

DAIRY FACILITY INFORMATION

A. NAME OF DAIRY OR BUSINESS OPERATING THE DAIRY:

Bear Mountain Dairy

Physical address of dairy:

4551 Bear Mountain Blvd Number and Street	Bakersfield City	Kern County	93313 Zip Code
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Street and nearest cross street (if no address): _____

Date facility was originally placed in operation: 01-01-2000

Regional Water Quality Control Board Basin Plan designation: Tulare Basin

County Assessor Parcel Number(s) for dairy facility:

0184-0450-0033-0000	0184-0450-0048-0000	0184-0450-0050-0000	0184-0450-0051-0000	0184-0450-0052-0000	0184-0450-0053-0000
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B. OPERATORS

Ramon Echeverria

Operator Name: <u>Ramon Echeverria</u>	Telephone no.: <u>(661) 074-7063</u>
	Landline Cellular
4551 Bear Mountain Blvd Mailing Address Number and Street	Bakersfield City
	Kern County
	93313 Zip Code

C. OWNERS

Ramon Echeverria

Owner Name: <u>Ramon Echeverria</u>	Telephone no.: <u>(661) 074-7063</u>
	Landline Cellular
4551 Bear Mountain Blvd Mailing Address Number and Street	Bakersfield City
	Kern County
	93313 Zip Code

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	2,548	623	898	988	392	374
Number under roof	0	0	0	0	0	0
Maximum number	2,550	630	915	1,010	400	380
Average number	2,548	623	898	988	392	374
Average live weight (lbs)	1400	1450	1000	300		

Predominant milk cow breed: Holsteins
 Average Milk Production: 70 pounds per cow per day

B. MANURE GENERATED

Total manure excreted by the herd:	<u>94,561.99 tons per reporting period</u>		
Total nitrogen from manure:	<u>1,186,369.99 lbs per reporting period</u>	After ammonia losses (30% loss applied):	<u>830,459.00 lbs per reporting period</u>
Total phosphorus from manure:	<u>192,735.09 lbs per reporting period</u>		
Total potassium from manure:	<u>487,965.51 lbs per reporting period</u>		
Total salt from manure:	<u>1,342,984.65 lbs per reporting period</u>		

C. PROCESS WASTEWATER GENERATED

Process wastewater generated:	<u>21,752,778.98 gallons</u>
Total nitrogen generated:	<u>59,700.73 lbs</u>
Total phosphorus generated:	<u>114,531,007.50 lbs</u>
Total potassium generated:	<u>144,444.05 lbs</u>
Total salt generated:	<u>1,017,311.68 lbs</u>

$$\begin{aligned}
 & 21,752,778.98 \text{ gallons applied} \\
 + & 0 \text{ gallons exported} \\
 - & 0 \text{ gallons imported} \\
 = & 21,752,778.98 \text{ gallons generated}
 \end{aligned}$$

D. FRESH WATER SOURCES

Source Description	Type
BM-DW2	Ground Water
Canal - Kern Island	Surface Water
W300-12	Ground Water
W300-2	Ground Water
W300-7	Ground Water
W300-8	Ground Water
W300-9	Ground Water

E. SUBSURFACE (TILE) DRAINAGE SOURCES

No fresh water 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 (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	TFS (%)
02/18/2023	Separator solids	5,741 tons	as-is	67.4	24,400.00	9,270.00	24,660.00	30.00
06/13/2023	Separator solids	3,165 tons	as-is	68.2	20,110.00	7,250.00	14,770.00	35.00
06/25/2023	Separator solids	3,198 tons	as-is	69.4	20,110.00	7,250.00	14,770.00	35.00
06/25/2023	Separator solids	4,216 tons	as-is	63.8	20,110.00	7,250.00	14,770.00	35.00
08/19/2023	Separator solids	5,508 tons	as-is	67.8	20,110.00	7,250.00	14,770.00	35.00
09/05/2023	Separator solids	11,563 tons	as-is	68.2	20,110.00	7,250.00	14,770.00	35.00
09/22/2023	Separator solids	7,345 tons	as-is	70.1	17,800.00	5,550.00	18,920.00	50.00
11/27/2023	Separator solids	1,211 tons	as-is	65.4	17,800.00	5,550.00	18,920.00	50.00
12/11/2023	Separator solids	8,326 tons	as-is	68.4	17,800.00	5,550.00	18,920.00	50.00

No process wastewater nutrient exports entered.

Material type	N (lbs)	P (lbs)	K (lbs)	TDS (%)
Dry Manure	1,993,243.00	694,753.34	1,738,742.00	39,681,600.00
Process wastewater	0.00	0.00	0.00	0.00
Total exports for all materials	1,993,243.00	694,753.34	1,738,742.00	39,681,600.00

APPLICATION AREA

A. LIST OF LAND APPLICATION AREAS

Field name	Controlled acres	Cropable acres	Total harvests	Type of waste applied	Parcel number
36-3	78.38	78.00	1	BOTH	0184-0450-0052-0000
36-4	74.06	71.84	1	BOTH	0184-0450-0052-0000
36-5	80.44	78.00	8	NONE	0184-0450-0050-0000
36-6	83.59	81.08	8	NONE	0184-0450-0051-0000
36-7	86.08	84.00	1	BOTH	0184-0450-0053-0000
36-8	86.56	86.00	1	BOTH	0184-0450-0053-0000
36-1	61.67	56.00	1	BOTH	0184-0450-0048-0000, 0184-0450-0050-0000
36-2	76.77	74.47	8	PROCESS WASTEWATER	0184-0450-0051-0000
Totals for areas that were used for application	627.55	609.39	29.00		
Totals for areas that were not used for application	18.16	18.16			
Land application area totals	627.55	627.55	29.00		

B. CROPS AND HARVESTS

35-9

Field Name: 35-9

05/01/2023: Corn Silage

Crop:

Corn Silage

Acres planted:

36.19

Plant date:

05/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/07/2023	718.73 ton	As-is		0.00	5,288.50	1,123.50	6,380.50	45.50	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	28.00	1,008.00	212.80	1,120.00	560.00
Total actual harvest content	19.86	210.06	44.63	253.43	0.00

Field Name: 36-3

11/06/2022: Triticale

Crop: Triticale Acres planted: 78 Plant date: 11/06/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
04/28/2023	1,436.53 ton	As-is		0.00	6,332.40	961.20	7,052.40	363.60	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	26.00	358.80	44.20	195.00	520.00
Total actual harvest content	18.42	233.25	35.40	259.77	0.00

Field Name: 36-4**11/09/2022: Triticale**Crop: Triticale Acres planted: 71.84 Plant date: 11/09/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/01/2023	1,423.94 ton	As-is		0.00	5,637.60	900.00	7,041.60	428.40	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	26.00	358.80	44.20	195.00	520.00
Total actual harvest content	19.82	223.49	35.68	279.14	0.00

Field Name: 36-7**11/07/2022: Triticale**

Crop: Triticale Acres planted: 84 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 (%)
04/29/2023	1,498.31 ton	As-is		0.00	6,375.60	982.80	6,469.20	284.40	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	26.00	358.80	44.20	195.00	520.00
Total actual harvest content	17.84	227.44	35.06	230.78	0.00

Field Name: 36-8

11/09/2022: Triticale

Crop: Triticale Acres planted: 86 Plant date: 11/09/2022

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
05/01/2023	1,714.41 ton	As-is		0.00	5,702.40	874.80	6,130.80	248.40	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	26.00	358.80	44.20	195.00	520.00
Total actual harvest content	19.93	227.35	34.88	244.43	0.00

Field Name: 36-1**11/01/2022: Triticale**

Crop: Triticale 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 (%)
05/07/2023	1,063.44 ton	As-is		0.00	5,637.60	900.00	7,041.60	428.40	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	26.00	358.80	44.20	195.00	520.00
Total actual harvest content	18.99	214.12	34.18	267.44	0.00

Field Name: 36-5

01/02/2019: Alfalfa

Crop: Alfalfa

Acres planted: 78

Plant date: 01/02/2019

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
04/05/2023	105.30 ton	As-is		0.00	10,315.50	2,042.40	11,267.70	48.30	0.00
05/06/2023	95.94 ton	As-is		0.00	10,315.50	2,042.40	11,267.70	48.30	0.00
06/05/2023	103.74 ton	As-is		0.00	10,315.50	2,042.40	11,267.70	48.30	0.00
07/04/2023	110.76 ton	As-is		0.00	10,315.50	2,042.40	11,267.70	48.30	0.00
08/03/2023	121.68 ton	As-is		0.00	10,315.50	2,042.40	11,267.70	48.30	0.00
09/01/2023	109.20 ton	As-is		0.00	10,315.50	2,042.40	11,267.70	48.30	0.00
09/29/2023	101.40 ton	As-is		0.00	10,315.50	2,042.40	11,267.70	48.30	0.00
10/31/2023	78.00 ton	As-is		0.00	10,315.50	2,042.40	11,267.70	48.30	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	12.00	720.00	64.80	504.00	240.00
Total actual harvest content	10.59	218.48	43.26	238.65	0.00

Field Name: 36-6

10/15/2020: Alfalfa

Crop: Alfalfa Acres planted: 81.08 Plant date: 10/15/2020

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
03/30/2023	109.46 ton	As-is		0.00	10,315.50	2,042.40	11,267.70	48.30	0.00
04/30/2023	97.30 ton	As-is		0.00	10,315.50	2,042.40	11,267.70	48.30	0.00
05/30/2023	109.46 ton	As-is		0.00	10,315.50	2,042.40	11,267.70	48.30	0.00
06/28/2023	115.94 ton	As-is		0.00	10,315.50	2,042.40	11,267.70	48.30	0.00
07/28/2023	124.86 ton	As-is		0.00	10,315.50	2,042.40	11,267.70	48.30	0.00
08/26/2023	113.51 ton	As-is		0.00	10,315.50	2,042.40	11,267.70	48.30	0.00
09/23/2023	105.40 ton	As-is		0.00	10,315.50	2,042.40	11,267.70	48.30	0.00
10/25/2023	81.08 ton	As-is		0.00	10,315.50	2,042.40	11,267.70	48.30	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	12.00	720.00	64.80	504.00	240.00
Total actual harvest content	10.57	218.07	43.18	238.20	0.00

Field Name: 36-3

05/01/2023: Corn Silage

Crop: Corn Silage Acres planted: 78 Plant date: 05/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/09/2023	1,517.41 ton	As-is		0.00	4,441.50	955.50	4,882.50	24.50	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	28.00	1,008.00	212.80	1,120.00	560.00
Total actual harvest content	19.45	172.81	37.18	189.97	0.00

Field Name: 36-4

05/01/2023: Corn Silage

Crop: Corn Silage Acres planted: 71.84 Plant date: 05/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/06/2023	1,719.49 ton	As-is		0.00	5,348.00	948.50	6,132.00	31.50	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	28.00	1,008.00	212.80	1,120.00	560.00
Total actual harvest content	23.93	256.01	45.40	293.54	0.00

Field Name: 36-7

05/01/2023: Corn Silage

Crop: Corn Silage Acres planted: 84 Plant date: 05/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
08/15/2023	2,355.61 ton	As-is		0.00	5,008.50	773.50	5,761.00	28.00	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	28.00	1,008.00	212.80	1,120.00	560.00
Total actual harvest content	28.04	280.91	43.38	323.11	0.00

Field Name: 36-8

05/01/2023: Corn Silage

Crop: Corn Silage Acres planted: 86 Plant date: 05/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
09/14/2023	2,217.68 ton	As-is		0.00	4,893.00	924.00	6,566.00	31.50	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	28.00	1,008.00	212.80	1,120.00	560.00
Total actual harvest content	25.79	252.35	47.65	338.63	0.00

Field Name: 36-2

05/01/2023: Corn Silage

Crop: Corn Silage Acres planted: 74.47 Plant date: 05/01/2023

Harvest date	Yield	Reporting basis	Density (lbs/cu ft)	Moisture (%)	N (mg/kg)	P (mg/kg)	K (mg/kg)	Salt (mg/kg)	TFS (%)
10/17/2023	1,463.71 ton	As-is		0.00	4,595.50	1,011.50	5,649.00	35.00	0.00

	Yield (tons/acre)	Total N (lbs/acre)	Total P (lbs/acre)	Total K (lbs/acre)	Salt (lbs/acre)
Anticipated harvest content	28.00	1,008.00	212.80	1,120.00	560.00
Total actual harvest content	19.66	180.65	39.76	222.06	0.00

NUTRIENT BUDGET

A. LAND APPLICATIONS

35-9

Field name: 35-9 Crop: Corn Silage Plant date: 05/01/2023

05/01/2023: Corn Silage

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following
04/20/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Atmospheric Deposition	Atmospheric deposition	14.00	0.00	0.00	0.00	506.66 <i>Lbs</i>
Application event totals		14.00	0.00	0.00	0.00	

05/10/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.00	1,154.77	28,753.68	109.70	5,007,908.02 <i>gal</i>
Application event totals		0.00	1,154.77	28,753.68	109.70	

05/25/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.00	1,144.34	28,494.14	108.71	4,962,703.66 <i>gal</i>
Lagoon Water Effluent	Process wastewater	46.62	86,217.73	122.57	871.10	644,660.11 <i>gal</i>
Application event totals		46.62	87,362.07	28,616.71	979.81	

06/08/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.00	1,359.62	33,854.42	129.16	5,896,281.35 <i>gal</i>
Lagoon Water Effluent	Process wastewater	59.34	109,743.60	156.01	1,108.79	820,565.80 <i>gal</i>
Application event totals		59.34	111,103.22	34,010.43	1,237.95	

