
6.14 inches/acre

**Total harvests for the crop**

1 harvests

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**NUTRIENT ANALYSES****A. MANURE ANALYSES**

M58321-01

Sample and source description: M58321-01

Sample date: 07/20/2023 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 4.4 %

	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	2.92	1.03	2.51							
DL	0.01	0.02	0.02							

M69565-01

Sample and source description: M69565-01

Sample date: 11/07/2023 Material type: Corral solids Source of analysis: Lab analysis Method of reporting: Dry-weight

Moisture: 11.5 %

	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	3.22	0.88	1.68							
DL	0.01	0.02	0.02							

**B. PROCESS WASTEWATER ANALYSES**

L58320-01

Sample and source description: L58320-01

Sample date: 07/20/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: \_\_\_\_\_

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	210.00	103.00	0.00	0.00	14.50	243.00								5.83	1,750
DL	10.00	2.00	0.20	0.20	0.20	0.50								0.10	10

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L73589-01

Sample and source description: L73589-01

Sample date: 11/28/2023 Material type: Process wastewater Source of analysis: Lab analysis pH: \_\_\_\_\_

	Kjeldahl-N (mg/L)	NH4-N (mg/L)	NH3-N (mg/L)	Nitrate-N (mg/L)	Total P (mg/L)	Total K (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value	443.00	441.00	0.00	0.00	66.50	533.00								3.57	4,480
DL	10.00	0.20	0.20	0.20	0.20	0.50								0.10	10

**C. FRESH WATER ANALYSES**

Pump 1

VI 2344778-003

Sample description: VI 2344778-003

Sample date: 07/24/2023 Source of analysis: Lab analysis

	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (µmhos/cm)	TDS (mg/L)
Value		0.00	1.90								393.00	
DL		0.20	0.20								0.10	

Pump 2

VI 2344778-001

Sample description: VI 2344778-001

Sample date: 07/24/2023 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	15.90								834.00	
DL		0.20	0.20								0.10	

Pump 3

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

Pump 3

VI 2344778-002

Sample description: VI 2344778-002

Sample date: 07/24/2023    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	8.80								740.00	
DL		0.20	0.20								0.10	

**D. SOIL ANALYSES**

*No soil analyses entered.*

**E. PLANT TISSUE ANALYSES**

*No plant tissue analyses entered.*

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

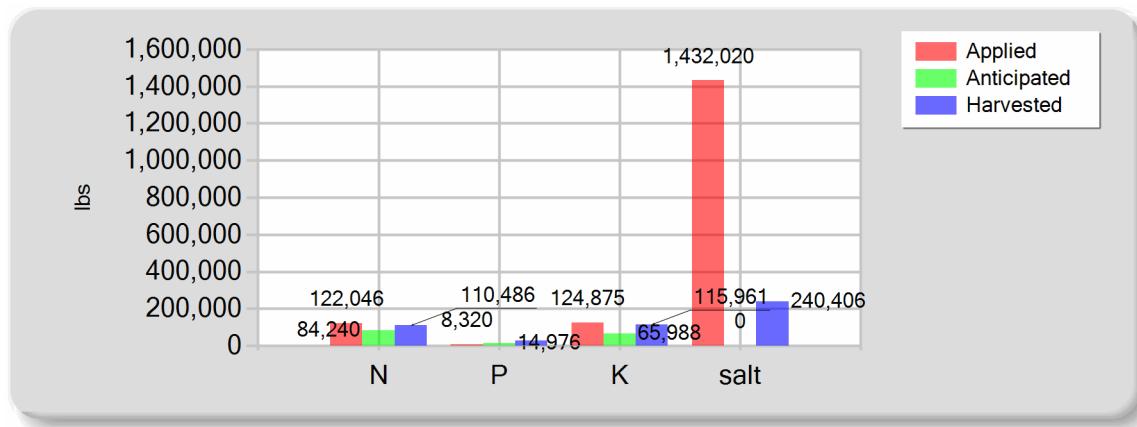
*No subsurface (tile) drainage analyses entered.*