06/22/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Effluent	Process wastewater	61.40	113,555.06	161.43	1,147.30	849,064.54 <i>gal</i>
Well Water	Ground water	0.00	1,390.43	1.62	337.18	6,029,930.55 <i>gal</i>
Application event totals		61.40	114,945.49	163.05	1,484.48	

07/06/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.00	1,417.17	1.65	343.66	6,145,890.78 gal
Lagoon Water Effluent	Process wastewater	67.51	124,857.99	177.50	1,261.50	933,577.87 gal
Application event totals		67.51	126,275.16	179.15	1,605.16	
07/20/2023	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
Well Water	Ground water	0.00	1,189.66	1.39	288.49	5,159,246.18 gal
Application event totals		0.00	1,189.66	1.39	288.49	

Field name: 36-1 Crop: Triticale Plant date: 11/01/2022

11/01/2022: Triticale

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following
10/15/2022	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
Corral Solids	Corral Solids	190.71	68.08	214.47	2,266.64	224.00 ton
Application event totals		190.71	68.08	214.47	2,266.64	
11/01/2022	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
Well Water	Ground water	0.76	1,099.02	1.93	383.56	7,375,103.82 gal
Application event totals		0.76	1,099.02	1.93	383.56	
11/27/2022	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.70	1,019.71	1.79	355.88	6,842,879.97 gal
Lagoon Water Effluent	Process wastewater	25.68	56,599.87	46.90	393.53	407,531.53 gal
Application event totals		26.38	57,619.58	48.69	749.41	
12/27/2022	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.35	0.00	26,506.74	183.87	6,669,526.52 gal
Application event totals		0.35	0.00	26,506.74	183.87	
01/22/2023	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
Well Water	Ground water	0.00	1,196.46	1.40	290.14	8,028,979.49 gal
Application event totals		0.00	1,196.46	1.40	290.14	
02/17/2023	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
Lagoon Water Effluent	Process wastewater	29.21	61,547.51	47.69	250.89	526,141.42 gal
Canal Water	Ground water	0.00	940.40	23,415.97	89.34	6,310,656.12 gal
Application event totals		29.21	62,487.91	23,463.66	340.23	

03/04/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.00	1,008.38	1.18	244.53	6,766,847.68 gal
Application event totals		0.00	1,008.38	1.18	244.53	
03/25/2023	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
Lagoon Water Effluent	Process wastewater	20.94	44,114.98	34.18	179.83	377,118.71 gal
Canal Water	Ground water	0.00	929.07	23,133.85	88.26	6,234,623.83 gal
Application event totals		20.94	45,044.05	23,168.03	268.09	

Field name: 36-2

Crop: Corn Silage

Plant date: 05/01/2023

05/01/2023: Corn Silage

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following
04/20/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Atmospheric Deposition	Atmospheric deposition	14.00	0.00	0.00	0.00	1,042.58 Lbs
Application event totals		14.00	0.00	0.00	0.00	
05/01/2023	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
Well Water	Ground water	0.00	1,190.12	1.39	288.60	10,620,487.40 gal
Application event totals		0.00	1,190.12	1.39	288.60	
05/05/2023	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
Well Water	Ground water	0.00	1,155.67	1.35	280.25	10,313,116.18 gal
Application event totals		0.00	1,155.67	1.35	280.25	
05/16/2023	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 Water	Ground water	0.00	1,110.35	27,647.77	105.48	9,908,680.63 gal
Application event totals		0.00	1,110.35	27,647.77	105.48	
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
Well Water	Ground water	0.00	1,359.62	1.59	329.71	12,133,078.09 gal
Lagoon Water Effluent	Process wastewater	78.17	144,572.41	205.53	1,460.68	2,224,397.70 gal
Application event totals		78.17	145,932.03	207.12	1,790.39	
06/13/2023	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
Lagoon Water Effluent	Process wastewater	87.41	161,658.24	229.82	1,633.31	2,487,281.05 gal
Canal Water	Ground water	0.00	1,363.69	33,955.98	129.55	12,169,477.58 gal
Application event totals		87.41	163,021.93	34,185.80	1,762.86	

06/27/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.00	1,323.59	1.55	320.97	11,811,551.68 gal
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	372.35 Gal.
Application event totals		17.70	1,323.59	1.55	320.97	

07/11/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.00	1,178.33	29,340.49	111.94	10,515,333.96 gal
Application event totals		0.00	1,178.33	29,340.49	111.94	

Field name: 36-3

Crop: Corn Silage

Plant date: 05/01/2023

05/01/2023: Corn Silage

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following
04/20/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Corral Solids	Corral Solids	103.49	29.58	90.55	3,586.80	390.00 ton
Atmospheric Deposition	Atmospheric deposition	14.00	0.00	0.00	0.00	1,092.00 Lbs
Application event totals		117.49	29.58	90.55	3,586.80	
05/01/2023	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
Canal Water	Ground water	0.00	1,190.12	29,633.90	113.06	11,123,915.71 gal
Application event totals		0.00	1,190.12	29,633.90	113.06	
05/05/2023	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
Well Water	Ground water	0.75	1,155.67	18,259.63	135.79	10,801,974.61 gal
Application event totals		0.75	1,155.67	18,259.63	135.79	
05/16/2023	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 Water	Ground water	0.00	1,155.67	28,776.25	109.79	10,801,974.61 gal
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	390.00 Gal.
Application event totals		17.70	1,155.67	28,776.25	109.79	
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
Lagoon Water Effluent	Process wastewater	62.32	115,263.63	163.86	1,164.56	1,857,516.01 gal
Canal Water	Ground water	0.00	1,373.21	34,192.96	130.46	12,835,287.60 gal
Application event totals		62.32	116,636.84	34,356.82	1,295.02	
06/13/2023	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

Lagoon Water Effluent	Process wastewater	12.72	23,525.87	33.44	237.69	379,128.15 gal
Well Water	Ground water	0.86	1,336.95	21,123.89	157.09	12,496,402.44 gal
Application event totals		13.58	24,862.82	21,157.33	394.78	
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
Well Water	Ground water	0.89	1,377.06	21,757.60	161.80	12,871,294.60 gal
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	390.00 Gal.
Application event totals		18.59	1,377.06	21,757.60	161.80	
07/11/2023		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
Well Water	Ground water	0.78	1,200.99	18,975.70	141.12	11,225,582.07 gal
Application event totals		0.78	1,200.99	18,975.70	141.12	

11/06/2022: Tricale						
Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following
10/15/2022	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
Corral Solids	Corral Solids	238.39	85.10	268.09	2,833.30	390.00 ton
Application event totals		238.39	85.10	268.09	2,833.30	
11/06/2022	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
Lagoon Water Effluent	Process wastewater	14.56	32,101.42	26.60	223.19	321,941.20 gal
Canal Water	Ground water	0.36	0.00	27,431.40	190.28	9,613,757.66 gal
Application event totals		14.92	32,101.42	27,458.00	413.47	
12/02/2022	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
Well Water	Ground water	1.04	929.07	1.47	235.36	8,683,940.33 gal
Application event totals		1.04	929.07	1.47	235.36	
01/01/2023	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

Canal Water	Ground water	0.00	1,019.71	25,390.81	96.87	9,531,154.25 gal
Application event totals		0.00	1,019.71	25,390.81	96.87	

01/27/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.00	1,114.88	27,760.62	105.91	10,420,728.80 gal
Application event totals		0.00	1,114.88	27,760.62	105.91	

02/22/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	390.00 Gal.
Well Water	Ground water	0.64	997.05	15,753.41	117.15	9,319,351.02 gal
Application event totals		18.34	997.05	15,753.41	117.15	

03/09/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.59	906.41	14,321.28	106.50	8,472,137.11 gal
Lagoon Water Effluent	Process wastewater	18.41	38,778.49	30.05	158.08	461,731.46 gal
Application event totals		19.00	39,684.90	14,351.33	264.58	

03/30/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.64	985.72	15,574.39	115.82	9,213,448.90 gal
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	24.77	0.00	0.00	0.00	546.00 Gal.
Application event totals		25.41	985.72	15,574.39	115.82	

Field name: 36-4

Crop: Corn Silage

Plant date: 05/01/2023

05/01/2023: Corn Silage

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following
04/20/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Corral Solids	Corral Solids	103.49	29.58	90.55	3,586.80	359.20 ton
Atmospheric Deposition	Atmospheric deposition	14.00	0.00	0.00	0.00	1,005.76 Lbs
Application event totals		117.49	29.58	90.55	3,586.80	
05/01/2023	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
Well Water	Ground water	0.76	1,178.33	18,617.66	138.45	10,143,971.27 gal
Application event totals		0.76	1,178.33	18,617.66	138.45	
05/05/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.00	1,121.68	27,929.89	106.56	9,656,280.33 gal
Application event totals		0.00	1,121.68	27,929.89	106.56	
05/16/2023	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 Water	Ground water	0.00	1,110.35	27,647.77	105.48	9,558,742.70 gal
Lagoon Water Effluent	Process wastewater	55.86	103,303.56	146.86	1,043.72	1,533,300.36 gal
Application event totals		55.86	104,413.91	27,794.63	1,149.20	
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
Lagoon Water Effluent	Process wastewater	67.23	124,332.27	176.75	1,256.18	1,845,422.49 gal
Well Water	Ground water	0.87	1,346.02	21,267.10	158.16	11,587,536.95 gal
Application event totals		68.10	125,678.29	21,443.85	1,414.34	
06/13/2023	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
Lagoon Water Effluent	Process wastewater	70.64	130,640.89	185.72	1,319.92	1,939,059.23 gal
Canal Water	Ground water	0.00	1,363.69	33,955.98	129.55	11,739,696.66 gal

Application event totals		70.64	132,004.58	34,141.70	1,449.47	
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06/27/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.89	1,377.06	21,757.60	161.80	11,854,791.75 gal
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	359.20 Gal.
Application event totals		18.59	1,377.06	21,757.60	161.80	

07/11/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.77	1,189.66	18,796.68	139.79	10,241,509.83 gal
Application event totals		0.77	1,189.66	18,796.68	139.79	

11/09/2022: Triticale

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following
10/15/2022	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
Corral Solids	Corral Solids	238.39	85.10	268.09	2,833.30	359.20 ton
Application event totals		238.39	85.10	268.09	2,833.30	

11/09/2022	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.39	0.00	29,310.92	203.32	9,461,204.14 gal
Application event totals		0.39	0.00	29,310.92	203.32	

12/05/2022	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Effluent	Process wastewater	13.22	29,144.71	24.15	202.64	269,205.39 gal
Canal Water	Ground water	0.35	0.00	26,591.35	184.45	8,583,360.81 gal
Application event totals		13.57	29,144.71	26,615.50	387.09	

01/04/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.59	917.74	14,500.30	107.83	7,900,593.67 gal

Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	359.20 Gal.
Application event totals		18.29	917.74	14,500.30	107.83	

01/30/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.74	1,143.44	18,066.29	134.35	9,843,554.03 gal
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	359.20 Gal.
Application event totals		18.44	1,143.44	18,066.29	134.35	

02/25/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.63	974.39	15,395.38	114.49	8,388,284.62 gal
Application event totals		0.63	974.39	15,395.38	114.49	

03/12/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.64	985.72	15,574.39	115.82	8,485,822.25 gal
Application event totals		0.64	985.72	15,574.39	115.82	

04/02/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Effluent	Process wastewater	13.68	28,817.04	22.33	117.47	316,023.73 gal
Canal Water	Ground water	0.00	1,132.56	28,200.73	107.59	9,749,917.65 gal
Application event totals		13.68	29,949.60	28,223.06	225.06	

Field name: 36-5 Crop: Alfalfa Plant date: 01/02/2019

01/02/2019: Alfalfa

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following
01/01/2023	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
Atmospheric Deposition	Atmospheric deposition	14.00	0.00	0.00	0.00	1,092.00 <i>Lbs</i>
Application event totals		14.00	0.00	0.00	0.00	
02/14/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.00	1,107.63	27,580.06	105.23	10,352,951.57 <i>gal</i>
Application event totals		0.00	1,107.63	27,580.06	105.23	
03/11/2023	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
Well Water	Ground water	0.71	1,099.02	17,364.55	129.14	10,272,466.04 <i>gal</i>
Application event totals		0.71	1,099.02	17,364.55	129.14	
04/03/2023	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 Water	Ground water	0.00	1,099.02	27,365.65	104.41	10,272,466.04 <i>gal</i>
Application event totals		0.00	1,099.02	27,365.65	104.41	
05/04/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.75	1,155.67	18,259.63	135.79	10,801,974.61 <i>gal</i>
Application event totals		0.75	1,155.67	18,259.63	135.79	
06/02/2023	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 Water	Ground water	0.00	1,155.67	28,776.25	109.79	10,801,974.61 <i>gal</i>
Application event totals		0.00	1,155.67	28,776.25	109.79	
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

Well Water	Ground water	0.75	1,167.00	18,438.65	137.12	10,907,876.73 gal
Application event totals		0.75	1,167.00	18,438.65	137.12	

08/01/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.93	1,441.19	22,770.83	169.34	13,470,698.28 gal
Application event totals		0.93	1,441.19	22,770.83	169.34	

08/29/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.00	1,441.19	35,885.68	136.91	13,470,698.28 gal
Application event totals		0.00	1,441.19	35,885.68	136.91	

09/26/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.89	1,373.21	21,696.74	161.35	12,835,287.60 gal
Application event totals		0.89	1,373.21	21,696.74	161.35	

10/28/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.87	1,346.02	21,267.10	158.16	12,581,123.73 gal
Application event totals		0.87	1,346.02	21,267.10	158.16	

Field name: 36-6 Crop: Alfalfa Plant date: 10/15/2020

10/15/2020: Alfalfa

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following
01/01/2023	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
Atmospheric Deposition	Atmospheric deposition	14.00	0.00	0.00	0.00	1,135.12 Lbs
Application event totals		14.00	0.00	0.00	0.00	
02/14/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.00	954.45	23,765.80	90.67	9,273,431.81 gal
Application event totals		0.00	954.45	23,765.80	90.67	
03/11/2023	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
Canal Water	Ground water	0.00	1,065.03	26,519.29	101.18	10,347,846.35 gal
Application event totals		0.00	1,065.03	26,519.29	101.18	
04/03/2023	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
Well Water	Ground water	0.70	1,076.36	17,006.52	126.47	10,457,930.25 gal
Application event totals		0.70	1,076.36	17,006.52	126.47	
05/04/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.73	1,133.01	17,901.60	133.13	11,008,347.63 gal
Application event totals		0.73	1,133.01	17,901.60	133.13	
06/02/2023	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
Well Water	Ground water	0.73	1,133.01	17,901.60	133.13	11,008,347.63 gal
Application event totals		0.73	1,133.01	17,901.60	133.13	
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

Canal Water	Ground water	0.00	1,178.33	29,340.49	111.94	11,448,681.12 gal
Application event totals		0.00	1,178.33	29,340.49	111.94	

08/01/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.91	1,414.00	22,341.19	166.14	13,738,417.34 gal
Application event totals		0.91	1,414.00	22,341.19	166.14	

08/29/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.91	1,400.40	22,126.38	164.55	13,606,317.29 gal
Application event totals		0.91	1,400.40	22,126.38	164.55	

09/26/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.00	1,346.02	33,515.87	127.87	13,077,917.11 gal
Application event totals		0.00	1,346.02	33,515.87	127.87	

10/28/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.85	1,318.83	20,837.46	154.96	12,813,717.02 gal
Application event totals		0.85	1,318.83	20,837.46	154.96	

Field name: 36-7

Crop: Corn Silage

Plant date: 05/01/2023

05/01/2023: Corn Silage

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following
04/20/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.38	0.00	29,008.75	201.22	10,948,608.39 gal
Corral Solids	Corral Solids	206.98	59.15	181.10	7,173.60	840.00 ton
Application event totals		207.36	59.15	29,189.85	7,374.82	
04/22/2023	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
Atmospheric Deposition	Atmospheric deposition	14.00	0.00	0.00	0.00	1,176.00 Lbs
Application event totals		14.00	0.00	0.00	0.00	
05/03/2023	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 Water	Ground water	0.00	1,201.90	29,927.30	114.18	12,098,211.56 gal
Application event totals		0.00	1,201.90	29,927.30	114.18	
05/16/2023	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
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	53.09	0.00	0.00	0.00	1,260.00 Gal.
Application event totals		53.09	0.00	0.00	0.00	
05/21/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.74	1,144.34	18,080.62	134.46	11,518,848.39 gal
Application event totals		0.74	1,144.34	18,080.62	134.46	
06/01/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.00	1,155.67	28,776.25	109.79	11,632,895.73 gal
Application event totals		0.00	1,155.67	28,776.25	109.79	
06/15/2023	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
Lagoon Water Effluent	Process wastewater	16.84	31,148.78	44.28	314.71	540,587.53 gal
Well Water	Ground water	0.87	1,346.02	21,267.10	158.16	13,548,902.47 gal
Application event totals		17.71	32,494.80	21,311.38	472.87	
06/29/2023	Surface (Irrigation)		No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.88	1,363.69	21,546.37	160.23	13,726,817.51 gal
Lagoon Water Effluent	Process wastewater	14.07	26,023.03	36.99	262.92	451,630.08 gal
Application event totals		14.95	27,386.72	21,583.36	423.15	
07/15/2023	Surface (Irrigation)		No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.00	1,323.59	32,957.27	125.74	13,323,087.49 gal
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	53.09	0.00	0.00	0.00	1,260.00 Gal.
Application event totals		53.09	1,323.59	32,957.27	125.74	
07/29/2023	Surface (Irrigation)		No precipitation	No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.78	1,200.99	18,975.70	141.12	12,089,088.38 gal
Application event totals		0.78	1,200.99	18,975.70	141.12	

11/07/2022: Tricale

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following
10/15/2022	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
Corral Solids	Corral Solids	238.39	85.10	268.09	2,833.30	420.00 ton
Application event totals		238.39	85.10	268.09	2,833.30	
11/07/2022	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
Canal Water	Ground water	0.37	0.00	28,404.40	197.03	10,720,511.52 gal
Application event totals		0.37	0.00	28,404.40	197.03	

12/03/2022	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Lagoon Water Effluent	Process wastewater	13.60	29,989.48	24.85	208.51	323,896.33 gal
Well Water	Ground water	1.08	963.06	1.52	243.98	9,694,079.96 gal
Application event totals		14.68	30,952.54	26.37	452.49	

01/02/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.60	929.07	14,679.31	109.17	9,351,935.74 gal
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	420.00 Gal.
Application event totals		18.30	929.07	14,679.31	109.17	

01/28/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.72	1,117.15	17,650.98	131.27	11,245,133.45 gal
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	420.00 Gal.
Application event totals		18.42	1,117.15	17,650.98	131.27	

02/23/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.72	1,110.35	17,543.57	130.47	11,176,704.17 gal
Application event totals		0.72	1,110.35	17,543.57	130.47	

03/10/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.00	1,042.37	25,955.05	99.03	10,492,415.74 gal
Application event totals		0.00	1,042.37	25,955.05	99.03	

03/31/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
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Lagoon Water Effluent	Process wastewater	16.38	34,509.30	26.74	140.67	442,506.25 gal
Canal Water	Ground water	0.00	959.21	23,884.29	91.12	9,655,303.19 gal
Application event totals		16.38	35,468.51	23,911.03	231.79	

Field name: 36-8

Crop: Corn Silage

Plant date: 05/01/2023

05/01/2023: Corn Silage

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following
04/20/2023	Surface (Irrigation)	No precipitation		No precipitation		No precipitation
Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Corral Solids	Corral Solids	206.98	59.15	181.10	7,173.60	860.00 ton
Atmospheric Deposition	Atmospheric deposition	14.00	0.00	0.00	0.00	1,204.00 Lbs
Application event totals		220.98	59.15	181.10	7,173.60	
05/01/2023	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
Canal Water	Ground water	0.00	1,110.81	27,659.06	105.53	11,447,486.37 gal
Application event totals		0.00	1,110.81	27,659.06	105.53	
05/05/2023	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
Well Water	Ground water	0.69	1,064.58	16,820.34	125.09	10,971,091.60 gal
Application event totals		0.69	1,064.58	16,820.34	125.09	
05/16/2023	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 Water	Ground water	0.00	1,402.90	34,932.12	133.28	14,457,647.63 gal
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	35.39	0.00	0.00	0.00	860.00 Gal.
Application event totals		35.39	1,402.90	34,932.12	133.28	
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
Lagoon Water Effluent	Process wastewater	13.64	25,234.46	35.87	254.96	448,371.57 gal
Well Water	Ground water	0.95	1,465.21	23,150.35	172.16	15,099,846.71 gal
Application event totals		14.59	26,699.67	23,186.22	427.12	
06/13/2023	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

Lagoon Water Effluent	Process wastewater	18.62	34,434.52	48.95	347.91	611,840.35 gal
Canal Water	Ground water	0.00	1,450.26	36,111.38	137.77	14,945,719.02 gal
Application event totals		18.62	35,884.78	36,160.33	485.68	
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
Well Water	Ground water	0.98	1,507.81	23,823.45	177.17	15,538,876.55 gal
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	35.39	0.00	0.00	0.00	860.00 Gal.
Application event totals		36.37	1,507.81	23,823.45	177.17	
07/11/2023	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
Well Water	Ground water	0.75	1,166.32	18,427.91	137.04	12,019,626.90 gal
Application event totals		0.75	1,166.32	18,427.91	137.04	

11/09/2022: Tricale

Application date	Application method	Precipitation 24 hours prior		Precipitation during application		Precipitation 24 hours following
10/15/2022	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
Corral Solids	Corral Solids	238.39	85.10	268.09	2,833.30	430.00 ton
Application event totals		238.39	85.10	268.09	2,833.30	
11/09/2022	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
Canal Water	Ground water	0.31	0.00	23,333.91	161.86	9,016,472.06 gal
Application event totals		0.31	0.00	23,333.91	161.86	
12/05/2022	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
Well Water	Ground water	1.16	1,041.69	1.64	263.90	10,735,229.86 gal
Lagoon Water Effluent	Process wastewater	15.43	34,002.16	28.18	236.41	375,978.23 gal
Application event totals		16.59	35,043.85	29.82	500.31	
01/04/2023	Surface (Irrigation)		No precipitation	No precipitation		No precipitation

Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	430.00 Gal.
Canal Water	Ground water	0.00	852.25	21,221.08	80.96	8,782,944.87 gal
Application event totals		17.70	852.25	21,221.08	80.96	

01/30/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Un 32	Commercial fertilizer / Other: Liquid commercial fertilizer	17.70	0.00	0.00	0.00	430.00 Gal.
Well Water	Ground water	0.75	1,162.24	18,363.46	136.56	11,977,592.89 gal
Application event totals		18.45	1,162.24	18,363.46	136.56	

02/25/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.74	1,139.58	18,005.43	133.90	11,744,065.14 gal
Application event totals		0.74	1,139.58	18,005.43	133.90	

03/12/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Canal Water	Ground water	0.00	894.40	22,270.56	84.97	9,217,305.07 gal
Application event totals		0.00	894.40	22,270.56	84.97	

04/02/2023	Surface (Irrigation)	No precipitation	No precipitation	No precipitation
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Source description	Material type	N (lbs/acre)	P (lbs/acre)	K (lbs/acre)	Salt (lbs/acre)	Amount
Well Water	Ground water	0.85	1,307.27	20,654.87	153.60	13,472,164.46 gal
Lagoon Water Effluent	Process wastewater	13.17	27,749.75	21.50	113.12	364,301.90 gal
Application event totals		14.02	29,057.02	20,676.37	266.72	

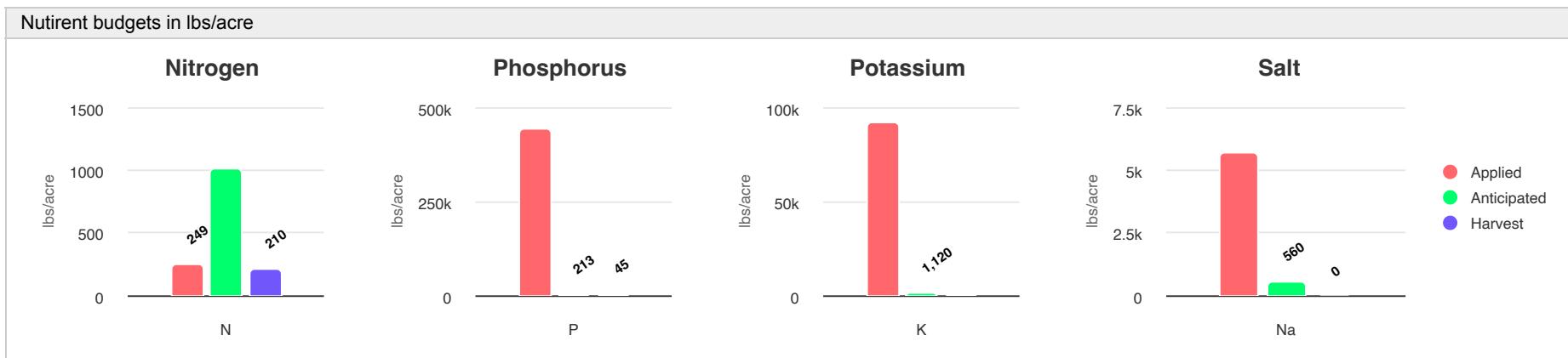
B. NUTRIENT BUDGET

35-9 - 05/01/2023: Corn Silage

Field name: 35-9

Crop: Corn Silage

Plant date: 05/01/2023



	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	234.87	434,374.38	617.51	4,388.69
Fresh water	0.00	7,655.99	91,106.90	1,316.90
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	248.87	442,030.37	91,724.41	5,705.59
Anticipated crop nutrient removal	1,008.00	212.80	1,120.00	560.00
Actual crop nutrient removal	210.06	44.63	253.43	0.00
Nutrient balance	38.81	441,985.74	91,470.98	5,705.59
Applied to removed ratio	1.18	9,905.35	361.93	0.00

Fresh water applied	
33,201,960.54	gallons
1,222.72	acre-inches
33.79	inches/acre

Process wastewater applied	
3,247,868.32	gallons
119.61	acre-inches
3.31	inches/acre