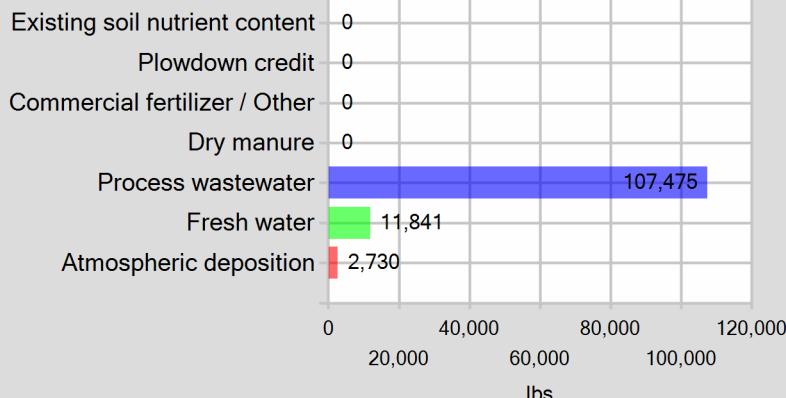
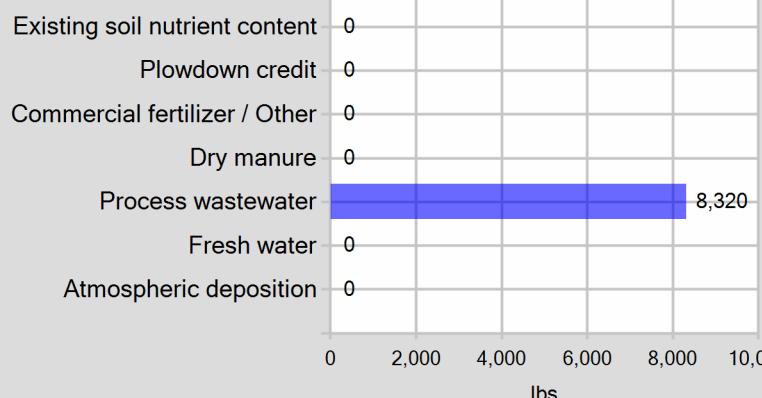
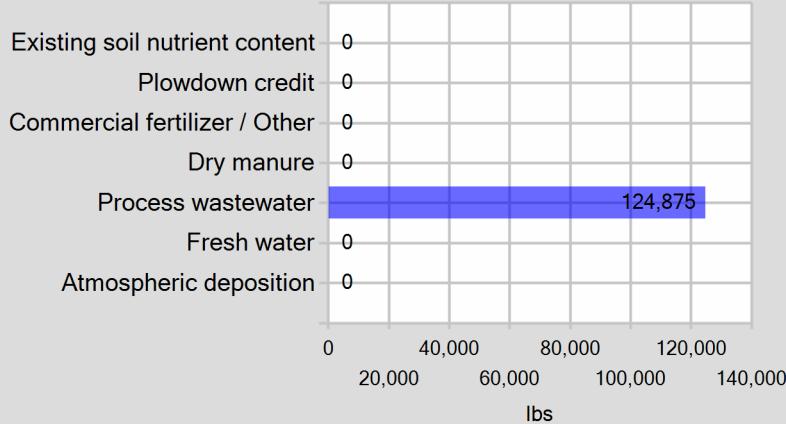
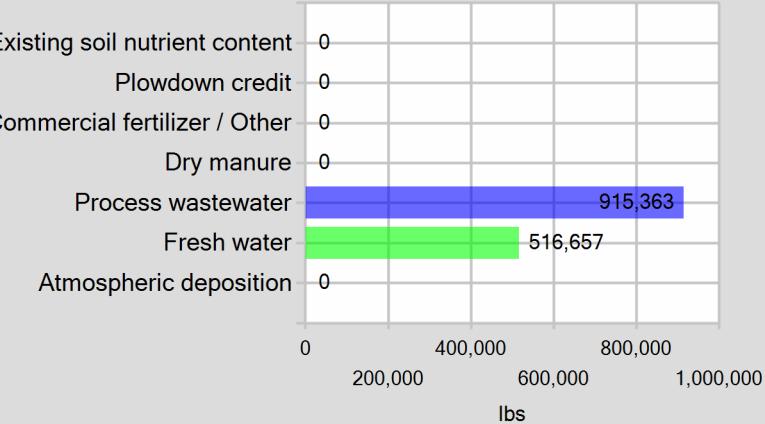
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Reporting period 01/01/2023 to 12/31/2023.

**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	107,475.26	8,319.97	124,874.58	915,363.05
Fresh water	11,840.72	0.00	0.00	516,657.31
Atmospheric deposition	2,730.00	0.00	0.00	0.00
Total nutrients applied	122,045.98	8,319.97	124,874.58	1,432,020.36
Anticipated crop nutrient removal	84,240.00	14,976.00	65,988.00	0.00
Actual crop nutrient removal	110,486.40	26,339.80	115,960.80	240,405.84
Nutrient balance	11,559.58	-18,019.84	8,913.78	1,191,614.52
Applied to removed ratio	1.10	0.32	1.08	5.96

**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? Yes \_\_\_\_\_

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? Yes \_\_\_\_\_

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

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

**ADDITIONAL NOTES**

**A. NOTES**

*No notes entered for this annual report.*

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

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

CERTIFICATION

A. OWNER AND/OR OPERATOR CERTIFICATION

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

Mary Brasil 7/25/24

Carl Albert Brasil, Jr.

SIGNATURE OF OWNER OF FACILITY

SIGNATURE OF OPERATOR OF FACILITY

Mary Brasil

Carl Albert Brasil, Jr.

PRINT OR TYPE NAME

PRINT OR TYPE NAME

DATE

DATE

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

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

**ATTACHMENTS**

**A. REQUIRED ATTACHMENTS**

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

**Annual Dairy Facility Assessment**

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

**Manure/Process Wastewater Tracking Manifests**

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

**Written Agreements**

Provide copies of all new or revised written agreements with each third party that receives solid manure or process wastewater from the Discharger for its own use.

**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.