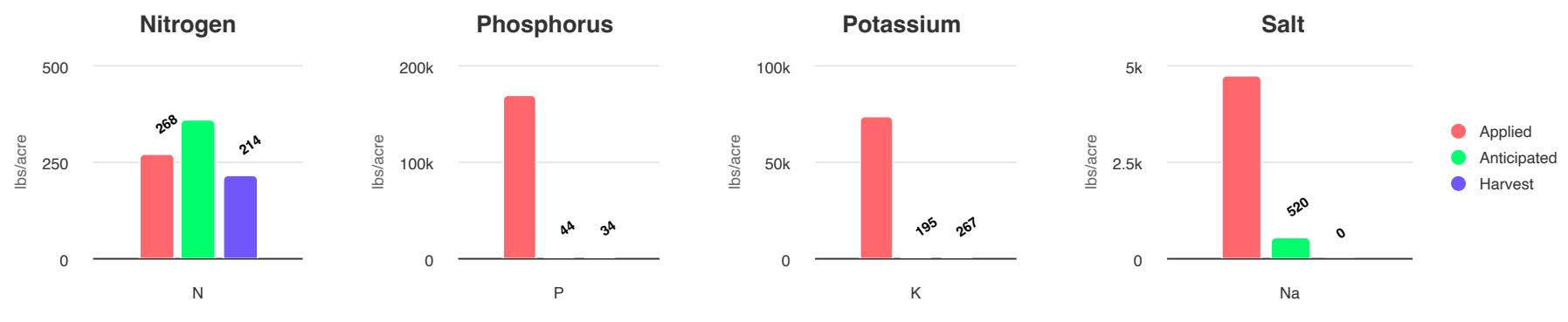
Total Harvests for the crop
1 harvests

Field name: 36-1

Crop: Triticale

Plant date: 11/01/2022

Nutrient budgets 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	190.71	68.08	214.47	2,266.64
Process wastewater	75.83	162,262.36	128.77	824.25
Fresh water	1.81	6,193.04	73,062.86	1,635.58
Atmospheric deposition	0.00	0.00	0.00	0.00
Total nutrients applied	268.35	168,523.48	73,406.10	4,726.47
Anticipated crop nutrient removal	358.80	44.20	195.00	520.00
Actual crop nutrient removal	214.12	34.18	267.44	0.00
Nutrient balance	54.23	168,489.30	73,138.66	4,726.47
Applied to removed ratio	1.25	4,930.18	274.48	0.00

Fresh water applied

48,228,617.43	gallons
1,776.10	acre-inches
31.72	inches/acre

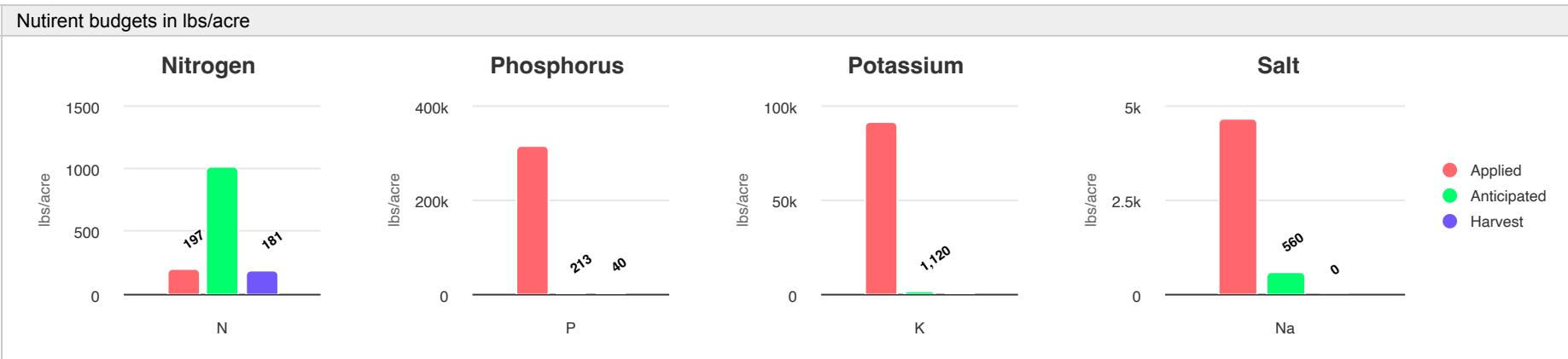
Process wastewater applied

1,310,791.66	gallons
48.27	acre-inches
0.86	inches/acre

Total Harvests for the crop

1	harvests
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Field name: 36-2 Crop: Corn Silage Plant date: 05/01/2023



	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	17.70	0.00	0.00	0.00
Dry manure	0.00	0.00	0.00	0.00
Process wastewater	165.58	306,230.65	435.35	3,093.99
Fresh water	0.00	8,681.37	90,950.12	1,566.50
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	197.28	314,912.02	91,385.47	4,660.49
Anticipated crop nutrient removal	1,008.00	212.80	1,120.00	560.00
Actual crop nutrient removal	180.65	39.76	222.06	0.00
Nutrient balance	16.63	314,872.26	91,163.41	4,660.49
Applied to removed ratio	1.09	7,919.91	411.53	0.00

Fresh water applied		
77,471,725.53	gallons	
2,853.02	acre-inches	
38.31	inches/acre	

Process wastewater applied		
4,711,678.75	gallons	
173.52	acre-inches	
2.33	inches/acre	

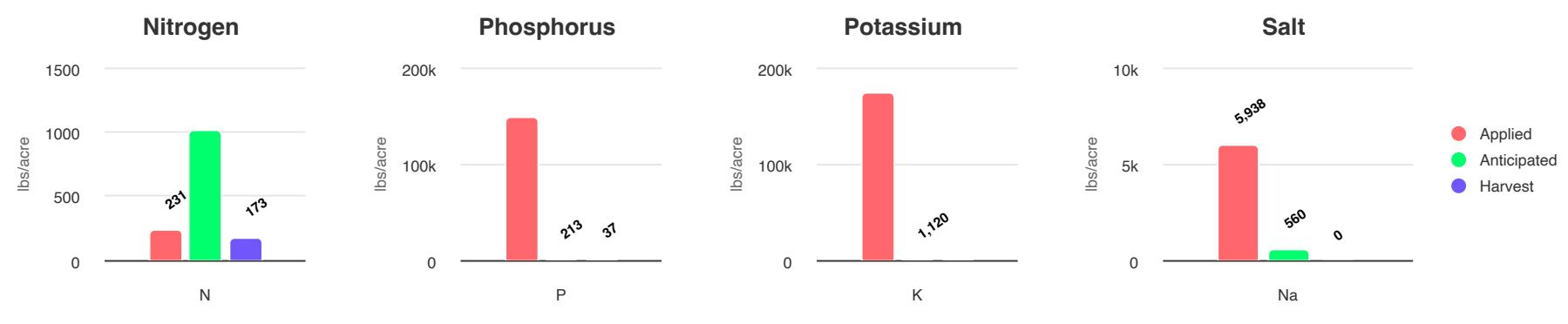
Total Harvests for the crop		
1	harvests	

Field name: 36-3

Crop: Corn Silage

Plant date: 05/01/2023

Nutrient budgets 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	35.40	0.00	0.00	0.00
Dry manure	103.49	29.58	90.55	3,586.80
Process wastewater	75.04	138,789.50	197.30	1,402.25
Fresh water	3.28	8,789.67	172,719.93	949.11
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	231.21	147,608.75	173,007.78	5,938.16
Anticipated crop nutrient removal	1,008.00	212.80	1,120.00	560.00
Actual crop nutrient removal	172.81	37.18	189.97	0.00
Nutrient balance	58.40	147,571.57	172,817.81	5,938.16
Applied to removed ratio	1.34	3,970.48	910.72	0.00

Fresh water applied

82,156,431.64	gallons
3,025.54	acre-inches
38.79	inches/acre

Process wastewater applied

2,236,644.15	gallons
82.37	acre-inches
1.06	inches/acre

Total Harvests for the crop

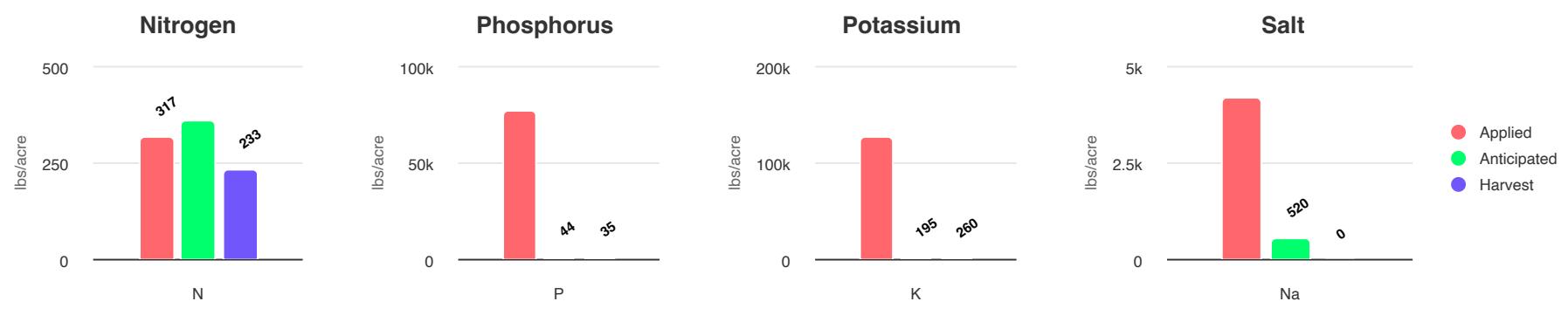
1	harvests
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Field name: 36-3

Crop: Triticale

Plant date: 11/06/2022

Nutrient budgets 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	42.47	0.00	0.00	0.00
Dry manure	238.39	85.10	268.09	2,833.30
Process wastewater	32.97	70,879.91	56.65	381.27
Fresh water	3.27	5,952.84	126,233.38	967.89
Atmospheric deposition	0.00	0.00	0.00	0.00
Total nutrients applied	317.10	76,917.85	126,558.12	4,182.46
Anticipated crop nutrient removal	358.80	44.20	195.00	520.00
Actual crop nutrient removal	233.25	35.40	259.77	0.00
Nutrient balance	83.85	76,882.44	126,298.35	4,182.46
Applied to removed ratio	1.36	2,172.52	487.20	0.00

Fresh water applied

65,254,518.07	gallons
2,403.10	acre-inches
30.81	inches/acre

Process wastewater applied

783,672.66	gallons
28.86	acre-inches
0.37	inches/acre

Total Harvests for the crop

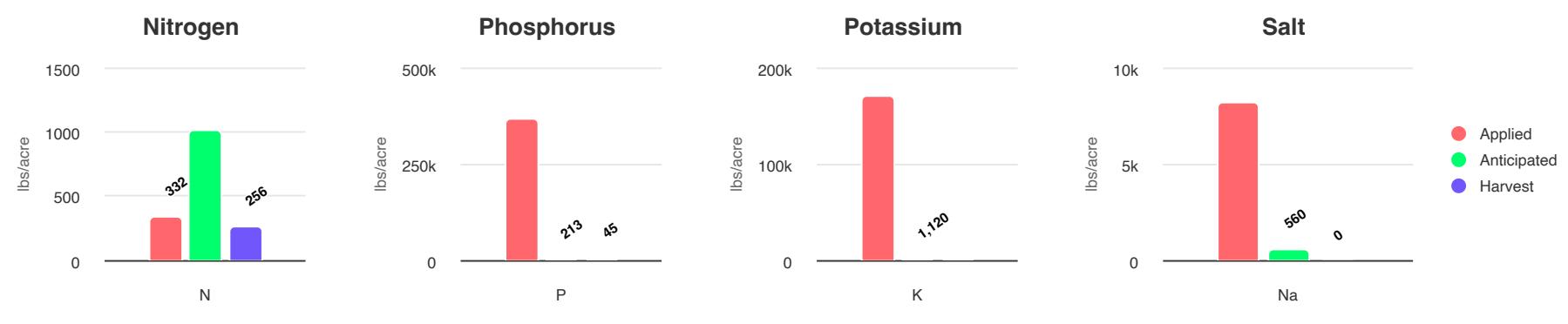
1	harvests
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Field name: 36-4

Crop: Corn Silage

Plant date: 05/01/2023

Nutrient budgets 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	17.70	0.00	0.00	0.00
Dry manure	103.49	29.58	90.55	3,586.80
Process wastewater	193.73	358,276.72	509.33	3,619.82
Fresh water	3.29	8,686.79	169,972.68	939.79
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	332.21	366,993.09	170,572.56	8,146.41
Anticipated crop nutrient removal	1,008.00	212.80	1,120.00	560.00
Actual crop nutrient removal	256.01	45.40	293.54	0.00
Nutrient balance	76.20	366,947.68	170,279.02	8,146.41
Applied to removed ratio	1.30	8,082.71	581.09	0.00

Fresh water applied

74,782,529.51 gallons
2,753.99 acre-inches
38.34 inches/acre

Process wastewater applied

5,317,782.08 gallons
195.84 acre-inches
2.73 inches/acre

Total Harvests for the crop

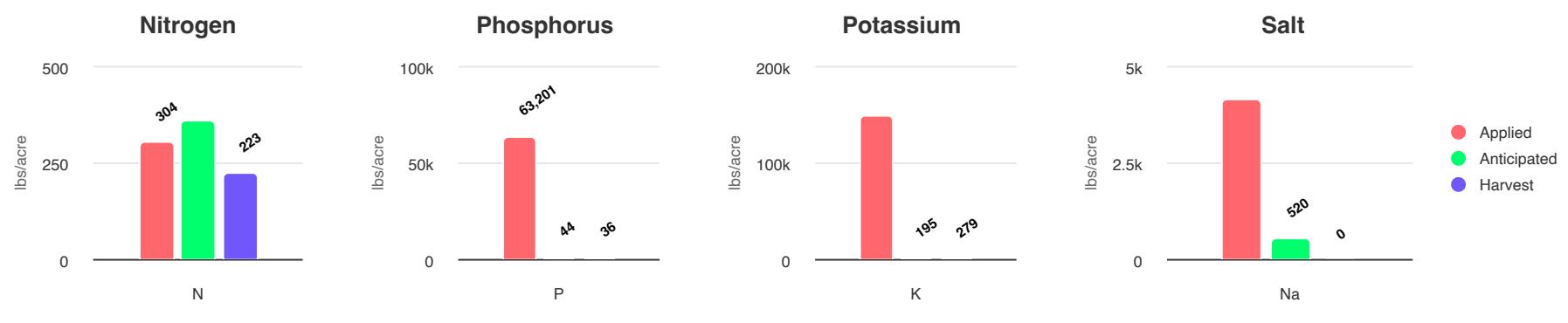
1 harvests

Field name: 36-4

Crop: Triticale

Plant date: 11/09/2022

Nutrient budgets 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	35.40	0.00	0.00	0.00
Dry manure	238.39	85.10	268.09	2,833.30
Process wastewater	26.90	57,961.75	46.48	320.11
Fresh water	3.34	5,153.85	147,639.36	967.85
Atmospheric deposition	0.00	0.00	0.00	0.00
Total nutrients applied	304.03	63,200.70	147,953.93	4,121.26
Anticipated crop nutrient removal	358.80	44.20	195.00	520.00
Actual crop nutrient removal	223.49	35.68	279.14	0.00
Nutrient balance	80.54	63,165.02	147,674.79	4,121.26
Applied to removed ratio	1.36	1,771.43	530.03	0.00

Fresh water applied

62,412,737.16 gallons
2,298.45 acre-inches
31.99 inches/acre

Process wastewater applied

585,229.13 gallons
21.55 acre-inches
0.30 inches/acre

Total Harvests for the crop

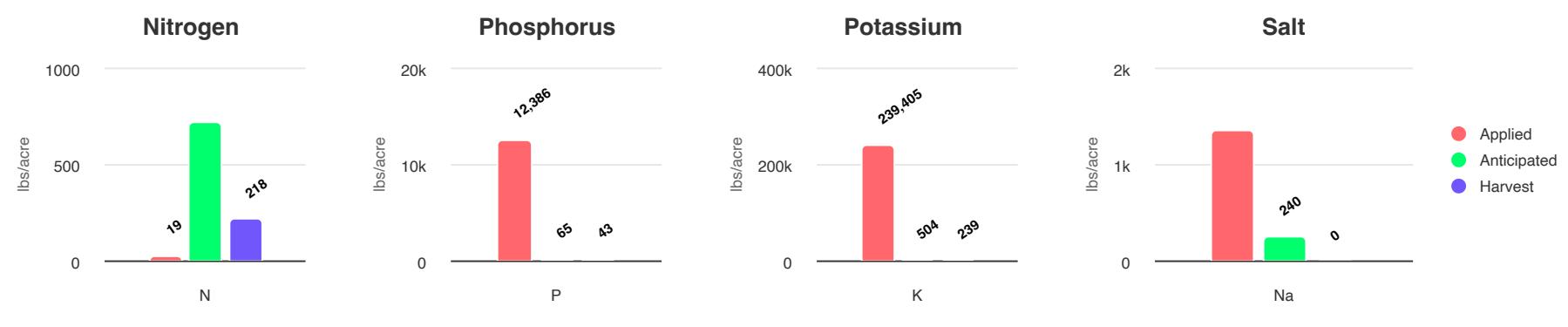
1 harvests

Field name: 36-5

Crop: Alfalfa

Plant date: 01/02/2019

Nutrient budgets 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	0.00	0.00	0.00	0.00
Fresh water	4.90	12,385.62	239,405.14	1,347.24
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	18.90	12,385.62	239,405.14	1,347.24
Anticipated crop nutrient removal	720.00	64.80	504.00	240.00
Actual crop nutrient removal	218.48	43.26	238.65	0.00
Nutrient balance	-199.58	12,342.36	239,166.49	1,347.24
Applied to removed ratio	0.09	286.32	1,003.16	0.00

Fresh water applied

115,767,517.49 gallons
4,263.32 acre-inches
54.66 inches/acre

Process wastewater applied

0.00 gallons
0.00 acre-inches
0.00 inches/acre

Total Harvests for the crop

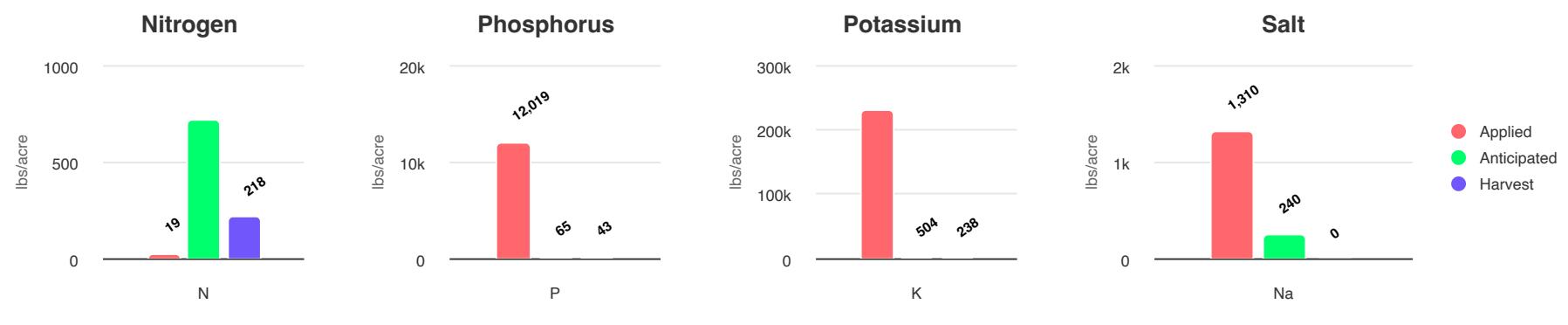
8 harvests

Field name: 36-6

Crop: Alfalfa

Plant date: 10/15/2020

Nutrient budgets 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	0.00	0.00	0.00	0.00
Fresh water	4.83	12,019.44	231,256.20	1,310.04
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	18.83	12,019.44	231,256.20	1,310.04
Anticipated crop nutrient removal	720.00	64.80	504.00	240.00
Actual crop nutrient removal	218.07	43.18	238.20	0.00
Nutrient balance	-199.24	11,976.26	231,018.00	1,310.04
Applied to removed ratio	0.09	278.38	970.85	0.00

Fresh water applied
116,780,953.55 gallons
4,300.65 acre-inches
53.04 inches/acre

Process wastewater applied
0.00 gallons
0.00 acre-inches
0.00 inches/acre

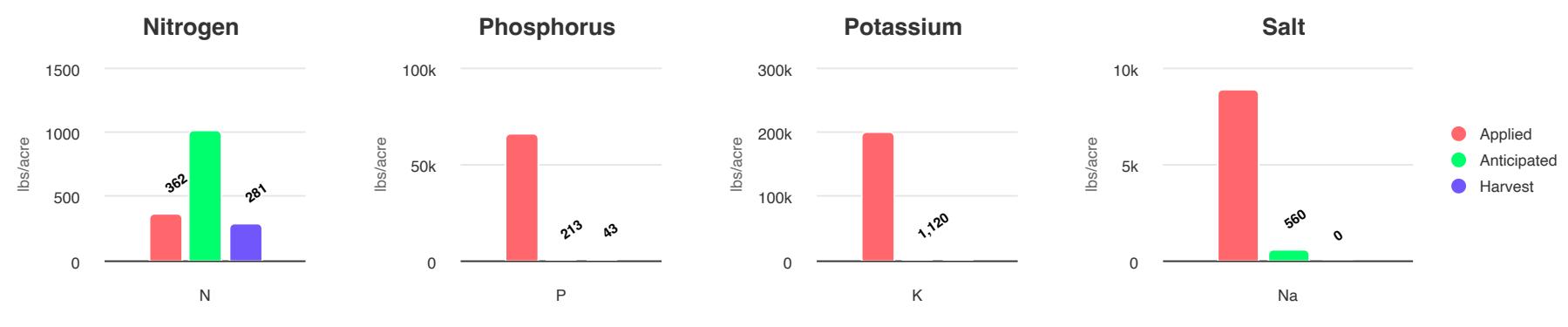
Total Harvests for the crop
8 harvests

Field name: 36-7

Crop: Corn Silage

Plant date: 05/01/2023

Nutrient budgets 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	106.18	0.00	0.00	0.00
Dry manure	206.98	59.15	181.10	7,173.60
Process wastewater	30.91	57,171.81	81.27	577.63
Fresh water	3.65	8,736.20	200,539.36	1,144.90
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	361.72	65,967.16	200,801.73	8,896.13
Anticipated crop nutrient removal	1,008.00	212.80	1,120.00	560.00
Actual crop nutrient removal	280.91	43.38	323.11	0.00
Nutrient balance	80.81	65,923.78	200,478.62	8,896.13
Applied to removed ratio	1.29	1,520.59	621.46	0.00

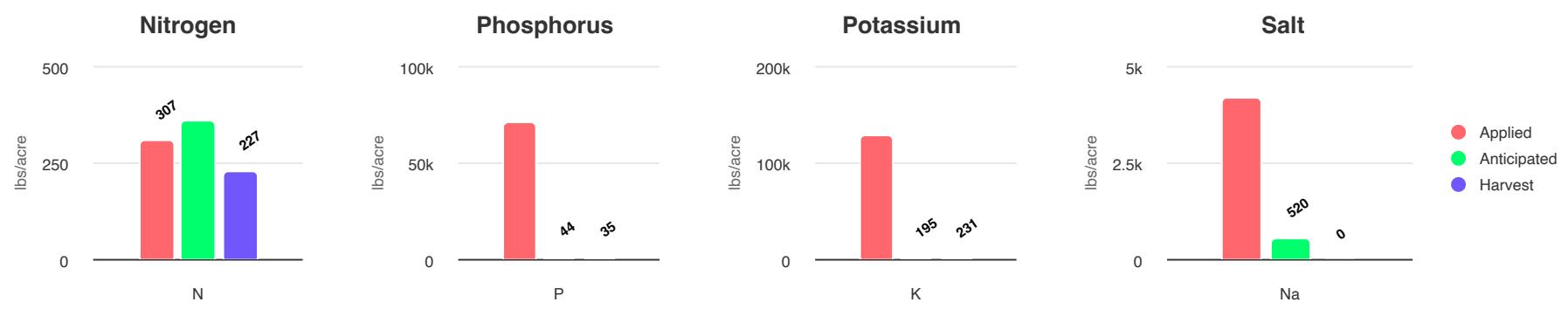
Fresh water applied	
98,886,459.93	gallons
3,641.65	acre-inches
43.35	inches/acre
Process wastewater applied	
992,217.60	gallons
36.54	acre-inches
0.44	inches/acre
Total Harvests for the crop	
1	harvests

Field name: 36-7

Crop: Triticale

Plant date: 11/07/2022

Nutrient budgets 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	35.40	0.00	0.00	0.00
Dry manure	238.39	85.10	268.09	2,833.30
Process wastewater	29.98	64,498.78	51.59	349.18
Fresh water	3.49	6,121.21	128,119.12	1,002.07
Atmospheric deposition	0.00	0.00	0.00	0.00
Total nutrients applied	307.26	70,705.09	128,438.80	4,184.55
Anticipated crop nutrient removal	358.80	44.20	195.00	520.00
Actual crop nutrient removal	227.44	35.06	230.78	0.00
Nutrient balance	79.81	70,670.03	128,208.02	4,184.55
Applied to removed ratio	1.35	2,016.66	556.54	0.00

Fresh water applied
72,336,083.77 gallons
2,663.89 acre-inches
31.71 inches/acre

Process wastewater applied
766,402.58 gallons
28.22 acre-inches
0.34 inches/acre

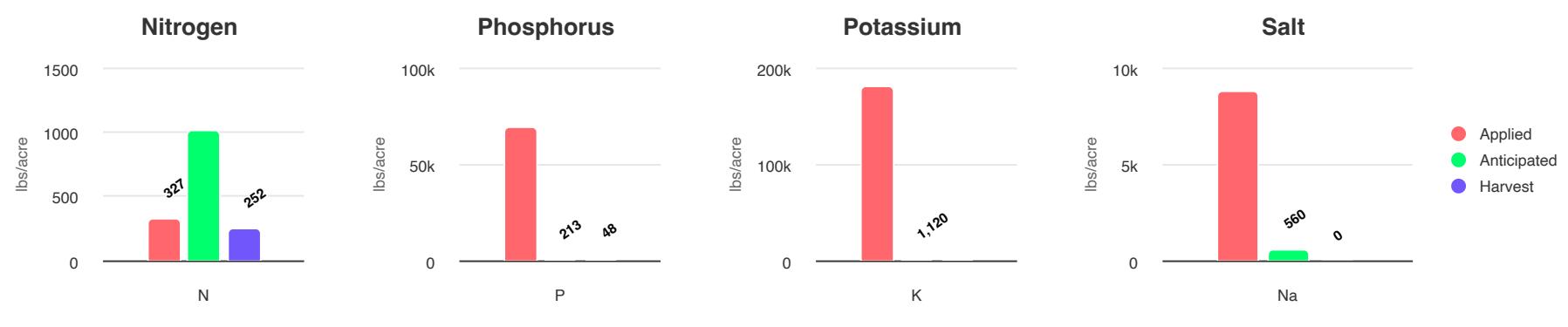
Total Harvests for the crop
1 harvests

Field name: 36-8

Crop: Corn Silage

Plant date: 05/01/2023

Nutrient budgets 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	70.78	0.00	0.00	0.00
Dry manure	206.98	59.15	181.10	7,173.60
Process wastewater	32.26	59,668.98	84.82	602.87
Fresh water	3.37	9,167.89	180,924.61	988.04
Atmospheric deposition	14.00	0.00	0.00	0.00
Total nutrients applied	327.39	68,896.02	181,190.53	8,764.51
Anticipated crop nutrient removal	1,008.00	212.80	1,120.00	560.00
Actual crop nutrient removal	252.35	47.65	338.63	0.00
Nutrient balance	75.03	68,848.37	180,851.90	8,764.51
Applied to removed ratio	1.30	1,445.74	535.06	0.00

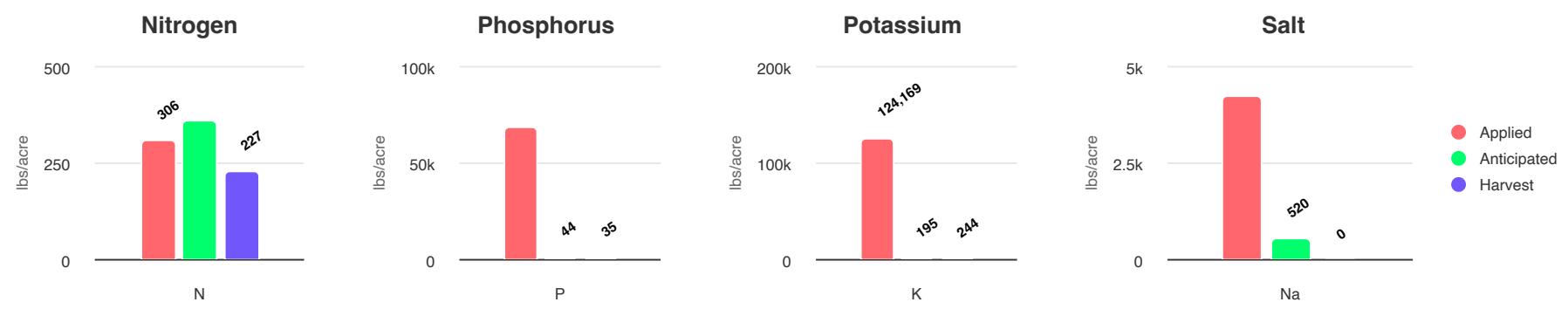
Fresh water applied		
94,480,294.78	gallons	
3,479.39	acre-inches	
40.46	inches/acre	
Process wastewater applied		
1,060,211.92	gallons	
39.04	acre-inches	
0.45	inches/acre	
Total Harvests for the crop		
1	harvests	

Field name: 36-8

Crop: Triticale

Plant date: 11/09/2022

Nutrient budgets 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	35.40	0.00	0.00	0.00
Dry manure	238.39	85.10	268.09	2,833.30
Process wastewater	28.60	61,751.91	49.68	349.53
Fresh water	3.81	6,397.43	123,850.95	1,015.75
Atmospheric deposition	0.00	0.00	0.00	0.00
Total nutrients applied	306.20	68,234.44	124,168.72	4,198.58
Anticipated crop nutrient removal	358.80	44.20	195.00	520.00
Actual crop nutrient removal	227.35	34.88	244.43	0.00
Nutrient balance	78.84	68,199.56	123,924.28	4,198.58
Applied to removed ratio	1.35	1,956.36	507.98	0.00

Fresh water applied		
74,945,774.35	gallons	
2,760.00	acre-inches	
32.09	inches/acre	
Process wastewater applied		
740,280.14	gallons	
27.26	acre-inches	
0.32	inches/acre	
Total Harvests for the crop		
1	harvests	

NUTRIENT ANALYSES

A. MANURE ANALYSES

T3090018A

Sample and source description name:	T3090018A									
Sample date:	03/17/2023	Material type:	Corral solids		Source of analysis:	Lab Analysis		Method of reporting:	As-is	
Moisture:	41.2%									

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Calcium (mg/kg)	Magnesium (mg/kg)	Sodium (mg/kg)	Sulfur (mg/kg)	Chloride (mg/kg)	Total Salt (mg/kg)	TFS (%)
Value	17,600.00	5,030.00	15,400.00	13,430.00	9,230.00	5,600.00	3,400.00	1,087.00	15,400.00	0.00
DL	100.00	200.00	500.00	500.00	500.00	500.00	100.00	.10		.10

T3167042A

Sample and source description name:	T3167042A									
Sample date:	06/12/2023	Material type:	Corral solids		Source of analysis:	Lab Analysis		Method of reporting:	As-is	
Moisture:	6.3%									

	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	20,110.00	7,250.00	14,770.00	14,680.00	7,380.00	5,700.00	3,100.00	1,165.00	14,770.00	0.00
DL	100.00	200.00	500.00	500.00	500.00	500.00	100.00	.10		.10

T3263098A

Sample and source description name:	T3263098A									
Sample date:	09/15/2023	Material type:	Corral solids		Source of analysis:	Lab Analysis		Method of reporting:	As-is	
Moisture:	4.5%									

	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	17,800.00	5,550.00	18,920.00	16,680.00	11,270.00	5,330.00	6,590.00	1,258.00	18,920.00	0.00
DL	100.00	200.00	500.00	500.00	500.00	500.00	100.00	.10		.10

T3362030A

Sample and source description name:	T3362030A									
Sample date:	12/22/2023	Material type:	Corral solids		Source of analysis:	Lab Analysis		Method of reporting:	As-is	

Moisture: 22.7%

	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	23,340.00	8,260.00	13,870.00	7,570.00	5,510.00	4,840.00	3,320.00	709.00	13,870.00	0.00
DL	100.00	200.00	500.00	500.00	500.00	500.00	100.00	.10		.10

B. PROCESS WASTEWATER ANALYSES

T3089031A

Sample and source description name:

T3089031A

Sample date: 03/17/2023

Material type: Process wastewater

Source of analysis:

Lab Analysis

pH:

0

	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 (mmhos/cm)	TDS (mg/L)
Value	372.40	0.00	201.60	0.19	78.50	608.29	190.39	76.76	191.39	0.00	0.00	144.74	267.48	4.44	3,200.00
DL	0.50	0.50	0.50	0.50	0.20	0.50	0.50	0.50	0.50	2.00	2.00	0.50	0.50	1.00	10

T3167024A

Sample and source description name:

T3167024A

Sample date: 06/12/2023

Material type: Process wastewater

Source of analysis:

Lab Analysis

pH:

0

	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 (mmhos/cm)	TDS (mg/L)
Value	313.60	0.00	260.40	0.00	58.00	824.54	150.05	104.25	370.38	0.00	0.00	292.33	355.61	5.94	5,860.00
DL	0.50	0.50	0.50	0.50	0.20	0.50	0.50	0.50	0.50	2.00	2.00	0.50	0.50	1.00	10

T3263060A

Sample and source description name:

T3263060A

Sample date: 09/15/2023

Material type: Process wastewater

Source of analysis:

Lab Analysis

pH:

0

	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 (mmhos/cm)	TDS (mg/L)
Value	291.20	0.00	212.80	0.00	61.80	284.40	78.29	60.06	187.39	0.00	0.00	146.44	189.53	4.14	2,260.00
DL	0.50	0.50	0.50	0.50	0.20	0.50	0.50	0.50	0.50	2.00	2.00	0.50	0.50	1.00	10

C. FRESH WATER ANALYSES

Canal - Kern Island												
T3362072D-164-86												
Sample and source description name:	T3362072D-164-86											
Sample date:	12/27/2023											
	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (mmhos/cm)	TDS (mg/L)
Value	5.60	0.00	0.00	16.04	6.16	23.62	0.00	0.00	21.17	28.02	0.28	95.00
DL	0.50	0.50	0.50	0.50	0.50	0.50	2.00	2.00	0.50	0.50	1.00	10

BM-DW2												
T3362062A												
Sample and source description name:	T3362062A											
Sample date:	12/27/2023											
	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (mmhos/cm)	TDS (mg/L)
Value	2.86	0.00	0.06	24.54	0.73	68.34	0.00	0.00	58.42	12.23	0.41	155.00
DL	0.50	0.50	0.50	0.50	0.50	0.50	2.00	2.00	0.50	0.50	1.00	10

W300-9												
T3362062B												
Sample and source description name:	T3362062B											
Sample date:	12/27/2023											
	Total N (mg/L)	NH4-N (mg/L)	Nitrate-N (mg/L)	Calcium (mg/L)	Magnes. (mg/L)	Sodium (mg/L)	Bicarb. (mg/L)	Carb. (mg/L)	Sulfate (mg/L)	Chloride (mg/L)	EC (mmhos/cm)	TDS (mg/L)
Value	4.09	0.00	1.29	11.43	0.12	65.92	0.00	0.00	72.41	25.71	0.36	140.00
DL	0.50	0.50	0.50	0.50	0.50	0.50	2.00	2.00	0.50	0.50	1.00	10

D. SOIL ANALYSES

36-3

3671_1

Sample
description:

3671_1

Sample date:

09/19/2022

Source of analysis:

Lab Analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (mmhos/cm)	Organic matter (%)	Total Salt (mg/kg)
Value	8.57	0.00	0.00	0.00	0.34	2.06	
DL	0.50	0.20	0.20	0.50	1.00	0.10	

36-4

3501_2

Sample
description:

3501_2

Sample date:

09/15/2022

Source of analysis:

Lab Analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (mmhos/cm)	Organic matter (%)	Total Salt (mg/kg)
Value	15.22	0.00	0.00	0.00	0.51	2.88	
DL	0.50	0.20	0.20	0.50	1.00	0.10	

36-5

7360_3

Sample
description:

7360_3

Sample date:

03/31/2023

Source of analysis:

Lab Analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (mmhos/cm)	Organic matter (%)	Total Salt (mg/kg)
Value	8.00	0.00	0.00	0.00	0.24	0.00	
DL	0.50	0.20	0.20	0.50	1.00	0.10	

36-6

7360_4

Sample
description:

7360_4

Sample date:

03/31/2023

Source of analysis: Lab Analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (mmhos/cm)	Organic matter (%)	Total Salt (mg/kg)
Value	5.00	0.00	0.00	0.00	0.37	0.00	
DL	0.50	0.20	0.20	0.50	1.00	0.10	

36-7

2873_4

Sample
description:

2873_4

Sample date:

09/01/2022

Source of analysis: Lab Analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (mmhos/cm)	Organic matter (%)	Total Salt (mg/kg)
Value	21.66	0.00	0.00	0.00	0.44	1.51	
DL	0.50	0.20	0.20	0.50	1.00	0.10	

36-8

2873_5

Sample
description:

2873_5

Sample date:

09/01/2022

Source of analysis: Lab Analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (mmhos/cm)	Organic matter (%)	Total Salt (mg/kg)
Value	23.68	0.00	0.00	0.00	0.43	1.12	
DL	0.50	0.20	0.20	0.50	1.00	0.10	

35-9

3501_1

Sample
description:

3501_1

Sample date:

09/15/2022

Source of analysis:

Lab Analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (mmhos/cm)	Organic matter (%)	Total Salt (mg/kg)
Value	19.93	0.00	0.00	0.00	0.55	2.23	
DL	0.50	0.20	0.20	0.50	1.00	0.10	

36-1

7360_2

Sample
description:

7360_2

Sample date:

03/31/2023

Source of analysis:

Lab Analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (mmhos/cm)	Organic matter (%)	Total Salt (mg/kg)
Value	7.00	0.00	0.00	0.00	0.31	0.00	
DL	0.50	0.20	0.20	0.50	1.00	0.10	

36-2

3344_6

Sample
description:

3344_6

Sample date:

09/13/2022

Source of analysis:

Lab Analysis

	Nitrate-N (mg/kg)	Total P (mg/kg)	Soluble P (mg/kg)	K (mg/kg)	EC (mmhos/cm)	Organic matter (%)	Total Salt (mg/kg)
Value	23.68	0.00	0.00	0.00	0.44	1.65	
DL	0.50	0.20	0.20	0.50	1.00	0.10	

E. PLANT TISSUE ANALYSES

36-8 - 10/15/2022: Triticale

T3167031F

Sample description: T3167031F

Sample date: 06/09/2023

Source of analysis: Lab Analysis

Method of reporting: Dry

Moisture: 0%

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total Salt (mg/kg)	TFS (%)
Value	15,840.00	2,430.00	17,030.00	690.00	0.00
DL	100.00	200.00	500.00		0.10

36-7 - 10/15/2022: Triticale

T3167031E

Sample description: T3167031E

Sample date: 06/09/2023

Source of analysis: Lab Analysis

Method of reporting: Dry

Moisture: 0%

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total Salt (mg/kg)	TFS (%)
Value	17,710.00	2,730.00	17,970.00	790.00	0.00
DL	100.00	200.00	500.00		0.10

36-3 - 10/15/2022: Triticale

T3167031C

Sample description: T3167031C

Sample date: 06/09/2023

Source of analysis: Lab Analysis

Method of reporting: Dry

Moisture: 0%

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total Salt (mg/kg)	TFS (%)
Value	17,590.00	2,670.00	19,590.00	1,010.00	0.00

DL	100.00	200.00	500.00		0.10
----	--------	--------	--------	--	------

36-4 - 10/15/2022: Triticale

T3167031D

Sample description: T3167031D

Sample date: 06/09/2023

Source of analysis: Lab Analysis

Method of reporting: Dry

Mositure: 0%

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total Salt (mg/kg)	TFS (%)
Value	15,660.00	2,500.00	19,560.00	1,190.00	0.00
DL	100.00	200.00	500.00		0.10

36-7 - 04/20/2023: Corn Silage

T3342013B

Sample description: T3342013B

Sample date: 11/03/2023

Source of analysis: Lab Analysis

Method of reporting: Dry

Mositure: 0%

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total Salt (mg/kg)	TFS (%)
Value	14,310.00	2,210.00	16,460.00	80.00	0.00
DL	100.00	200.00	500.00		0.10

36-8 - 04/20/2023: Corn Silage

T3342013C

Sample description: T3342013C

Sample date: 11/03/2023

Source of analysis: Lab Analysis

Method of reporting: Dry

Mositure: 0%

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total Salt (mg/kg)	TFS (%)
Value	13,980.00	2,640.00	18,760.00	90.00	0.00
DL	100.00	200.00	500.00		0.10

35-9 - 04/20/2023: Corn Silage

T3348012A

Sample description: T3348012A

Sample date: 11/03/2023

Source of analysis: Lab Analysis

Method of reporting: Dry

Mositure: 0%

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total Salt (mg/kg)	TFS (%)
Value	15,110.00	3,210.00	18,230.00	130.00	0.00
DL	100.00	200.00	500.00		0.10

36-4 - 04/20/2023: Corn Silage

T3342013A

Sample description: T3342013A

Sample date: 11/03/2023

Source of analysis: Lab Analysis

Method of reporting: Dry

Mositure: 0%

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total Salt (mg/kg)	TFS (%)
Value	15,280.00	2,710.00	17,520.00	90.00	0.00
DL	100.00	200.00	500.00		0.10

36-2 - 04/20/2023: Corn Silage

T3348012B

Sample description:	T3348012B				
Sample date:	11/03/2023	Source of analysis:	Lab Analysis	Method of reporting:	Dry
Mositure:	0%				
	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total Salt (mg/kg)	TFS (%)

Value	13,130.00	2,890.00	16,140.00	100.00	0.00
DL	100.00	200.00	500.00		0.10

36-3 - 04/20/2023: Corn Silage

T3348012C

Sample description:	T3348012C				
Sample date:	11/03/2023	Source of analysis:	Lab Analysis	Method of reporting:	Dry
Mositure:	0%				
	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total Salt (mg/kg)	TFS (%)

Value	12,690.00	2,730.00	13,950.00	70.00	0.00
DL	100.00	200.00	500.00		0.10

36-5 - 01/01/2023: Alfalfa

ATS-T3342014E

Sample description:	ATS-T3342014E				
Sample date:	11/03/2023	Source of analysis:	Lab Analysis	Method of reporting:	Dry
Mositure:	0%				
	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total Salt (mg/kg)	TFS (%)

Value	14,950.00	2,960.00	16,330.00	70.00	0.00
DL	100.00	200.00	500.00		0.10

36-6 - 01/01/2023: Alfalfa

ATS-T3342014E-2

Sample
description: ATS-T3342014E-2

Sample date: 11/03/2023

Source of analysis: Lab Analysis

Method of reporting: Dry

Moisture: 0%

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total Salt (mg/kg)	TFS (%)
Value	14,950.00	2,960.00	16,330.00	70.00	0.00
DL	100.00	200.00	500.00		0.10

36-1 - 10/15/2022: Tricale

ATS-T3167031D

Sample
description: ATS-T3167031D

Sample date: 06/09/2023

Source of analysis: Lab Analysis

Method of reporting: Dry

Moisture: 0%

	Total N (mg/kg)	Total P (mg/kg)	Total K (mg/kg)	Total Salt (mg/kg)	TFS (%)
Value	15,660.00	2,500.00	19,560.00	1,190.00	0.00
DL	100.00	200.00	500.00		0.10

F. SUBSURFACE (TILE) DRAINAGE ANALYSES

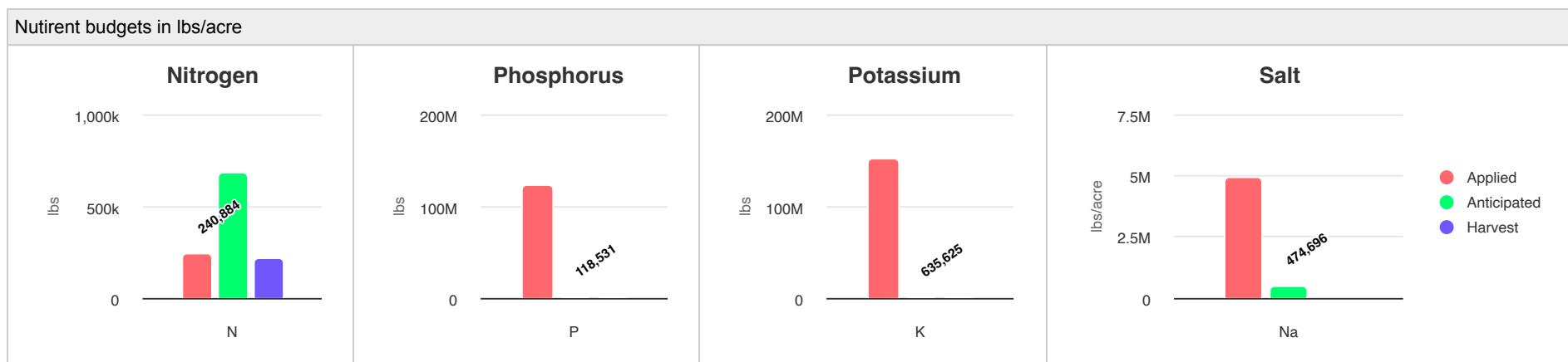
No subsurface (tile) drainage analyses entered.

NUTRIENT APPLICATIONS, POTENTIAL REMOVAL, AND BALANCE

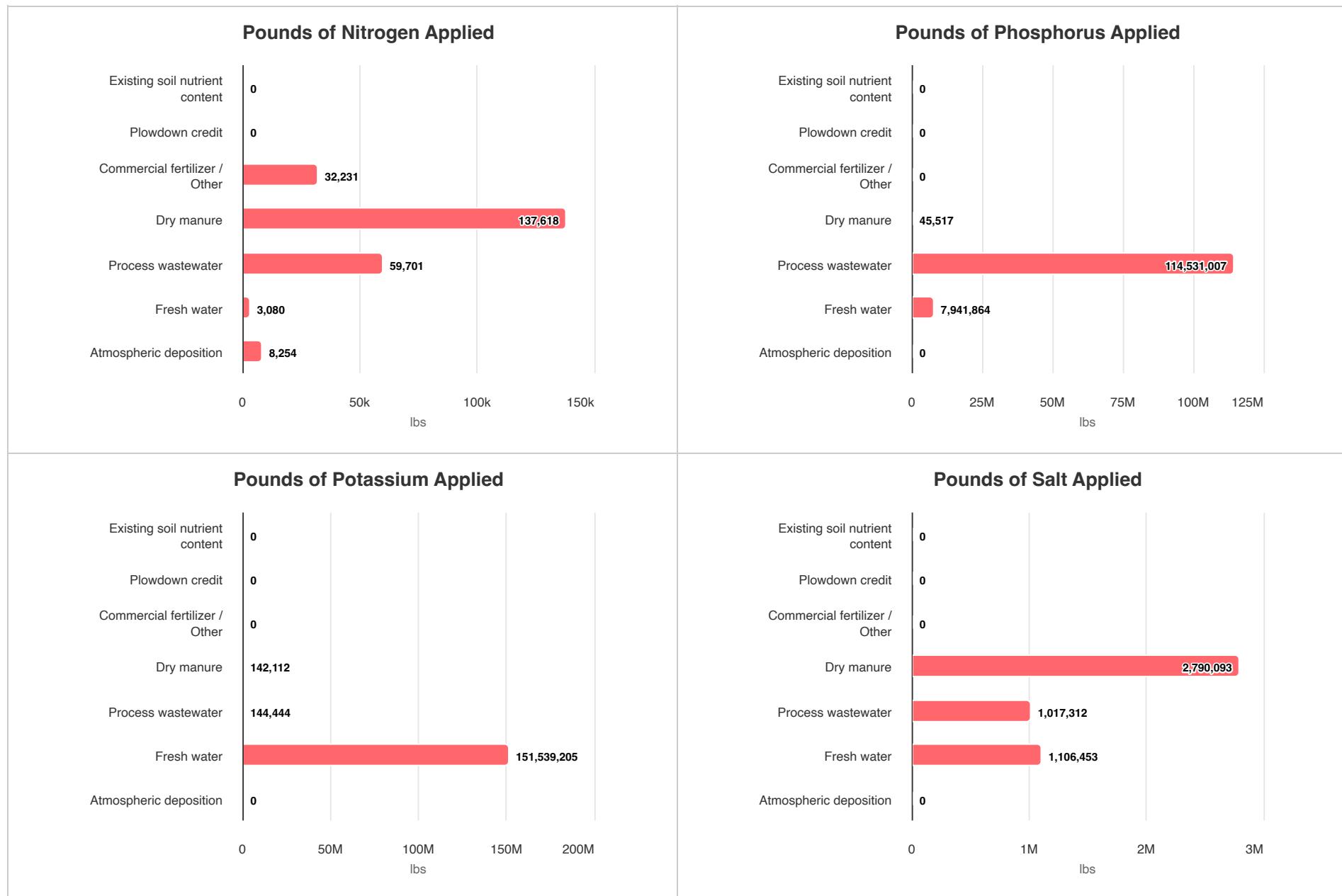
A. SUMMARY OF NUTRIENT APPLICATIONS, POTENTIAL REMOVAL, AND BALANCE

	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	32,230.88	0.00	0.00	0.00
Dry manure	137,618.36	45,517.36	142,111.89	2,833.30
Process wastewater	59,700.73	114,531,007.50	144,444.05	349.53
Fresh water	3,079.62	7,941,863.99	151,539,204.78	1,015.75
Atmospheric deposition	8,254.12	0.00	0.00	0.00
Total nutrients applied	240,883.71	122,518,388.85	151,825,760.72	4,913,857.66
Anticipated crop nutrient removal	683,332.98	118,530.91	635,625.11	474,696.00
Actual crop nutrient removal	217,843.69	38,538.46	251,505.23	0.00
Nutrient balance	23,040.02	122,479,850.38	151,574,255.49	4,913,857.66
Applied to removed ratio	1.11	3,179.12	603.67	0.00

B. POUNDS OF NUTRIENT APPLIED VS. CROP REMOVAL



C. POUNDS OF NUTRIENT APPLIED BY MATERIAL TYPE



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?

No

ADDITIONAL NOTES

A. NOTES

Well Specific Notes

2023 Non Op Wells: W300-12, W300-2, W300-7, W300-8

CERTIFICATION

A. OWNER AND/OR OPERATOR CERTIFICATION

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



SIGNATURE OF OWNER OF FACILITY

Ramon Echeverria

PRINT OR TYPE NAME

6/29/2024

DATE



SIGNATURE OF OPERATOR OF FACILITY

Ramon Echeverria

PRINT OR TYPE NAME

6/29/2024

DATE

REQUIRED 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.

Discharge Maps

Provide map(s) showing the discharge and sample locations for each discharge or release of waste to land areas (land application areas or otherwise) or surface water.

Discharge Lab Reports

Provide copies of laboratory analyses of all discharges (manure, process wastewater, or tailwater), surface water (upstream and downstream of a discharge), and storm water, including chain-of-custody forms and laboratory quality assurance/quality control results.

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.

Solid/Liquid Manure Tracking Manifest

Waste Generator Information:

Name: Ramon Echeverria
Facility Name: Bear Mountain Dairy
Facility Address: 4551 Bear Mountain Blvd
Facility City/State: Bakersfield, CA 93313

Contact:

Name: Ramon Echeverria
Number: (661) 074-7063

If amount hauled / transferred is liquid, then a "Waste Water Agreement" is required in compliance with Land Application Specification C.2 of the General Order R5-2007-0035.

Does the operator have an agreement, and is a Waste Water Agreement on file with the RWQCD? NO

I declare under the 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.

Manure Hauler / Processor Information:

Name: Brachena Ag Services, Inc
Facility Address: 9442 Bear Mountain Blvd.
Facility City/State: Bakersfield, CA 93311

Contact:

Name: Fred Amirfar
Number: (661) 978-9321

Manure Destination Farmer

Destination Information:

Name: Grimmway Farms
Facility Address: PO Box 81498
Facility City/State: Bakersfield, CA

Contact:

Name: Grimmway Farms
Number: (661) 845-5289

Signature of Owner:**Date:**

12/30/2023

Signature of Hauler:**Date:**

12/30/2023

Dates Hauled / Transferred	Amount Hauled / Transferred	Units	Moisture %
Jun 1, 2023 - Jun, 30 2023	3,165	ton	68 %
Aug 1, 2023 - Aug, 31 2023	5,508	ton	68 %
Total	8,673		

Solid/Liquid Manure Tracking Manifest

Waste Generator Information:

Name: Ramon Echeverria
Facility Name: Bear Mountain Dairy
Facility Address: 4551 Bear Mountain Blvd
Facility City/State: Bakersfield, CA 93313

Contact:

Name: Ramon Echeverria
Number: (661) 074-7063

If amount hauled / transferred is liquid, then a "Waste Water Agreement" is required in compliance with Land Application Specification C.2 of the General Order R5-2007-0035.

Does the operator have an agreement, and is a Waste Water Agreement on file with the RWQCD? NO

I declare under the 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.

Manure Hauler / Processor Information:

Name: Brachena Ag Services, Inc
Facility Address: 9442 Bear Mountain Blvd.
Facility City/State: Bakersfield, CA 93311

Contact:

Name: Fred Amirfar
Number: (661) 978-9321

Manure Destination Farmer

Destination Information:

Name: American Ag, Inc.
Facility Address: PO Box 20370
Facility City/State: Bakersfield, CA

Contact:

Name: American Ag, Inc.
Number: _____

Signature of Owner:**Date:**

12/30/2023

Signature of Hauler:**Date:**

12/30/2023

Dates Hauled / Transferred	Amount Hauled / Transferred	Units	Moisture %
Jun 1, 2023 - Jun, 30 2023	4,216	ton	64 %
Sep 1, 2023 - Sep, 30 2023	11,563	ton	68 %
Dec 1, 2023 - Dec, 31 2023	8,326	ton	68 %
Total	24,105		

Solid/Liquid Manure Tracking Manifest

Waste Generator Information:

Name: Ramon Echeverria
Facility Name: Bear Mountain Dairy
Facility Address: 4551 Bear Mountain Blvd
Facility City/State: Bakersfield, CA 93313

Contact:

Name: Ramon Echeverria
Number: (661) 074-7063

If amount hauled / transferred is liquid, then a "Waste Water Agreement" is required in compliance with Land Application Specification C.2 of the General Order R5-2007-0035.

Does the operator have an agreement, and is a Waste Water Agreement on file with the RWQCD? NO

I declare under the 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.

Manure Hauler / Processor Information:

Name: Brachena Ag Services, Inc
Facility Address: 9442 Bear Mountain Blvd.
Facility City/State: Bakersfield, CA 93311

Contact:

Name: Fred Amirfar
Number: (661) 978-9321

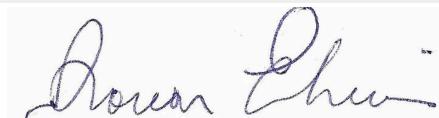
Manure Destination Farmer

Destination Information:

Name: Kirschenman Enterprises
Facility Address: Po Box 27
Facility City/State: Edison, CA

Contact:

Name: Kirschenman Enterprises
Number: _____

Signature of Owner:**Date:**

12/30/2023

Signature of Hauler:**Date:**

12/30/2023

Dates Hauled / Transferred	Amount Hauled / Transferred	Units	Moisture %
Feb 1, 2023 - Feb, 28 2023	5,741	ton	67 %
Nov 1, 2023 - Nov, 30 2023	1,211	ton	65 %
Total	6,952		

Solid/Liquid Manure Tracking Manifest

Waste Generator Information:

Name: Ramon Echeverria
Facility Name: Bear Mountain Dairy
Facility Address: 4551 Bear Mountain Blvd
Facility City/State: Bakersfield, CA 93313

Contact:

Name: Ramon Echeverria
Number: (661) 074-7063

If amount hauled / transferred is liquid, then a "Waste Water Agreement" is required in compliance with Land Application Specification C.2 of the General Order R5-2007-0035.

Does the operator have an agreement, and is a Waste Water Agreement on file with the RWQCD? NO

I declare under the 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.

Manure Hauler / Processor Information:

Name: Brachena Ag Services, Inc
Facility Address: 9442 Bear Mountain Blvd.
Facility City/State: Bakersfield, CA 93311

Contact:

Name: Fred Amirfar
Number: (661) 978-9321

Manure Destination Farmer

Destination Information:

Name: Ag Now Corp.
Facility Address: 9442 Bear Mountain Blvd.
Facility City/State: Bakersfield , CA

Contact:

Name: Fred Amirfar
Number: (661) 978-9321

Signature of Owner:
Date:

12/30/2023

Signature of Hauler:
Date:

12/30/2023

Dates Hauled / Transferred	Amount Hauled / Transferred	Units	Moisture %
Sep 1, 2023 - Sep, 30 2023	7,345	ton	70 %
Total	7,345		

Solid/Liquid Manure Tracking Manifest

Waste Generator Information:

Name: Ramon Echeverria
Facility Name: Bear Mountain Dairy
Facility Address: 4551 Bear Mountain Blvd
Facility City/State: Bakersfield, CA 93313

Contact:

Name: Ramon Echeverria
Number: (661) 074-7063

If amount hauled / transferred is liquid, then a "Waste Water Agreement" is required in compliance with Land Application Specification C.2 of the General Order R5-2007-0035.

Does the operator have an agreement, and is a Waste Water Agreement on file with the RWQCD? NO

I declare under the 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.

Manure Hauler / Processor Information:

Name: Brachena Ag Services, Inc
Facility Address: 9442 Bear Mountain Blvd.
Facility City/State: Bakersfield, CA 93311

Contact:

Name: Fred Amirfar
Number: (661) 978-9321

Manure Destination Farmer

Destination Information:

Name: Greg Tesch
Facility Address: 200 Hume Lane
Facility City/State: Bakersfield, CA

Contact:

Name: Tesch farms
Number: (661) 345-5735

Signature of Owner:

Date:

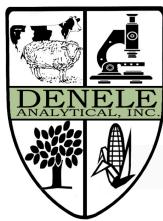
12/30/2023

Signature of Hauler:

Date:

12/30/2023

Dates Hauled / Transferred	Amount Hauled / Transferred	Units	Moisture %
Jun 1, 2023 - Jun, 30 2023	3,198	ton	69 %
Total	3,198		



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Phone (530) 666-9056 - Fax (530) 666-9058

Compliance Analysis Report

Customer

Bear Mountain Dairy
4551 Bear Mountain Blvd.
Bakersfield, CA 93313

Grower**Consultant:**

Icon Ag
9530 Hageman Rd, Ste B. #292
Bakersfield, CA 93312

PURCHASE ORDER:

RECEIVED DATE: 12/28/23 12:00 PM
SUBMITTED BY: Courier
ANALYZED DATE: 1/3/24

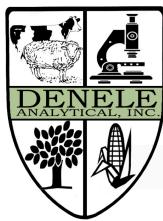
Boron (B)

SOURCE: Well Water

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
BM-DW2	T3362062A	Boron (B)	EPA 200.7	0.170	ppm

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
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Irrigation /Ground Water (H14)

SOURCE: Well Water

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
BM-DW2	T3362062A	Electrical Conductivity (EC)	EPA 120.1 and SM 2320B-2011	0.413	mmhos/cm
		Bicarbonate Alkalinity (ALK-B)	SM 2320B-2011	116	mg/L
		Carbonate Alkalinity (Carb)	SM 2320B-2011	< 2.00	mg/L
		Sulfate (SO4)	EPA 375.2	58.4	mg/L
		Sodium (Na)	EPA 200.7	68.3	mg/L
		Ammonia Nitrogen (NH3-N)	SM 4500-NH3 D,C	< 0.500	mg/L
		Magnesium (Mg)	EPA 200.7	0.730	mg/L
		Nitrate Nitrogen (NO3-N)	EPA 353.2	< 0.140	mg/L
		Total Dissolved Solids (TDS)	SM 2540 C-1997 and EPA 200.7	155	mg/L
		Calcium (Ca)	EPA 200.7	24.5	mg/L
		Chloride (Cl)	SM 4500-Cl D-2011	12.2	mg/L
		Soluble Salts (SALT-SOL)	Calculation	264	mg/L

Laboratory Quality Control	LCS %	MS %	MSD %	Sample mg/L	Dup mg/L	RPD %
Ammonia Nitrogen (NH3-N)	90.6	95.8 (T3362012A)	94.0 (T3362012A)			1.89
Calcium (Ca)	98.8	103 (W4002001A)	109 (W4002001A)			5.58
Chloride (Cl)	106	110 (W4002001A)	108 (W4002001A)			1.91
Magnesium (Mg)	107	88.2 (W4002001A)	93.5 (W4002001A)			5.85
Nitrate Nitrogen (NO3-N)	103	96.7 (W4002001A)	95.2 (W4002001A)			1.58
Sodium (Na)	104	112 (W4002001A)	119 (W4002001A)			5.80
Sulfate (SO4)	102	111 (W4002001A)	108 (W4002001A)			3.31
Total Dissolved Solids (TDS)	105			130 (T3362071B)	135 (Dup)	3.77

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Bear Mountain Dairy
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Grower**Consultant:**

Icon Ag
9530 Hageman Rd, Ste B. #292
Bakersfield, CA 93312

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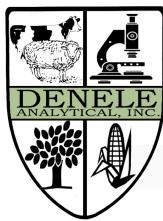
pH (pH)

SOURCE: Well Water

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
BM-DW2	T3362062A	pH (pH)	SM4500-H+ B-2000	7.8	S.U.

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
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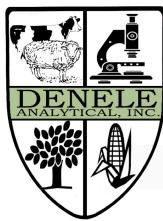
RECEIVED DATE: 12/28/23 12:00 PM
SUBMITTED BY: Courier
ANALYZED DATE: 1/4/24

Total Nitrogen (TN)
SOURCE: Well Water

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
BM-DW2	T3362062A	Total Nitrogen (TN)	SM 4500-NH3 D,C	2.86	%

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %

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ANALYZED DATE: 1/3/24

Boron (B)

SOURCE: Well Water

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
W300-9	T3362062B	Boron (B)	EPA 200.7	0.110	ppm

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
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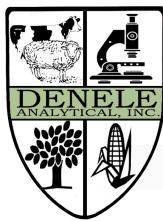
Irrigation /Ground Water (H14)

SOURCE: Well Water

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
W300-9	T3362062B	Electrical Conductivity (EC)	EPA 120.1 and SM 2320B-2011	0.359	mmhos/cm
		Bicarbonate Alkalinity (ALK-B)	SM 2320B-2011	60.0	mg/L
		Carbonate Alkalinity (Carb)	SM 2320B-2011	< 2.00	mg/L
		Sulfate (SO4)	EPA 375.2	72.4	mg/L
		Sodium (Na)	EPA 200.7	65.9	mg/L
		Ammonia Nitrogen (NH3-N)	SM 4500-NH3 D,C	< 0.500	mg/L
		Magnesium (Mg)	EPA 200.7	< 0.500	mg/L
		Nitrate Nitrogen (NO3-N)	EPA 353.2	1.29	mg/L
		Total Dissolved Solids (TDS)	SM 2540 C-1997 and EPA 200.7	140	mg/L
		Calcium (Ca)	EPA 200.7	11.4	mg/L
		Chloride (Cl)	SM 4500-Cl D-2011	25.7	mg/L
		Soluble Salts (SALT-SOL)	Calculation	230	mg/L

Laboratory Quality Control	LCS %	MS %	MSD %	Sample mg/L	Dup mg/L	RPD %
Ammonia Nitrogen (NH3-N)	90.6	95.8 (T3362012A)	94.0 (T3362012A)			1.89
Calcium (Ca)	98.8	103 (W4002001A)	109 (W4002001A)			5.58
Chloride (Cl)	106	110 (W4002001A)	108 (W4002001A)			1.91
Magnesium (Mg)	107	88.2 (W4002001A)	93.5 (W4002001A)			5.85
Nitrate Nitrogen (NO3-N)	103	96.7 (W4002001A)	95.2 (W4002001A)			1.58
Sodium (Na)	104	112 (W4002001A)	119 (W4002001A)			5.80
Sulfate (SO4)	102	111 (W4002001A)	108 (W4002001A)			3.31
Total Dissolved Solids (TDS)	105			130 (T3362071B)	135 (Dup)	3.77

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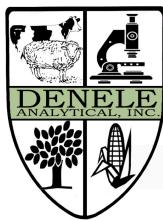
Icon Sampling Fee (ISF)

SOURCE: Well Water

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
W300-9	T3362062B	Icon Sampling Fee (ISF)	N/A	0.000	N/A

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %

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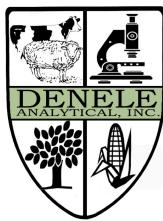
pH (pH)

SOURCE: Well Water

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
W300-9	T3362062B	pH (pH)	SM4500-H+ B-2000	7.5	S.U.

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %
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Total Nitrogen (TN)
SOURCE: Well Water

Sample ID	Lab ID	Analyte	Method Ref	Result	Units
W300-9	T3362062B	Total Nitrogen (TN)	SM 4500-NH3 D,C	4.09	%

Laboratory Quality Control	LCS %	MS %	MSD %	RPD %

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Irrigation / Ground / Tile Water



9530 Hageman Rd. Ste B, #292 Bakersfield, CA 93312

Dominic Patino

📞 (661) 333-7776

📠 (661) 215-5168

✉️ dpatino@iconaginc.com

Date

12-27-23

Sampled By

TONY

Lab Name

Denelle

Bear Mountain Dairy

Ranch: Bear Mtn Ranch

***Required Field Measurement

NH4-N Check here if performed

Analysis Types

W5 - Ag Suitability (Non-Compliance)

W2 - W1 + Ca, Mg, Na, Bicard, SO4, Cl, B

W4 - pH, SpCon, TDS, Ca, CO3, Ca, Mg, Na, K, SO4, Cl, B (Reg 3 comp)

W1 - EC, pH, NO3-N, TN, TDS, NH4-N*** (Reg 5 comp)

W3 - W2 + TP, NH4-N, Carb (tile drain)

Weather Conditions

SH - Sunny & Hot

CC - Cold & Cloudy

SW - Sunny & Warm

CCL - Cold & Clear

R - Rainy

Location:

1.

Analysis	Weather	Temp (°F)	# of Bags/Bottles
W2	CC	65	1

CHAIN



23-01

Bear Mountain Dairy

BM-DW2

W

Ranch: Bear Mtn Ranch 1:30

Date: 12-27-23 pm

IW 35.206723, -119.054417

Location:

2.

Analysis	Weather	Temp (°F)	# of Bags/Bottles

CHAIN



23-01

Bear Mountain Dairy

W300-9

W

Ranch: Bear Mtn Ranch

Date: 12/27/23 130p

IW 35.190434, -119.021150

Location:

3.

Analysis	Weather	Temp (°F)	# of Bags/Bottles

Place CHAIN Label Here

Place additional labels on sample bags/bottles

Location:

4.

Analysis	Weather	Temp (°F)	# of Bags/Bottles

Place CHAIN Label Here

Place additional labels on sample bags/bottles

Location:

5.

Analysis	Weather	Temp (°F)	# of Bags/Bottles

Place CHAIN Label Here

Place additional labels on sample bags/bottles

Location:

6.

Analysis	Weather	Temp (°F)	# of Bags/Bottles

Place CHAIN Label Here

Place additional labels on sample bags/bottles

Chain of Custody Recording Log

	Signature	Company	Received Date/Time	Relinquished Date/Time	Laboratory Use Only
1st	Antonio Mora	Icon Ag		12-27-23 3:00 pm	Logged in By: Laboratory #
2nd	Domino	Icon Ag	12/28 5:30 AM	12/28 10:15 AM	
3rd	albert maitan jr.			12-28-23 10:15	
4th	Denelle		12-28-23 12:00		T 3362062